



Carbon

CathexisVision Carbon 5 Manual

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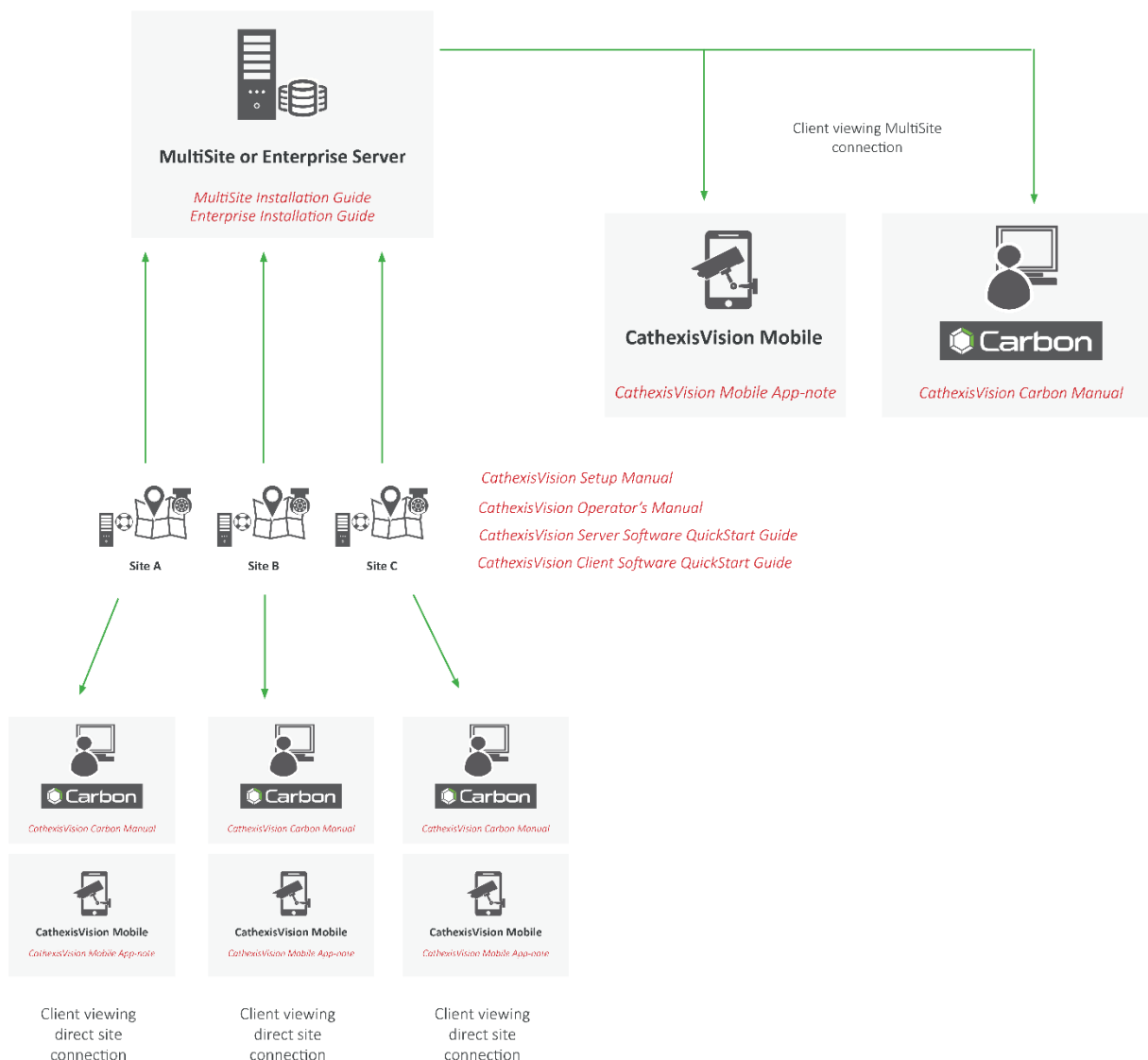
1. Introduction

This **CathexisVision Carbon 5 Manual** explains the installation and operating procedures a user might perform when using the Carbon 5 user interface to access:

- 👁️ a single site (a single CathexisVision site installation)
- 👁️ multiple sites (a CathexisVision **Multisite** installation)
- 👁️ multiple sites (a CathexisVision **Enterprise** installation)

1.1 Resources and System Components

The diagram below illustrates the basic components of Carbon 5, CathexisVision sites, Enterprise servers, MultiSite servers, and the CathexisVision Mobile app, along with the documents relevant to each.



For more information about Carbon 5, CathexisVision Mobile 5 app, or MultiSite and Enterprise products, consult the following documents, available on the Cathexis website (<http://cathexisvideo.com/>):

- *Carbon 5 Suite Release Notes*
- *Carbon 5 White Paper*
- *Carbon 5 Quick Reference Guide*
- *CathesisVision MultiSite 5 Installation Guide*
- *CathesisVision Enterprise 5 Installation Guide*
- *CathesisVision Mobile 5 App-note*
- *CathesisVision Mobile 5 Quick Guide*
- *CathesisVision Mobile 5 White Paper*

Consult the *CathesisVision Setup Manual* for information on setting up CathesisVision.

1.2 Supported Languages

- English,
- Croatian*,
- French*,
- German,
- Italian*,
- Portuguese*,
- Russian,
- Spanish*,
- Ukrainian*.

***Note:** These languages are supported in Carbon 4.2 and later.

1.3 Requirements and Specifications

1.3.1 General Requirements

- CathesisVision 2022.1 and later on the site to which the Carbon GUI is connecting.
- CathesisVision Carbon 3.1 or later.
- Windows 10 and later; Window Server 2019 and later.
- Minimum 8GB of RAM required.

1.3.2 License Requirements

License	Name	Description
None	Carbon	Local sites must be licensed as per existing requirements.

For information on the licensing requirements for MultiSite and Enterprise installations, consult the **CathexisVision Software Product Description and Licensing** document, available on the Cathexis website (<https://cathexisvideo.com>).

1.3.3 Ports to Open

Open the following ports on an NVR site for incoming connections from Carbon, CathexisVision, or CathexisVision Mobile	NVR site	TCP 30010 to 30100
Open the following ports on an Enterprise/MultiSite to allow incoming Carbon or site connections	MultiSite	TCP 28000 to 28019
	Enterprise	TCP 28000 to 28029

1.4 Features and Abilities

The available features depend on the connection being made from the Carbon interface.

<p>A single site connection allows the user to view/review cameras and other resources from one site only, navigating with the following tabs:</p>	<ul style="list-style-type: none"> • Monitoring • Databases • Maps • Configuration • Feature search • Archive player • Site monitors
<p>A MultiSite connection allows the user to view/review cameras and other resources from multiple sites, navigating with the following tabs:</p>	<ul style="list-style-type: none"> • Monitoring • Databases • Maps • Configuration • Feature search • Archive player • Site monitors • Monitors • Alarms
<p>An Enterprise connection allows the user to view/review cameras and other resources from multiple sites, navigating with the following tabs:</p>	<ul style="list-style-type: none"> • Monitoring • Databases • Maps • Configuration • Feature Search • Archive player • Site monitors • Dashboard • Hardware • Monitors • Alarms

1.4.1 Monitoring Tab

The Monitoring tab is where cameras can be viewed, reviewed, searched, and archived. A map can also be added to a panel in the Monitoring tab.

	Features/Abilities
General	<ul style="list-style-type: none"> • Create and save custom layouts, or use automatic options. • Enterprise connections allow the user to view cameras from multiple sites at one time in the Monitoring tab. • Layouts can display cameras in live and review mode simultaneously, and maps can be included in a saved layout. • The view and review tools drop-down menu is available using a mouse right-click or using the menu icon from the main panel.
Monitoring Options	<ul style="list-style-type: none"> • Resource view editor (customised resource view) • Monitoring tab settings • Live streaming stats
Monitoring Tab Settings	<ul style="list-style-type: none"> • Adjacent cameras: enable or disable • Show stream information • Show stream statistics • Left side panel: enable or disable • Right side panel: enable or disable
Layout Options	<ul style="list-style-type: none"> • Create and save custom templates • Add maps and/or cameras to a template • Auto layout • Black screen monitoring (BSM) • Monitoring using the side panel
View and Review Tools: Drop-down Menu	<ul style="list-style-type: none"> • Copy link • Send to monitor • Switch between live/review modes • Sync review • Pause/un-pause all • Export snapshot • Archive • Add bookmark • Bookmarks • Smart search • Advanced (connection logs) • Overlays • Dewarping • Video format • Video quality
Smart Search Tools	<ul style="list-style-type: none"> • Snap search • Motion quick search • Motion search • Feature search
Dewarping	<ul style="list-style-type: none"> • Disable • Single

	<ul style="list-style-type: none"> • Quad • Panorama single • Panorama double • Overview
Top Menu Bar Icons	<ul style="list-style-type: none"> • Templates • Action • Archive • Bookmark • Save layout • Cast • Event BSM (black screen monitoring) • Alarm BSM • Full screen
Action Icon	<ul style="list-style-type: none"> • Switch all feeds to live/review • Review all feeds/review all live feeds • Pause all feeds • Unpause all feeds • Clear all panels
Main Display Tools	<ul style="list-style-type: none"> • Interactive timeline • Date and time pop-up on timeline • Click to show/un-show PTZ control • Operate PTZ control • Area zoom on an Axis or Dahua PTZ camera • Click to mute/unmute camera • Navigate panel history • Minimise/maximise panel • Close panel • Adjacent Cameras • Review controls
Review Controls	<ul style="list-style-type: none"> • Select track (where available) • Go to beginning (Home)/end • Play/step forward/backwards • Adjust playback speed • Tags • Bookmarks • Live/Review mode switch • Sync review • Date/time panel
Review Controls: Compact Mode	<ul style="list-style-type: none"> • Play backwards. • Pause. • Play forwards. • Set tags. • Switch to live mode. • Open date/time panel.
Maps	<ul style="list-style-type: none"> • Place map in a template/layout. • View individual cameras in a new panel.

- Open a camera group from the map.
- View state of output and control output.
- View state of input.
- Open layout from the map.
- Navigate panel history.
- Reset view.
- Show/hide camera viewing areas.

1.4.2 Databases Tab

The databases section combines access to metadatabases (text) and video database recordings in one interface. The icons distinguish between the two types.

A unique metadatabase is created on the server for an integration. Carbon has configurable filters based on device event information and time stamping. The filtered event/s, and the associated video, are available for review in a new window. An archive can then be created and exported.

1.4.2.1 Metadatabase Interface

Abilities	
General	<ul style="list-style-type: none"> • View and filter options vary according to the integration or database selected. • Search results may be filtered then exported. The Export tool allows further selections to be made in the COLUMNS tab, where items may be unchecked.
Interface	<ul style="list-style-type: none"> • Custom view • View options (if available) • Sort by • Play mode. • Max rows • Database menu • Controls • Filter • Go to (exact time date) • Filter this page
Play mode	<ul style="list-style-type: none"> • Normal • Skip • Loop
Database Options	<ul style="list-style-type: none"> • Export • Manage reports • Settings
Controls (for pages)	<ul style="list-style-type: none"> • First. • Previous. • Next. • Last. • Refresh.

1.4.2.2 Video Database Interface

Abilities	
General	<ul style="list-style-type: none"> • Search results may be filtered then exported. • The Export tool allows further selections to be made in the COLUMNS tab, where items may be unchecked.
Interface	<ul style="list-style-type: none"> • Play mode. • Max rows. • Database menu. • Controls. • Go to (exact time/date). • Filter this page.
Database menu	<ul style="list-style-type: none"> • Export. • Settings.
Controls (for pages)	<ul style="list-style-type: none"> • First. • Previous. • Next. • Last. • Refresh.

1.4.3 Maps Tab

The Carbon GUI provides configurable site maps that feature multi-layered, hierarchical, interactive interfaces providing representation and control of a site and its resources.

Abilities	
General	<ul style="list-style-type: none"> • When viewed from the Maps tab, cameras will open as pop-ups over the map when double-clicked. • To view a map's camera in the Monitoring tab, drag and drop an icon into an empty display panel. • In addition to the map editing tools detailed below, the top panel tools allow users to align and distribute icons, and copy and paste properties/settings from one icon onto another. • All resources (with the exception of permission groups) may be added to the map as objects. However, the list below shows map objects that currently perform actions.
View Map	<ul style="list-style-type: none"> • Edit tool • Navigate (back/forward) • Reset view • Show/hide camera viewing area
Top panel tools	<ul style="list-style-type: none"> • Save map • Change settings (name and image) • Toggle select/pan • Select by object type • Distribute row • Distribute column

Map Editing Tools		<ul style="list-style-type: none"> Align row Align column Copy (icon) Paste Paste special Show grid
	Layers	<ul style="list-style-type: none"> Add layers (map/window)
	Basic	<ul style="list-style-type: none"> Opacity Rotating whole resource
	Icon	<ul style="list-style-type: none"> Change foreground/background colour Rotation Size Opacity
	Text	<ul style="list-style-type: none"> Colour Show: Auto/Show/Hide Wrap mode Size mode
	Camera	<ul style="list-style-type: none"> Viewing area: None/sector/manual/fisheye Colour (Viewing area) Opacity Fill mode Angle Size
	PTZ	<ul style="list-style-type: none"> Add PTZ zone Add PTZ preset Colour Opacity
	Input	<ul style="list-style-type: none"> State unknown: foreground/background colour State high: foreground/background colour State low: foreground/background colour
Map Objects	Output	<ul style="list-style-type: none"> Click action: None/On/Off/Pulse/Toggle State unknown: foreground/background colour State on: foreground/background colour State off: foreground/background colour
	Available Objects (perform actions)	<ul style="list-style-type: none"> Cameras PTZ camera Fisheye camera Camera group Inputs Outputs Maps Layouts
	Output Actions	<ul style="list-style-type: none"> Switch on Switch off Pulse Toggle

1.4.4 Configuration Tab

The Configuration tab allows users to view and organise resources, users, roles, and permissions.

- The Configuration Tab can be used to modify access rights.
- Access levels are renamable in Carbon and are called Roles.
- New users may be added on Enterprise connections.
- For sites connections, new users must be added on the CathexisVision client/server software.

Home	<ul style="list-style-type: none"> • Manage LDAP server settings (Enterprise connections) • Configure push notifications (Site connections) 	
Resource management	<ul style="list-style-type: none"> • View all resources • Add or edit camera groups • Add or edit VMS event groups • Delete maps • Auto generated or manually configured resources tree options 	
User Management	Users	<ul style="list-style-type: none"> • Create new user (Enterprise installation only) • Change user details • Change permissions for a single user • Add resources to a user • Change global permissions for a user (Configuration, Maps) • Assign a role to a user (inherited roles) • Remove a role from a user
	Roles	<ul style="list-style-type: none"> • Add a new role • Modify a role • Add resources to the role • Change global permissions for the role (Configuration, Maps) • Add another role to the role (inherited roles)
	Permissions	<ul style="list-style-type: none"> • View • Review • Export • PTZ • Presets • Control (output/map) • Edit (maps) • Manage views (metadatabase) • Manage reports
	Resources	<ul style="list-style-type: none"> • Cameras • Feature databases • Inputs. • Outputs. • Resource group. • Layouts. • Maps. • Site monitors • VMS events.

Permission Groups		<ul style="list-style-type: none"> • Video databases. • Metadatabases. • Monitors (MultiSite and Enterprise)
	Groups	<ul style="list-style-type: none"> • Add a permission group. • Edit a permission group. • Choose Domain, and Type of Resource. • Available to domain only, or global. • Add resources.
	Resource	<ul style="list-style-type: none"> • Cameras. • Inputs. • Outputs. • Video databases. • Metadatabases. • Maps.

1.4.5 Feature Search

General		<ul style="list-style-type: none"> • Upload or select an image of a person or vehicle to search for similar images. • Images can be 'sent' from the Monitoring tab by select Smart search/Feature search in the context (right-click) menu.
Query parameters	Site	<ul style="list-style-type: none"> • Select from multiple sites (Enterprise only)
	Search for	<ul style="list-style-type: none"> • Person • Vehicle
	Search day	<ul style="list-style-type: none"> • Select date
	Maximum matches	<ul style="list-style-type: none"> • Not set • 10 • 100 • 1000
	Time filter	<ul style="list-style-type: none"> • 00:00 to 23:59
	Camera filter	<ul style="list-style-type: none"> • All cameras • Choose camera
Feature area		<ul style="list-style-type: none"> • Load or paste images • Select/isolate a region
Review		<ul style="list-style-type: none"> • Choose camera • Copy camera into feature area • Select track • Play backwards • Pause • Play forwards • Tags • Open archive builder
Search results	Select tool	<ul style="list-style-type: none"> • Select all • Clear all • Select/deselect camera

	View	<ul style="list-style-type: none"> • Standard • By camera
	Sort by	<ul style="list-style-type: none"> • Score • Time • Ascending/descending
	Thumbnail Size	<ul style="list-style-type: none"> • Small • Medium • Large
	Aspect ration	<ul style="list-style-type: none"> • Standard • Tall • Wide
	Minimum Score	<ul style="list-style-type: none"> • 0 to 50

1.4.6 Archive Player

General		<ul style="list-style-type: none"> • The archive player is available as a separate app, but can also be used from the Carbon interface.
Folder view (browse)	Folders	<ul style="list-style-type: none"> • Up • Browse • Back (home screen)
	Sort	<ul style="list-style-type: none"> • Alphabetical • Newest first • Oldest first
Home screen view	View options	<ul style="list-style-type: none"> • Clips • Transactions
	Top panel tools	<ul style="list-style-type: none"> • Clear all • Show all • Sequential mode • Template
	Review tools	<ul style="list-style-type: none"> • Timeline slider • Home • Step backwards • Play backwards • Pause • Play forwards • Step forwards • Adjust playback speed • Skip 10s forwards/backwards • Start/end tag • Archive • Close • Adjust time and date • Calendar tool

1.4.7 Site Monitors

General	<ul style="list-style-type: none"> • Controllable from Carbon user interfaces (including the mobile device) • View live streams as shown by the site monitor in the controller tab • Multiple-camera synchronised review supported • Corridor and wide aspect ratio cameras supported • Virtual monitor walls to mimic the positions of physical monitors • Local site connection only. The site monitor is unable to view remote sites. • GPU decoding supported by site monitor • GPU-accelerated display in site monitor • Map-driven site navigation in site monitor tab
Resources panel	<ul style="list-style-type: none"> • Standard view • Server view • Custom view
Layouts panel	<ul style="list-style-type: none"> • My layouts • Global layouts
PTZ Panel	<ul style="list-style-type: none"> • Open iris • Close iris • Auto iris • Focus near • Focus far • Auto focus • Manual control panel • Zoom in/out • Presets
Map	<ul style="list-style-type: none"> • View
Templates	<ul style="list-style-type: none"> • Choose from custom or standard
View	<ul style="list-style-type: none"> • Monitors • Wall • Select system
Tools	<ul style="list-style-type: none"> • Clear all • Identify • Switch to live • Adjacent camera viewing
Manage video walls	<ul style="list-style-type: none"> • Create new wall • Edit wall

1.4.8 Dashboard Tab (Enterprise Only)

The Dashboard tab allows the user to view information about sites, servers, and cameras.

This tab allows the user to locate the time and place of a disconnected camera or server easily. The information can be used to search footage from the monitor tab around the time of the incident.

		Features/Abilities
	General	<ul style="list-style-type: none"> • Status of resources is presented in a summary format. • This is represented visually as well as in the table. • A colour code is used to represent status. • Items in the table can be selected to open a 24-hour view.
	Visual Summary/Infographic	<ul style="list-style-type: none"> • Sites. • Servers. • Cameras.
	Status on Visuals	<ul style="list-style-type: none"> • Green: sites, servers, cameras up. • Red: sites, servers, cameras, down. • Grey: status unknown. • Orange: packet loss.
	Status on 24-hour Chart	<ul style="list-style-type: none"> • Green: cameras up • Brown: cameras up and down • Red: cameras down. • Green/yellow: cameras up with packet loss. • Dark green: cameras up and status unknown. • Grey: camera status unknown.

1.4.9 Hardware Tab (Enterprise Only)

The Hardware tab allows the user to view specifications and addresses of cameras, and specifications and status of disks and servers.

		Features/Abilities
Cameras Tab	General	<ul style="list-style-type: none"> • Various sort options are available to change how items appear in the main display. • Once items have been sorted, the Export tool can be used to generate reports. • The SETTINGS and COLUMNS tabs on the export tool can be used to adapt the appearance of the final report further.
	List Display Options	<ul style="list-style-type: none"> • Single site or multi-view • Sort by category • Sort table alphabetically or numerically
	Sort by Category Options	<ul style="list-style-type: none"> • Camera manufacturer • Camera model • Camera firmware
	Main Panel Columns	<ul style="list-style-type: none"> • Site • Server

		<ul style="list-style-type: none"> • Manufacturer • Model • Firmware • Name • Serial Number • MAC Address
Databases Tab	List Display Options	<ul style="list-style-type: none"> • Single site or multi-site view • Sort table alphabetically or numerically
	Main Panel Columns	<ul style="list-style-type: none"> • Name • Site • Server (name) • Capacity • Tracks • Recording duration • Status • Slices
Disks Tab	List Display Options	<ul style="list-style-type: none"> • Single site or multi-site view • Sort by category • Sort table alphabetically or numerically
	Sort by Category Options	<ul style="list-style-type: none"> • Disk manufacturer • Disk model • Disk firmware
	Main Panel Columns	<ul style="list-style-type: none"> • Health • Site • Server • Manufacturer • Model • Rotation • Capacity • Firmware • Serial number • Power-on years • Temperature
Servers Tab	List Display Options	<ul style="list-style-type: none"> • Single site or multi-site view • Sort by category • Sort table alphabetically or numerically
	Sort by Category Options	<ul style="list-style-type: none"> • Motherboard • CPU • OS family • OS version • SW version
	Main Panel Columns	<ul style="list-style-type: none"> • Site • Server • Machine • Network interfaces • Motherboard

		<ul style="list-style-type: none"> • CPU • CPU speed • Memory • Serial number • IO board • OS family • OS version • SW version • Site role (slave, master, or unknown) • Time • Time zone • Master time • Enterprise time difference
--	--	---

1.4.10 Monitors (MultiSite and Enterprise)

		Features/Abilities
General		<ul style="list-style-type: none"> • The Monitors feature allows for monitors to be added to Enterprise or MultiSite domains. • The CathesisVision Carbon Monitor (also known as the Video Wall Manager) is a separate desktop application.
Set Up Monitor	View Options	<ul style="list-style-type: none"> • Monitors • Video Wall
	Options: Basic Live Streaming Control	<ul style="list-style-type: none"> • Clear • Identify • Mimic video mode: No video, Single frame, Stream • Maximise or restore panels
	Manage View (Camera Panels)	<ul style="list-style-type: none"> • Change template • Add or change cameras (resources) • Add multiple cameras using auto layout selection • Add multiple cameras using auto add selection • Open camera group • Open saved layout • Open saved map
Manage Video Walls	Create Video Wall	<ul style="list-style-type: none"> • Add video wall • Add resources to video wall • Delete video wall
	View Video Wall	<ul style="list-style-type: none"> • Quick access to single monitor control
	Control Monitor	<ul style="list-style-type: none"> • Add or change a monitor camera • Copy a layout into a monitor • Add a camera group to the monitor
	Edit Video Wall	<ul style="list-style-type: none"> • Adjust the size and position of mimic monitors within the Video Wall

1.4.11 Alarms (MultiSite and Enterprise)

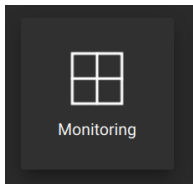
		Features/Abilities
General		<ul style="list-style-type: none"> Alarms are available in MultiSite and Enterprise installations. There are two options: Open alarms and Alarm report.
Open Alarms	Filters	<ul style="list-style-type: none"> Alarms listed in the Open alarms panel can be filtered according to the following parameters: <ul style="list-style-type: none"> Sync filters Text filter Open alarms belonging to the user A specified user A specified domain A specified alarm Critical priority alarms High priority alarms Medium priority alarms Low priority alarms New alarms Assigned alarms Active alarms Alarm tags
	Open Alarms	<ul style="list-style-type: none"> Open alarms can be sorted by the following categories: <ul style="list-style-type: none"> Alarm priority Key Time Alarm Priority Domain Description Owner State Tags Trigger time Arrival time Alarms can be previewed.
	Right-click Options	<ul style="list-style-type: none"> Right-clicking an alarm entry and selecting Handle Alarm will open the Alarm Viewer. <ul style="list-style-type: none"> Information about the alarm is displayed at the top of the viewer. The layout of the Alarm viewer is similar to the Monitoring Tab. Monitoring area: <ul style="list-style-type: none"> Resources, Bookmarks, Layouts, or Cameras with Activity. Select template, open template editor, or remove template. Actions: Switch all feeds to live, review all live feeds, pause/unpause all feeds, or clear all panels. Open Archive builder. Open or add bookmarks. Save a layout.

	<ul style="list-style-type: none"> ▪ Send/cast a layout to a monitor. ▪ Open Black Screen Monitor. ▪ Make monitors panel full screen. ▪ Settings Menu: Resource view editor, Monitoring tab settings, Live streaming stats. ○ Alarm Information: <ul style="list-style-type: none"> ▪ Switch between Resources and Procedures. ▪ Search alarms. ▪ Add a camera to the viewing panels ▪ Alarm information will be listed. • Assign to Me <ul style="list-style-type: none"> ○ Assign the alarm to the current users. ○ Remove one’s ownership of the alarm. • Close <ul style="list-style-type: none"> ○ Close alarm. • Tags <ul style="list-style-type: none"> ○ Add a tag to an alarm. ○ Select a tag: False alarm, Thief, or other.
<p>Further Options</p>	<ul style="list-style-type: none"> • Choose columns <ul style="list-style-type: none"> ○ Key ○ Alarm ○ Trigger time ○ Domain ○ Owner ○ Tags ○ Time ○ Priority ○ Arrival time ○ Description ○ State • View new alarms <ul style="list-style-type: none"> ○ Filter new alarms ○ Collapse new alarms panel • Live preview <ul style="list-style-type: none"> ○ Filter new alarms ○ Collapse live preview panel ○ Change number of columns in live preview panel ○ Icon shows time elapsed since alarm began • Table view lock • Scroll up and down table
<p>Alarm Report</p>	<p>Filters</p> <ul style="list-style-type: none"> • Alarms listed in the Alarms panel can be filtered according to the following parameters: <ul style="list-style-type: none"> ○ Templates ○ Text filter ○ Specified time period ○ A specified user ○ A specified domain

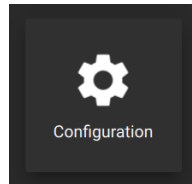
		<ul style="list-style-type: none"> ○ A specified alarm ○ Alarm tags ○ Priorities ○ Alarm states ○ Set maximum number of results shown ● Collapse filters panel ● Reset entire filter panel to default state
	Alarms	<ul style="list-style-type: none"> ● Open alarms can be sorted by the following categories: <ul style="list-style-type: none"> ○ Key ○ Time ○ Alarm ○ Priority ○ Domain ○ Description ○ Owner ○ State ○ Tags ○ Trigger time ○ Arrival time ● Alarm Viewer. ● Add tags.
	Further Options	<ul style="list-style-type: none"> ● Refresh alarm report ● Choose columns <ul style="list-style-type: none"> ○ Key ○ Alarm ○ Trigger time ○ Domain ○ Owner ○ Tags ○ Time ○ Priority ○ Arrival time ○ Description ○ State ● Export <ul style="list-style-type: none"> ○ PDF or CSV ○ A3 or A4 ○ Page orientation (portrait or landscape) ● Manage report templates <ul style="list-style-type: none"> ○ Edit template ○ Search report templates ○ Add new template ● Scroll up and down table

1.5 Navigating This Document

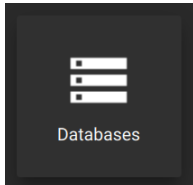
Click the links below:



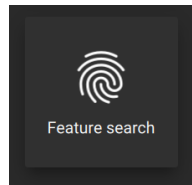
[5. Monitoring Tab](#)



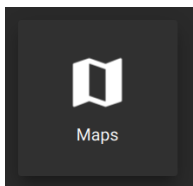
[8. Configuration Tab](#)



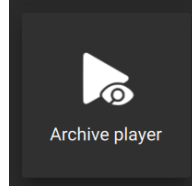
[6. Databases Tab](#)



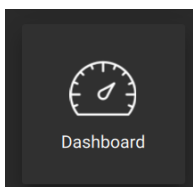
[9. Feature Search Tab](#)



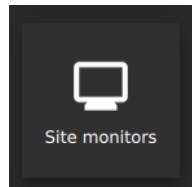
[7. Maps Tab](#)



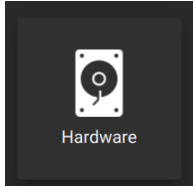
[10. Archive Player Tab](#)



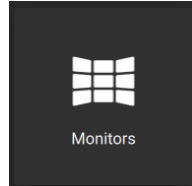
[12. Dashboard Tab](#)



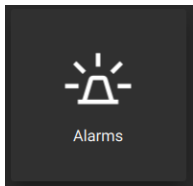
[11. Site Monitors Tab](#)



[13. Hardware Tab](#)



[14. Monitors Tab](#)

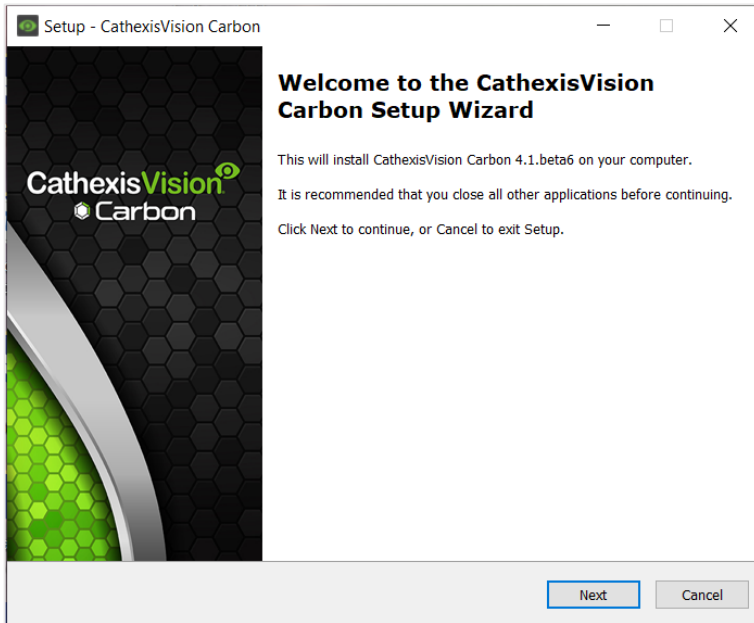


[15. Alarms Tab](#)

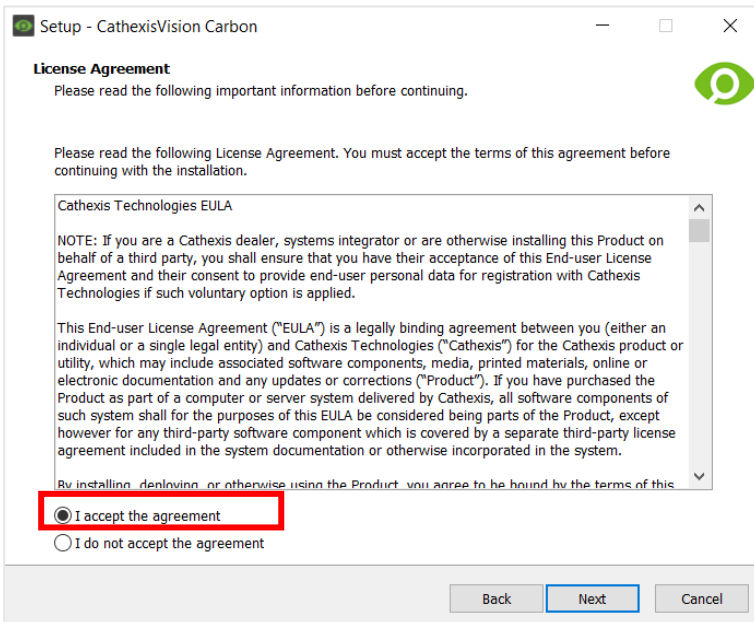
2. Installation of Carbon

Download the CathexisVision Carbon desktop installation software from the Cathexis website at <https://downloads.cathexisvideo.com/> or contact Support at support@cathexisvideo.com

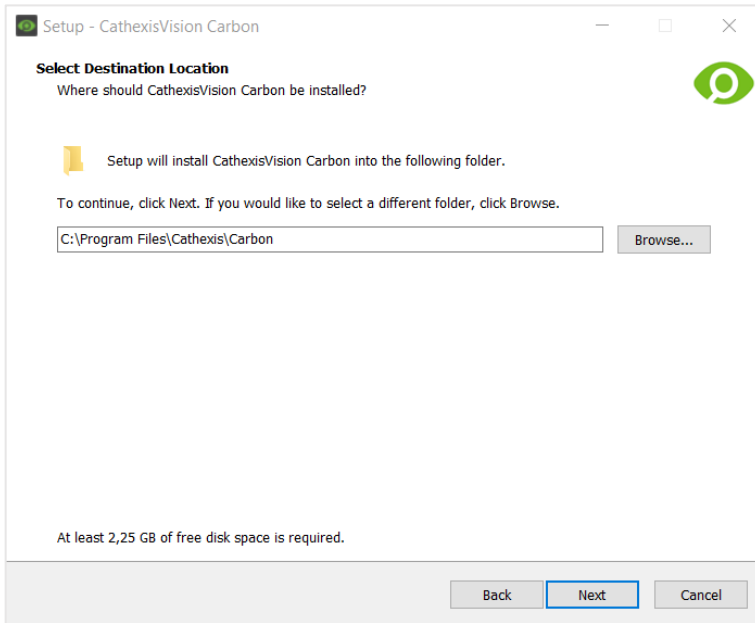
Once the software has been downloaded on the required client unit, run the installation, which will present the setup wizard. Follow the steps below.



1. Read the information.
2. Click **Next**.

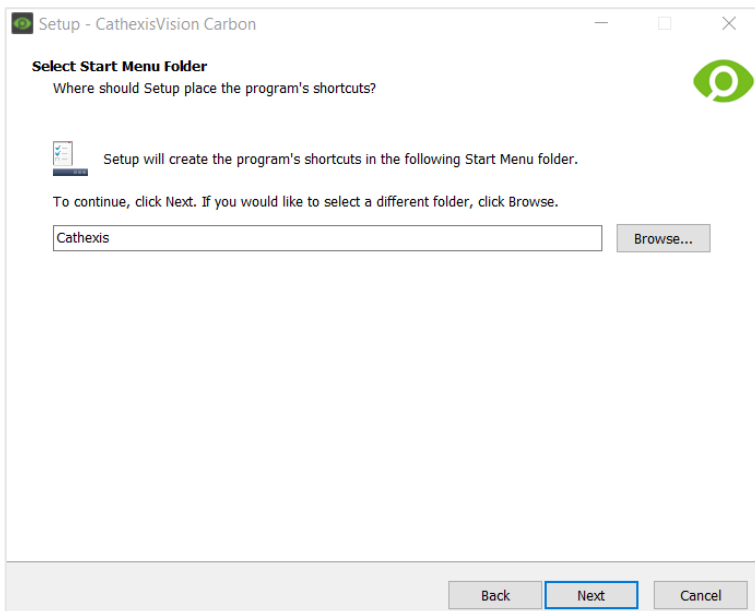


3. Read the agreement. Select the option to **accept**.
4. Click **Next**.



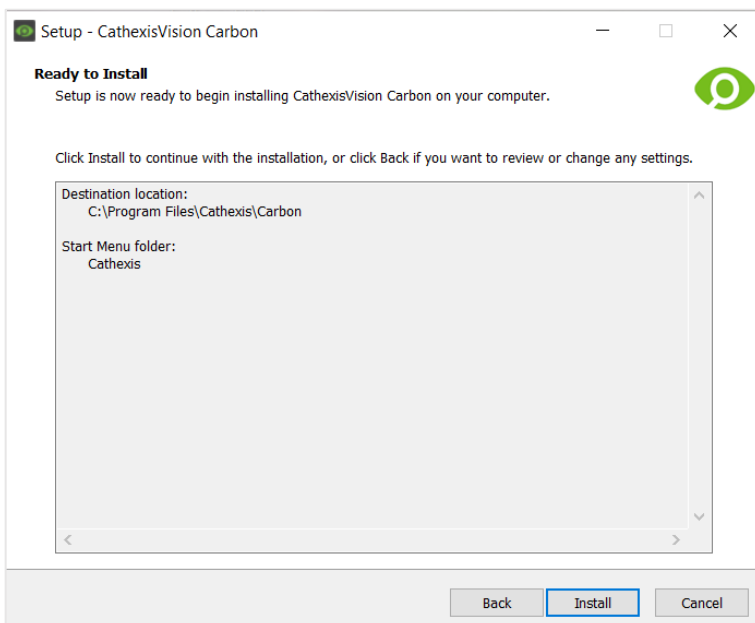
5. Select the folder into which CathesisVision Carbon will be installed.

6. Click **Next**.



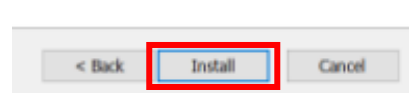
7. Select the Start Menu folder where the Carbon shortcuts will be placed.

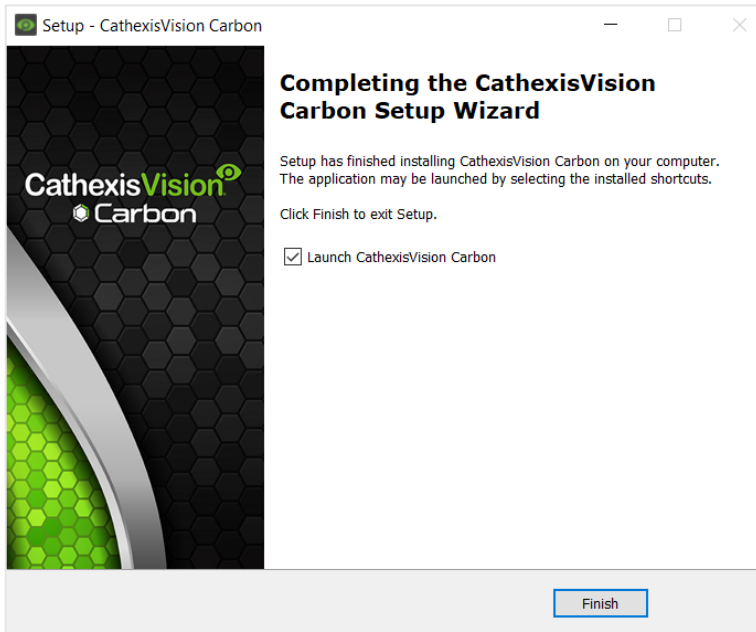
8. Click **Next**.



9. Review the installation settings.

10. Click **Install**.

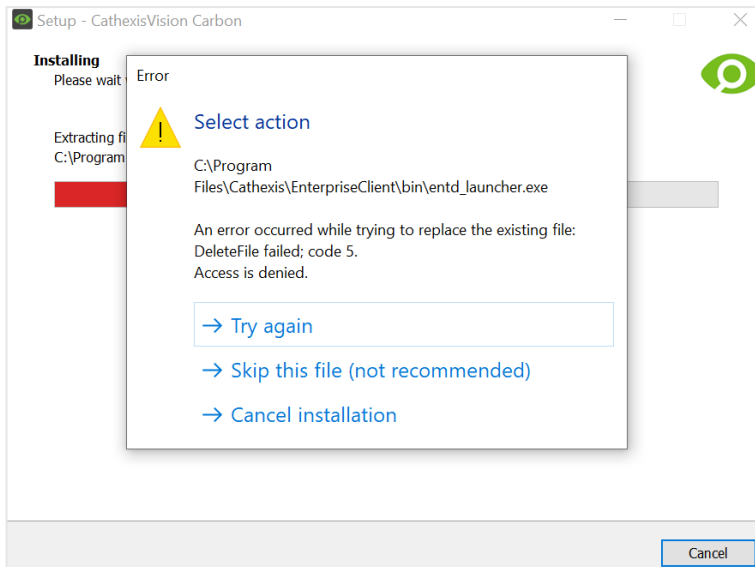




11. When installation is complete, click **Finish**.

2.1.1 Code 5 Error During Installation

If a Code 5 error occurs, resolve it by making sure the **app and launcher are closed**.



To do this from the Windows task manager:

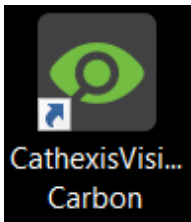
1. Press Ctrl+Alt+Delete.
2. Select Task manager.
3. Search the options and close related applications.
4. Then return to the error message and select **Try again**.

3. Adding Accounts

This chapter covers how to add a new account type:

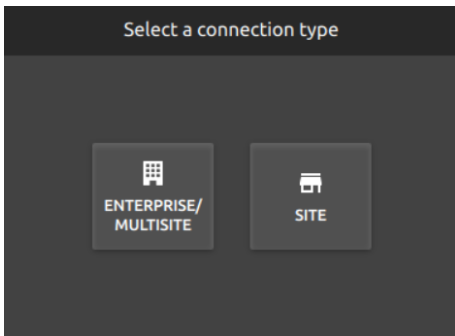
- [Site connection \(3.2\)](#)
- [MultiSite connection \(3.3\)](#)
- [Enterprise connection \(3.4\)](#)

3.1 Add a New Account Type (Initial Connection)



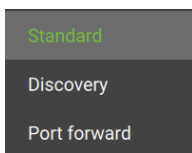
1. Open Carbon by **double-clicking** the desktop icon.

After opening the app for the first time, the new account type screen will open.




2. Choose an **Enterprise / MultiSite** or **Site** connection type.
This will allow the user to add a new Enterprise, MultiSite or Site, and will take the user to the configuration screen.

3.2 Add a Site Connection



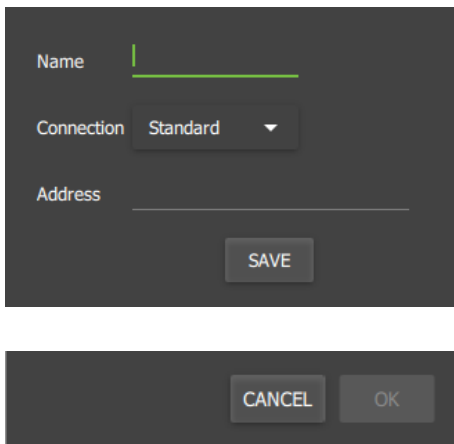
There are three types of site connections: [Standard](#), [Discovery](#) or [Port Forward](#).

The table below describes the differences between them.

Connection	Description
Standard 	<p>A Standard connection refers to a direct network connection, where the viewing station has a direct connection to the recording unit/s or site.</p> <p>Address: This is the IP address of the master unit.</p>
Discovery	<p>A Discovery connection is to be used in the setup of a failover solution. If the site master is failed over and connection to the site master is lost, the client viewer can discover the IP address of the site master unit. This means that if the IP address of the site master changes, the client viewer will be able to rediscover the IP address and not lose its connection.</p>

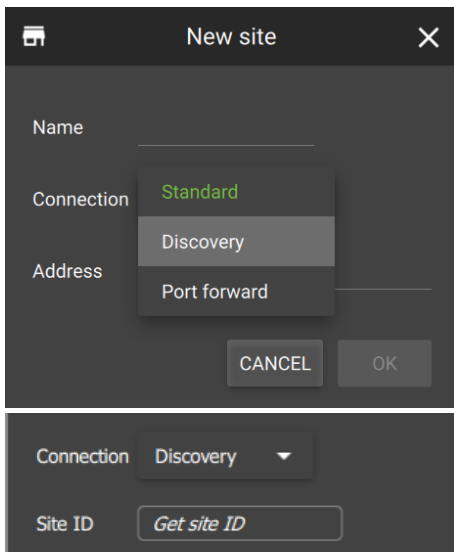
<p>Port Forward</p>		<p>Port forwarding allows a remote client viewer to connect to a site from outside the local area network. The router is configured to route the inbound client connection to the site master unit. The master unit thus acts as a proxy to reach all the servers that make up the site.</p> <p>Address: This is the IP address/host name (FQDN) of the master unit.</p>
----------------------------	--	--

3.2.1 Add a Site: Standard Connection



- Type the site **Name** and **Address** supplied by the administrator.
(Address: This is the IP address of the master unit.)
- Select the **Standard connection type** from the drop-down menu.
- Click **SAVE** (or **OK**, depending on whether this is an initial or subsequent login).

3.2.2 Add a Site: Discovery Connection



- Enter the site **name**.
- Click the Connection **drop-down menu** to see options.
- Click **Discovery**.
- The bottom row will now say "Site ID".
- Click the **field** where the text reads "Get site ID".

This starts the process to fetch the Site ID from the site master unit.

A new dialogue will open ("Setup site discovery").

→ Fill in the **Site address**, **Login**, and **Password** provided by the administrator.

→ Click **NEXT>>**

The Site name and Site ID will be displayed.

→ Click **OK**.

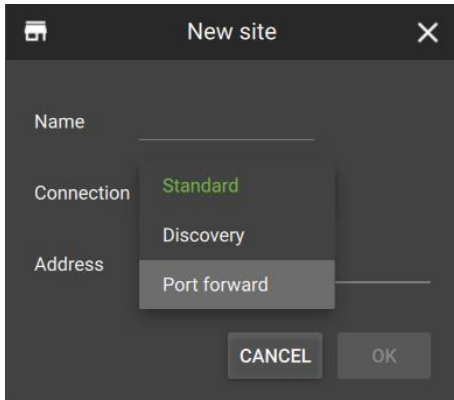
The configured site information will be displayed.

→ Click **OK**.

3.2.3 Add a Site: Port Forward Connection



In port forwarding, the master unit acts as a proxy to reach all servers that make up the site.



→ Select **Port forward** from the drop-down list.

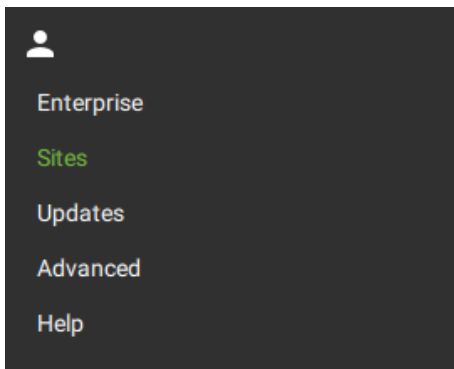
→ Enter the **name** into the field.

→ Enter the **address of the site master unit**.

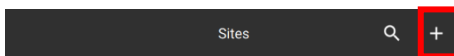
→ Click **OK**.

3.2.3 Add a Site: Subsequent Logins

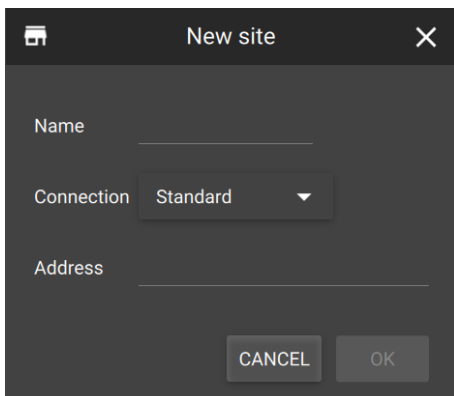
The process for adding a site subsequent to the initial setup is very similar.



→ Click **Sites** on the menu at the top left-hand side.



→ Click the **plus icon**.



This will open the **New site** dialogue box.

Follow the steps outlined above to add a new site connection:

[3.2.1 Add a Site: Standard Connection](#)

[3.2.2 Add a Site: Discovery Connection](#)

[3.2.3 Add a Site: Port Forward Connection](#)

3.3 Add a MultiSite Connection

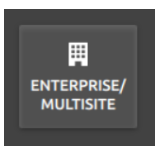


Consult the *CathexisVision MultiSite 4 Installation Guide* for more information on downloading and installing MultiSite.

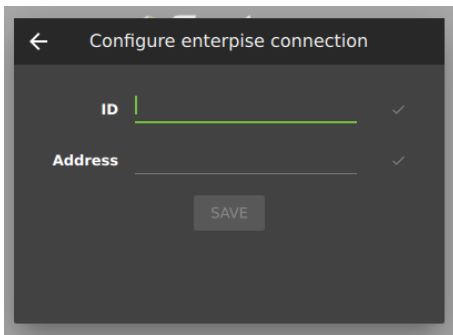
Follow the steps below to:

- make the [first connection](#) to a MultiSite through Carbon
- [Add CathexisVision sites](#) to the MultiSite connection.

3.3.1 Configure MultiSite Connection



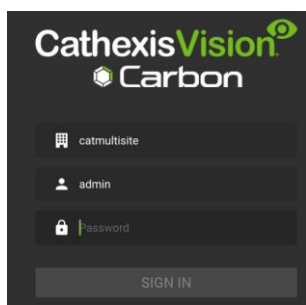
After opening Carbon for the first time, select the **Enterprise/MultiSite** connection type.



- Enter an **ID** for the MultiSite connection.
- Enter the **IP address** of the MultiSite server.
- Click **SAVE**.

The user may then log in to MultiSite.

3.3.1.1 MultiSite Login



→ Enter the credentials for **login and password** supplied by the administrator.

Note: The default login for MultiSite is
Username: admin
Password: 123456

→ Click **SIGN IN**.

3.3.2 Add a Site to MultiSite

To add a site (i.e. register a site with a MultiSite server):

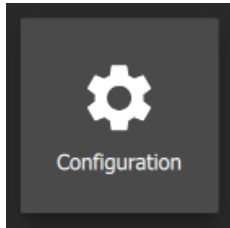
1. The new site must be [added](#) to the MultiSite root domain.
2. The user must initiate a [token](#) from MultiSite.
3. This token must then be [entered](#) on CathexisVision client or server software.

3.3.2.1 Add New Site to Root Domain

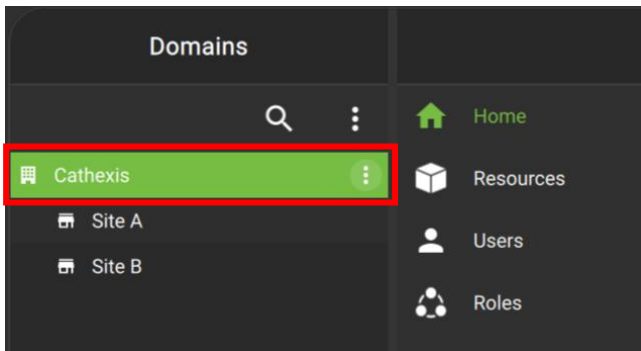
In MultiSite, all sites are attached to the root domain (as opposed to Enterprise, which features a domain tree).



→ Log in to MultiSite through Carbon.



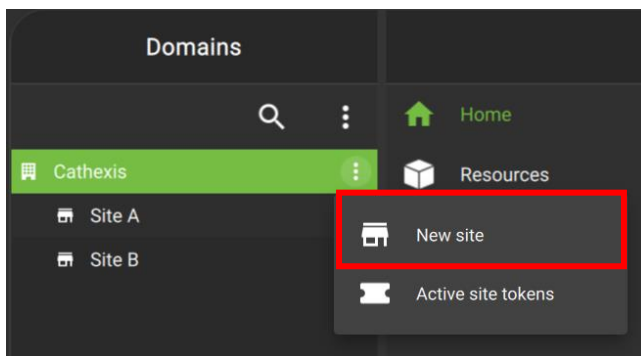
→ From the Carbon home screen, click the **Configuration** icon to open a new tab.



→ Click on the root domain. This action will highlight the root domain in green.

→ Hover the mouse over the right of the highlighted area. The menu icon will appear.

→  Click the menu icon.

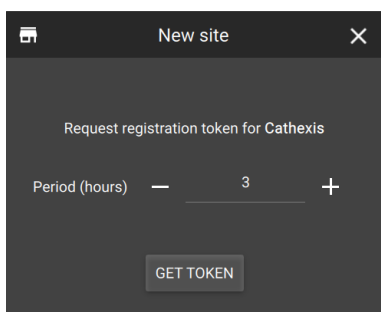


→ Click **New site** to generate a token to add a new site.

The **New site window** will open.

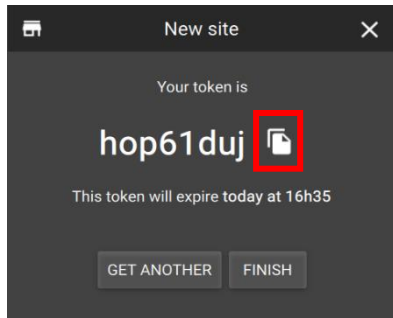
3.3.2.2 New Site: Get Token

In the **New site window**:




→ Select the period (in hours) for which the token will be valid.

→ Click **GET TOKEN**.

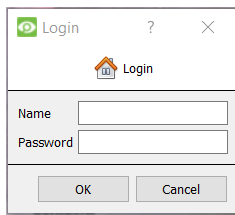


→ Click the **copy icon** to copy the token to the clipboard.

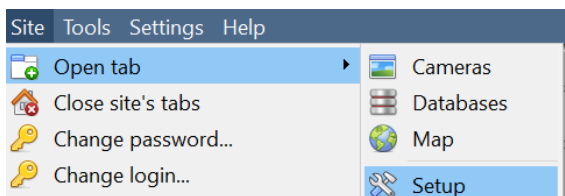
→ Click **FINISH**.

 **Note:** Clicking FINISH will complete the process of generating the token.


3.3.2.3 Connect CathexisVision Site to MultiSite



→ **Log in** to the CathexisVision client or server interface.




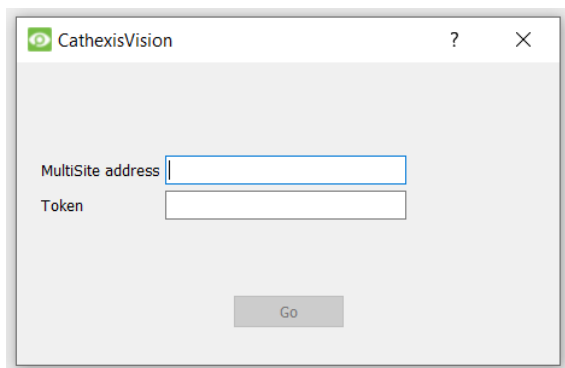
→ Navigate to General setup by following the path: **Site / Open tab / Setup**.

→  Click the **Enterprise/MultiSite icon** on the menu on the left.



→ From the Enterprise/MultiSite panel, click **New** under the MultiSite heading.

 **Note:** Each site that is connected to a MultiSite must have a unique name. If a site being added has the same name as a previously-added site, an error message will appear.

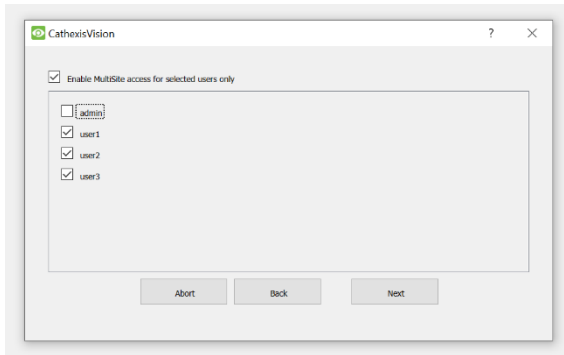


The administrator will enter or provide the **address**. (This is the IP address of the MultiSite server.)

→ Enter the **MultiSite address**.

→ Enter the **token number**.

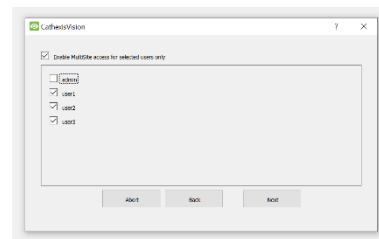
→ Click **Go**.



The option to **Enable MultiSite access for selected users** will appear.

Enable MultiSite access for selected users only: If this option is enabled, the selected users (configured in CathexisVision) will be given access to the CathexisVision system through Carbon (MultiSite connection).

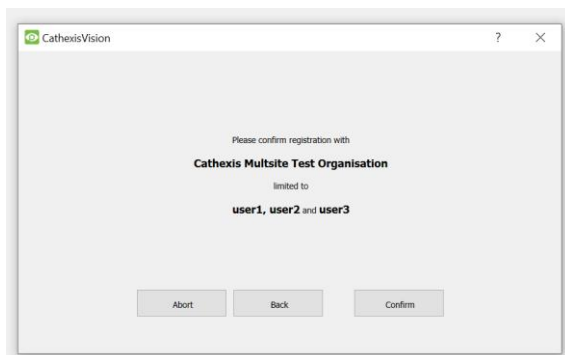
- If choosing to enable MultiSite access for selected users only, check the box.
- Then, check the boxes to select users. (In the following example, “user1”, “user2” and “user3” have been selected.)



→ Click **Next**.

A window will open.

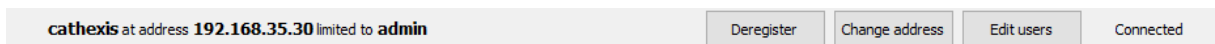
→ To confirm the site registration, click **Confirm**.



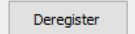
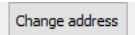
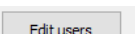
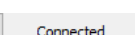
A window will pop up, confirming registration.



The Enterprise/MultiSite management area will now show that the site has been registered and a connection has been established.



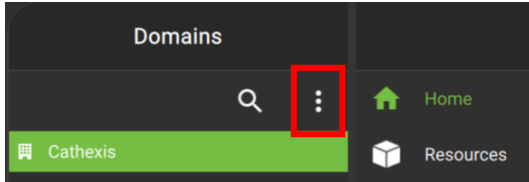
MultiSite registration status: buttons

-  To deregister the site from the MultiSite server, click **Deregister**.
-  Click to change the address.
-  To edit users, click **Edit users**.
-  The end of the row indicates the connection status.

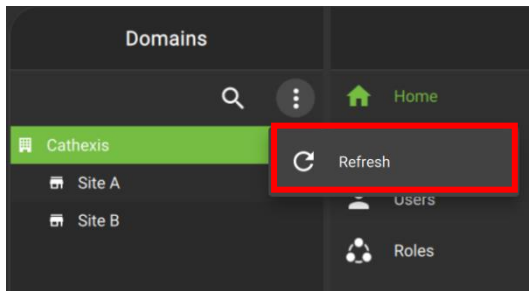
3.3.2.4 View Added Site in Carbon

To view the site, return to the Configuration tab in Carbon. Once refreshed, the site will appear on the folder tree.

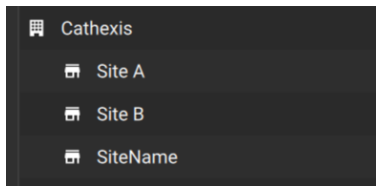
To refresh:



→ Click the horizontal ellipses (menu) icon.



→ Click **Refresh**.

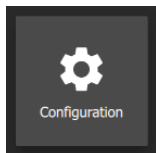


The newly-added site will appear in the folder tree.

3.3.2.5 Complete Configuration of Site Connection to MultiSite in Carbon

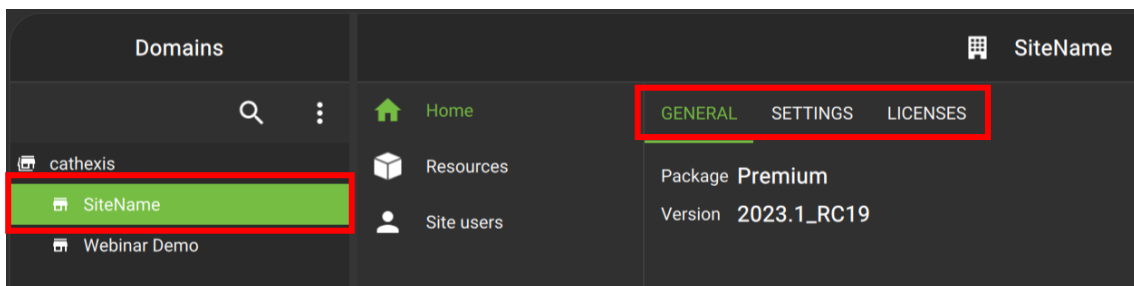


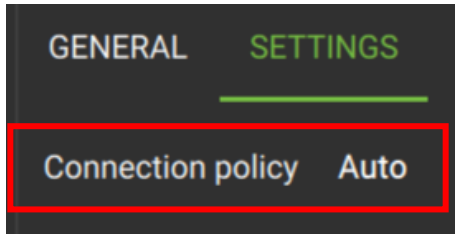
Note: Complete the configuration of the site’s connection to a MultiSite in the Configuration tab of Carbon. See [8. Configuration Tab](#) for more information on using this tab.



→ Click **Configuration** to open a new tab from the home screen.

→ Select the site in the Domains panel on the left. The right configuration panel will show three tab options: General, **Settings** and Licenses.



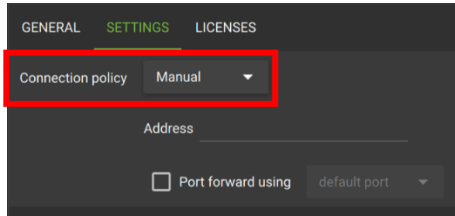


→ Select the Settings tab.

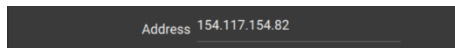
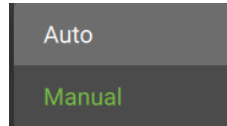
Under Settings, the user may edit the site's connection policy.

→ Click anywhere in the field.

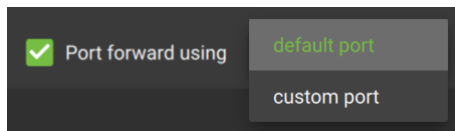
The options for editing will appear.



→ **Connection policy:** Choose between Manual and Auto. See table below for information on different connection types.




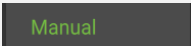
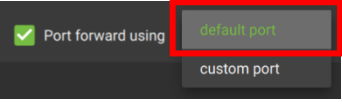
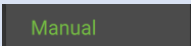
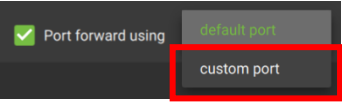
→ **Address (if Manual connection policy is selected):** Enter the IP address.



→ **Port forward using:** Choose between default port and custom port.



→ Click the **save icon** to save changes.

Connection	Description – cases when connection type is used
<p>Auto</p> 	<p>The MultiSite can determine the IP for the site by looking at the source address of the connection.</p> <p>Site → provides IP to → MultiSite (Carbon can get this IP)</p>
<p>Manual (port forwarding – default port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and use the default port</i>.</p> <p>Site → Firewall → different IP to site → <i>Manual port forwarding with default port if configured on firewall (30011 to 30011 on site)</i></p> 
<p>Manual (port forwarding – custom port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and specify the port in the firewall which is being forwarded</i>.</p> <p>Site → Firewall → different IP and incoming port for site → <i>Manual port forwarding with custom port (custom port to 30011 on internal site)</i></p> 

3.4 Add an Enterprise Connection

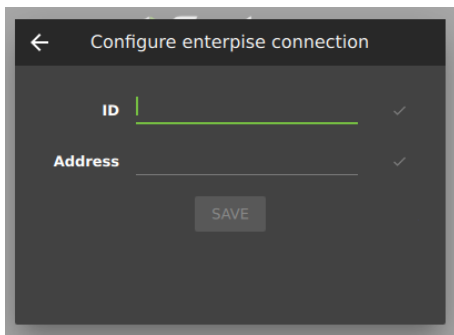
Follow the steps below to make the first connection to an Enterprise and to add CathexisVision sites.



→ After opening Carbon for the first time, choose **Enterprise / MultiSite**.

This will open a configuration dialogue box.

3.4.1 Configure Enterprise Connection



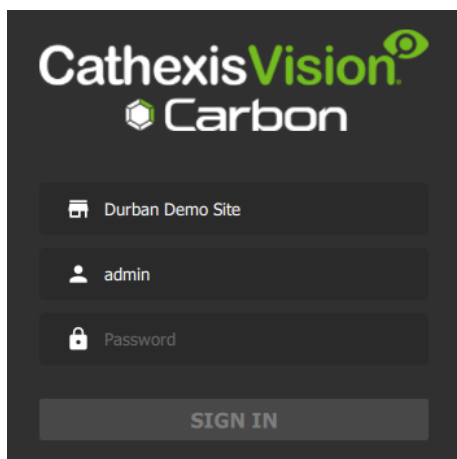
→ Enter an **ID** for the Enterprise connection.

→ Enter the **IP address** of the Enterprise server.

→ Click **SAVE**.

3.4.1.1 Enterprise Login

Start by logging in.



→ Enter the credentials for **login and password** supplied by the administrator.

Note: The default login for Enterprise is

Username: admin
Password: 123456

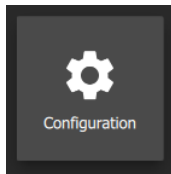
→ Click **SIGN IN**.

3.4.2 Add a Site to Enterprise

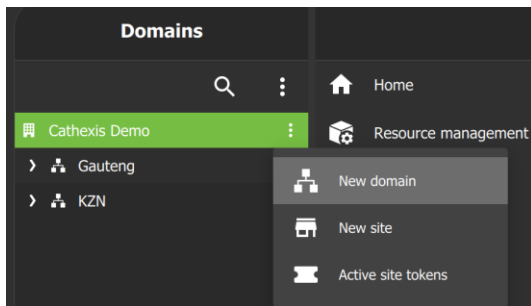
To add or connect to a CathexisVision site from the Enterprise, the user should first add or organise domains (groups) in the Enterprise interface.

The individual sites will be need to be arranged in groups or domains on a folder tree. Add these in the configuration menu.

3.4.2.1 Add Domain



→ Click **Configuration** to open a new tab from the home screen.



→ Click on the **root folder** in the folder tree.

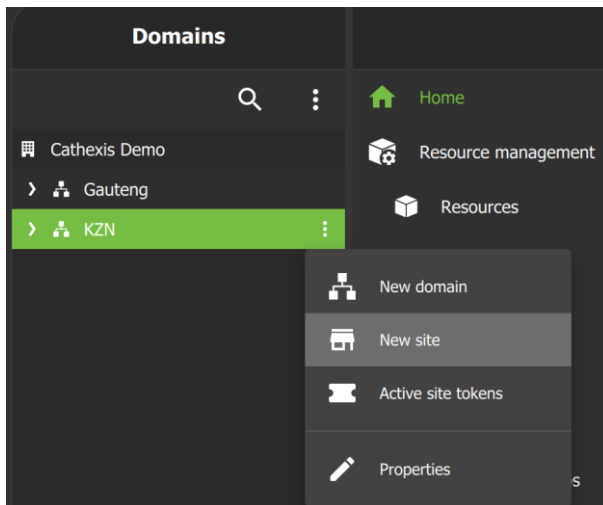


→ **Hover** using the mouse then click the menu icon.

→ Click on **New Domain** to extend the tree structure.

3.4.2.2 Get Token

To add a site, a user must first initiate a token from Carbon. This token can be entered on CathexisVision client or server software.

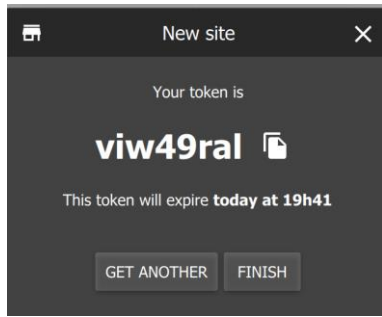



→ To begin adding a site, **select the relevant domain or group** to which the site will belong.




→ **Hover** over the folder tree to see the **menu icon**. Click to select.

→ Then click **New site** to begin generating a token.

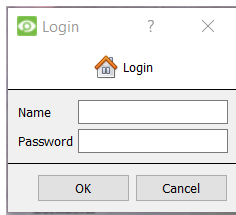


 → **Copy** the token by clicking the copy icon.

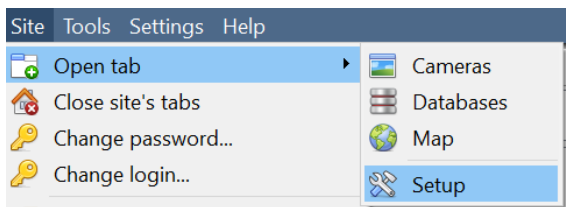
→ Click **FINISH**.

 **Note:** Clicking **FINISH** will complete the process of generating the token.

3.4.2.3 Connect a CathexisVision Site to Enterprise



→ **Log in** to the CathexisVision client or server interface with a username and password.



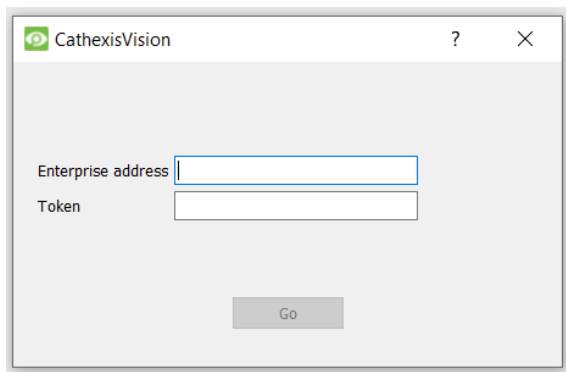
→ Navigate to General setup by following the path: **Site / Open tab / Setup**.



→ Click on the **Enterprise/MultiSite icon** on the menu on the left.



→ From the Enterprise panel, click **Register**.

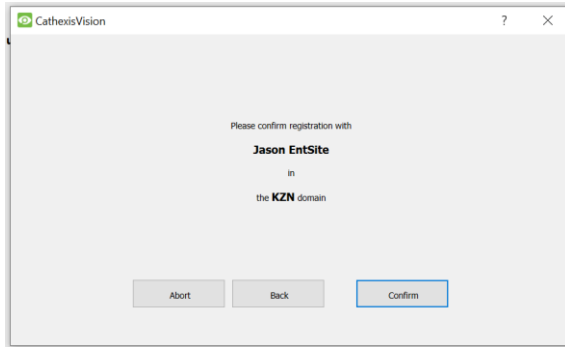


The administrator will provide the **address**.

→ Enter the Enterprise **address**.

→ Enter the **token** code.

→ Click **Go**.



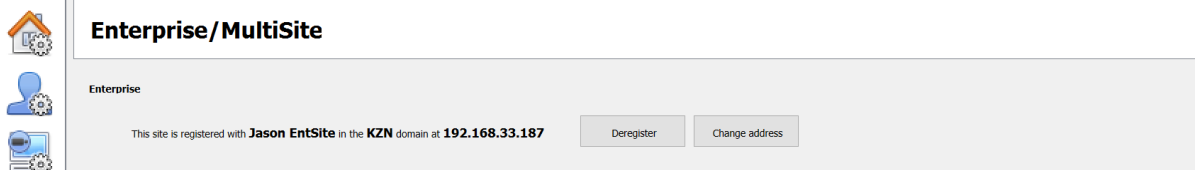
A window will open.

→ To confirm the site registration, click **Confirm**.

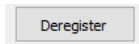
A window will pop up, confirming registration.



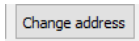
The Enterprise/MultiSite management area will now show that the site has been registered and a connection has been established.



Enterprise registration status: buttons



To deregister the site from the Enterprise server, click **Deregister**.

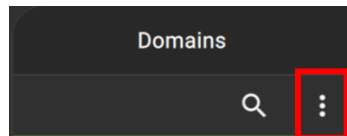


Click to change the address.

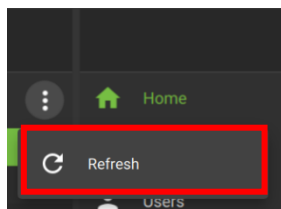
3.4.2.4 View Added Site in Carbon

To view the site, return to the Resources folder tree in Carbon. Once refreshed, the site will appear on the folder tree.

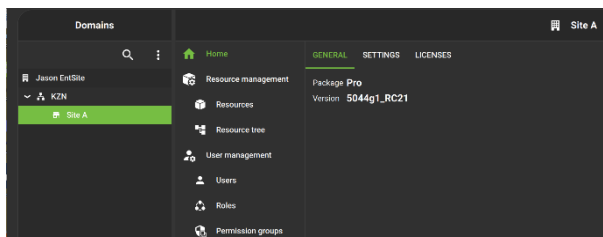
To refresh:



→ Click the horizontal ellipses (menu) icon.



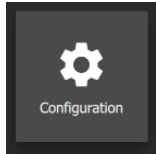
→ Click **Refresh**.



The newly-added site will appear in the folder tree.

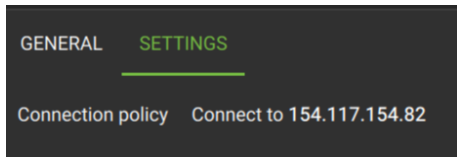
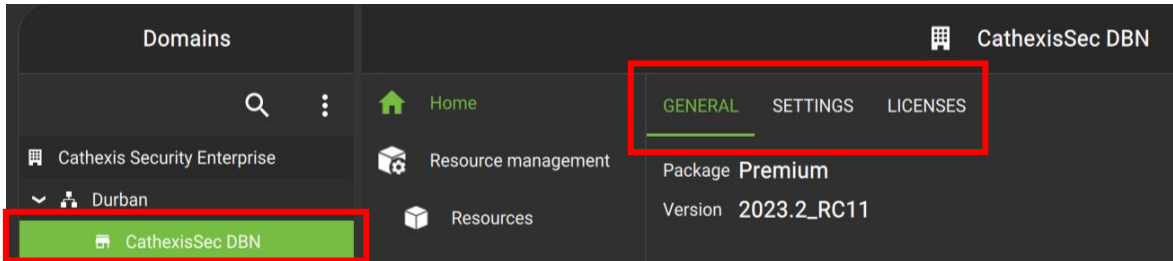
3.4.2.5 Complete Configuration of Site Connection to Enterprise in Carbon

Note: The configuration of the site’s connection to Enterprise will need to be completed in the Configuration tab of Carbon. See [8. Configuration Tab](#) for more information on using this tab.



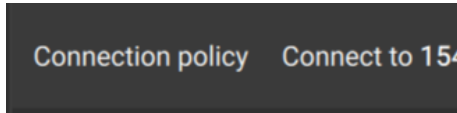
→ Click **Configuration** to open a new tab from the home screen.

→ Select the site in the Domains panel on the left. The right configuration panel will show three tab options: General, **Settings** and Licenses.



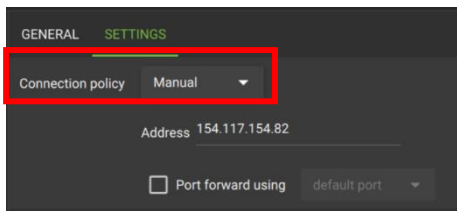
→ Select the Settings tab.

Under Settings, the user may edit the site’s connection policy.

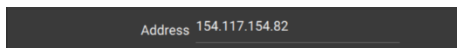
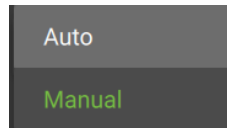


→ Click anywhere in the field.

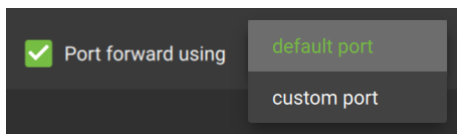
The options for editing will appear.



→ **Connection policy:** Choose between Manual and Auto. See table below for information on different connection types.




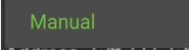
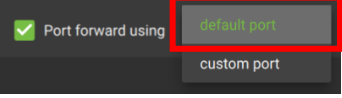
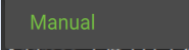
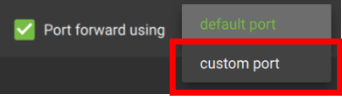
→ **Address (if Manual connection policy is selected):** Enter the IP address.



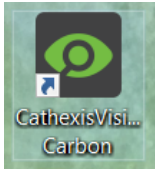
→ **Port forward using:** Choose between default port and custom port.



→ Click the **save icon** to save changes.

Connection	Description – cases when connection type is used
<p>Auto</p> 	<p>The Enterprise can determine the IP for the site by looking at the source address of the connection.</p> <p>Site → provides IP to → Enterprise (Carbon can get this IP)</p>
<p>Manual (port forwarding – default port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and use the default port</i>.</p>  <p>Site → Firewall → different IP to site → <i>Manual port forwarding with default port if configured on firewall (30011 to 30011 on site)</i></p>
<p>Manual (port forwarding – custom port)</p> 	<p>If the site sits behind a firewall, the details may be different. If the firewall has a single port opened and forwarded through to 30011 on the site, the operator can <i>enable port forwarding and specify the port in the firewall which is being forwarded</i>.</p>  <p>Site → Firewall → different IP and incoming port for site → <i>Manual port forwarding with custom port (custom port to 30011 on internal site)</i></p>

4. General Interface



Double-click the icon to open CathexisVision Carbon.

4.1 Start Screen

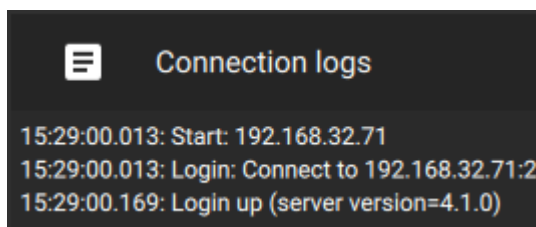
Once Carbon has been opened, the start screen will display:

The screenshot shows the CathexisVision Carbon start screen. A red box highlights the hamburger menu icon in the top left corner. Another red box highlights the login area in the center, which includes a 'Webinar Demo' link, an 'admin' user field, a 'Password' field, and a 'SIGN IN' button. A third red box highlights the hamburger menu icon in the bottom right corner.

- Further options menu in the top left ([4.2](#))
- Login area ([4.3](#))
- Connection log button in the bottom right corner ([4.1.1](#)).

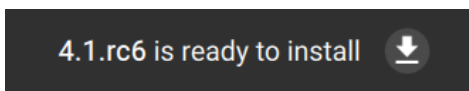
4.1.1 Connection Logs

→ Click the Connection log button to display information about the recent connections that have been made through Carbon.



4.1.2 Updates (Enterprise Only)

Note: Updates are only available on Enterprise.



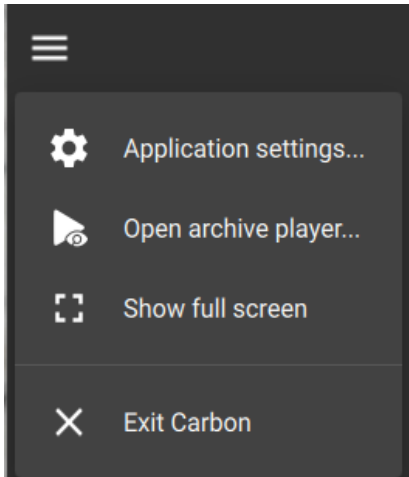
If updates are enabled, the link to download available updates will be shown at the top of the start screen.

4.2 Further Options Menu



Click the **menu icon** in the top-left corner.

The following menu will appear.



Click the **gear icon** to open [Application settings](#).



Click to open the [Archive player](#) directly.



Click to **show full screen** or **exit** full screen.



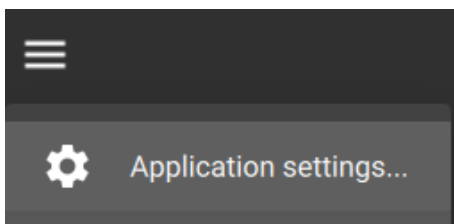
Exit and close Carbon.

4.2.1 Application Settings



Note: It is not necessary to set up Carbon prior to logging in, but the operator may wish to configure updates or other settings.

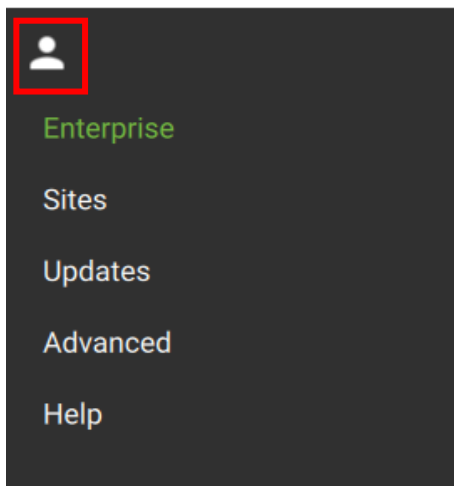
The user must log out in order to access these settings.



→ Click the **menu icon**.

→ Then, **select “Application settings”** from the drop-down menu.

A new menu will appear and the main window will change.



To return to the login screen, select the user icon.

4.2.1.1 Application Settings: Enterprise (Edit Connection Properties)



→ To edit Enterprise or MultiSite connections, select “Enterprise”.



→ Click the **ID** field to edit the name of the Enterprise connection.

→ Click the **save** icon.

→ Click the **Address** field and edit the IP address.

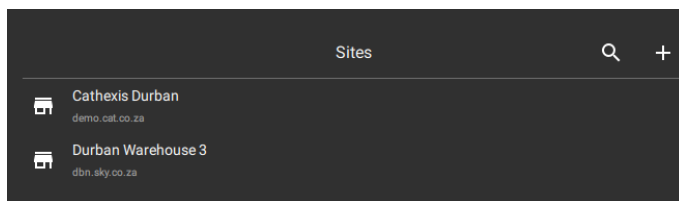
→ Click the **save** icon.

4.2.1.2 Application Settings: Sites (Edit Connection Properties)



→ To edit Sites connections, select “Sites”.

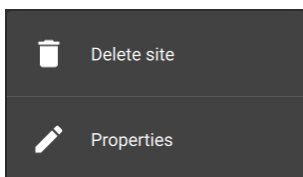
Available site names and addresses will appear in the main panel in the centre of the screen.



→ To edit a site, **hover** over the field until the **menu icon** appears.

→ Click the icon to select.

The following dop-down menu will appear:



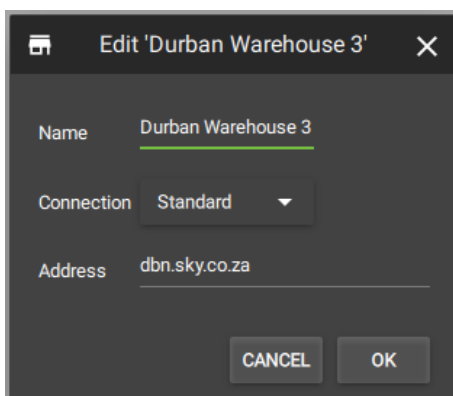
Click **Delete site** to remove a site.



Select **Properties** to edit.

Properties

A new dialogue box will open.



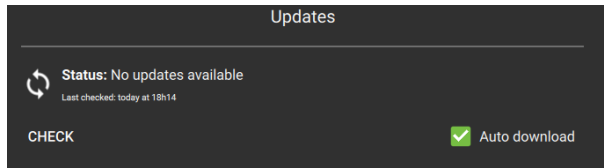
Change the **Name** and **Address** by re-entering details in the fields.

Click OK to save changes.

4.2.1.3 Application Settings: Updates



→ Select **Updates** from the menu.



Click Check to see whether a new update is available.



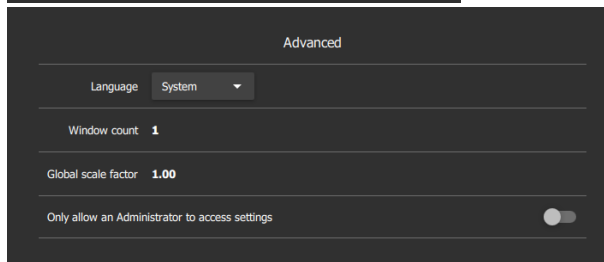
Check **Auto download** to set up **automatic downloads** of updates, or uncheck the box to manage updates manually.

Note: When automatic downloads are selected, each update will need to be added to the Enterprise server manually by an administrator.

4.2.1.4 Application Settings: Advanced

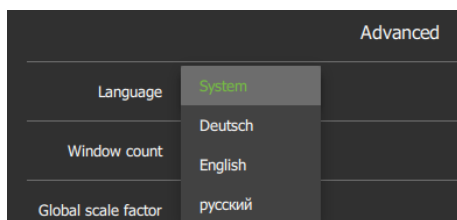


Select **Advanced** from the menu.



The Advanced settings options will appear in the main panel in the centre of the screen.

Change Language



From this Advanced Settings menu, click the drop-down menu to select a **Language**.

Choose between System, Deutsch, English, and Russian.

Changes will save upon exit.

Change Window Count

Window count can increase the total number of windows open on the desktop.



To **edit** Window count, **hover** over the field until the edit icon appears, and **click it**.

The field will become active:



Use the **plus and minus signs** to increase or decrease the window count.



Then, click the **save icon** to keep changes.

Change Global Scale Factor (Size)

Global scale factor increases the size and appearance of the everything in the user interface.



To **edit** Global Scale factor, **hover** over the field until the edit icon appears, and **click**.

The field will become active:



Use the **plus and minus signs** to change the scale factor.



Then, click **the save icon** to keep changes.

Increase by 1.25 will show the display at 125% of the standard size.

To increase the size of the timeline only, see [3.3.5.2 Global Settings](#).

Administrator Access Settings



Toggle the switch on the **Administrator access** to enable this feature. This will allow only operating system administrators to be change settings.

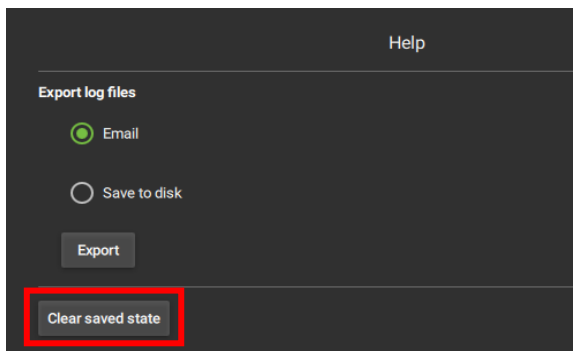
A dialogue box will pop up asking permission for the app to make changes to device.

Click Yes to enable the administrator-only feature.

4.2.1.5 Application Settings: Help



→ To configure help settings, select **Help** from the drop-down menu.



Select from options to

- Email log files or
- Save to disk.

→ Click **Export**.

Use the **Clear saved state** button to Reset the saved tabs from the previous session.

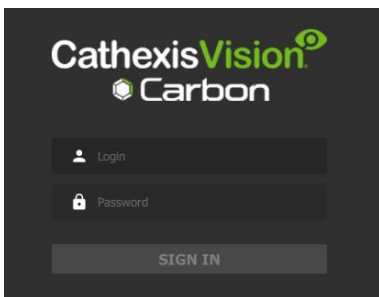
4.3 Log In

The layout of the **Log in** area is as follows:



- Type of connection (site, MultiSite or Enterprise)
- Login
- Password

To log in:

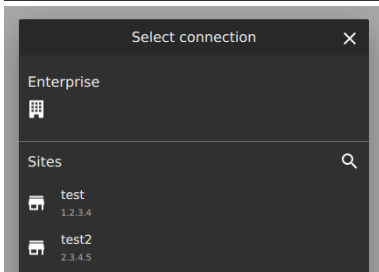


- Enter the credentials for **login and password**.
- Click **SIGN IN**.



If the additional field is displayed in the top row, **clicking the field** will present more options.

A new dialogue box will open.

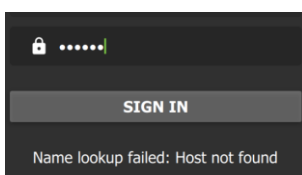


- Select the desired **connection type**: Site or Enterprise.



Note: Both Enterprise and MultiSite connections must be configured in the top panel (labelled Enterprise).

4.3.1 Error Message: Name Lookup Failed

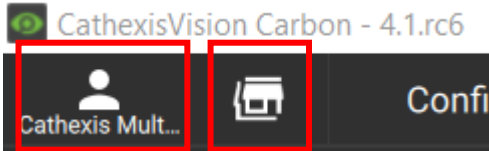


If the **Name lookup failed** error message is received, there may be a problem with the internet or network **connection**.

Contact the Administrator to check the connection.

4.4 User Settings

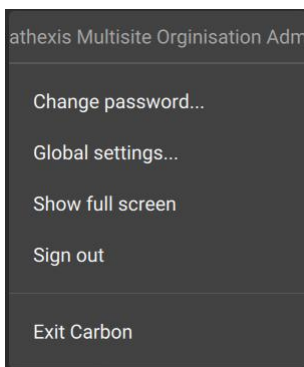
After logging in, some user settings can be changed from the home screen. These settings modify how the interface is used.



Click the **user icon** to configure further settings.

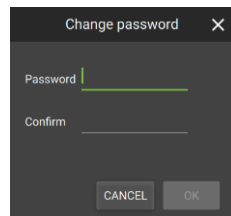
Click the **server icon** to check server details.

4.4.1 Further Settings: Change Password



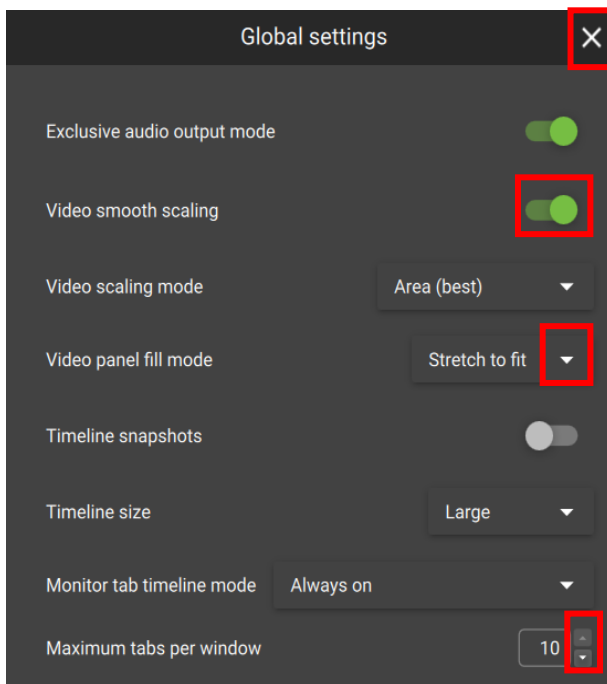
Select **Change password...** from the drop-down menu.

A new dialogue box will open.



4.4.2 Further Settings: Global Settings

Select **Global settings...** from the menu to make changes to the appearance of the interface and the way it is used.



Click the **cancel icon** at any time to **exit**. This will **save changes**.

Toggle the switches to enable or disable features.

Click the drop-down menus to see more options. Then click to select.

Click the arrows to increase or decrease quantities.

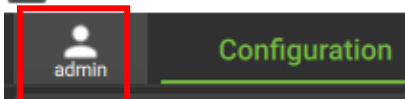
GLOBAL SETTINGS OPTIONS	DETAILS
Exclusive audio output mode	This allows audio to play for only one camera at a time.
Video smooth scaling	This fits cameras into displays using a higher performance mode. It offers better picture quality and takes more processing power.
Video scaling mode	Choose between options for better video image quality or faster performance. <ul style="list-style-type: none"> • Area (best) • Bilinear (fastest)
Video panel fill mode	Choose how the video feed fills the display panels. <ul style="list-style-type: none"> • Normal • Crop to fit • Stretch to fit
Timeline snapshots	This shows a thumbnail on the timeline of the footage when the mouse hovers over a point in time.
Timeline size	Change the size of the timeline when viewing or reviewing footage. Choose from: <ul style="list-style-type: none"> • Small • Medium • Large
Monitoring tab timeline mode	Choose to see the timeline in the Monitoring tab at certain times only, or at all times: <ul style="list-style-type: none"> • Always on • Review only • Always off • Review on, live auto
Maximum tabs per window	This will change the total tabs that can be opened from the home screen, where 10 is the maximum.

Note: For settings regarding resources, roles and permissions, see instructions in [8. Configuration Tab](#).

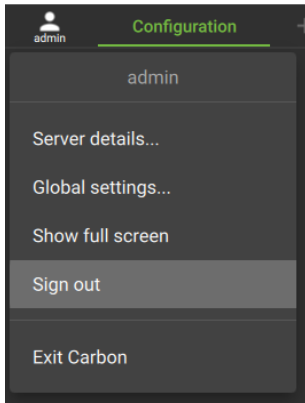
4.4.3 Signing Out: Return to Menu

In order to sign in to another account, it is necessary to log out first and return to the main menu.

CathexisVision Carbon - 4.1.



→ Click the user icon at the top of the screen.



A drop-down menu will appear.

→ Click **Sign out**.

The user will be logged out and returned to the Sign in screen.

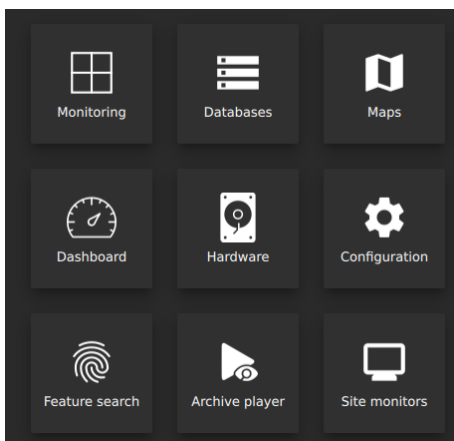
4.5 Home Menu Tab

Navigate the Carbon interface by opening tabs from the home menu.

- Tabs remain open during a session and will automatically be saved for the next session.
- Tabs are accessed by a mouse left-click on the “+” in the top bar of the GUI next to the “admin” icon.

<p>A Site connection displays the following tabs:</p> <ul style="list-style-type: none"> ✓ Monitoring ✓ Databases ✓ Maps ✓ Configuration ✓ Feature search ✓ Archive player ✓ Site monitors 	<p>A MultiSite connection displays the following tabs:</p> <ul style="list-style-type: none"> ✓ Monitoring ✓ Databases ✓ Maps ✓ Configuration ✓ Feature search ✓ Archive player ✓ Site monitors 	<p>An Enterprise connection displays the following tabs:</p> <ul style="list-style-type: none"> ✓ Monitoring ✓ Databases ✓ Maps ✓ Configuration ✓ Feature Search ✓ Archive player ✓ Site monitors ✓ Dashboard ✓ Hardware
--	---	--

4.5.1 Using Tabs

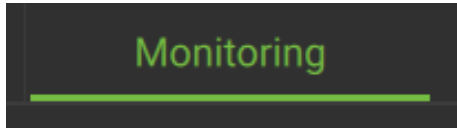


→ **Select an option** from one of the menu items, and it will open as a new tab.

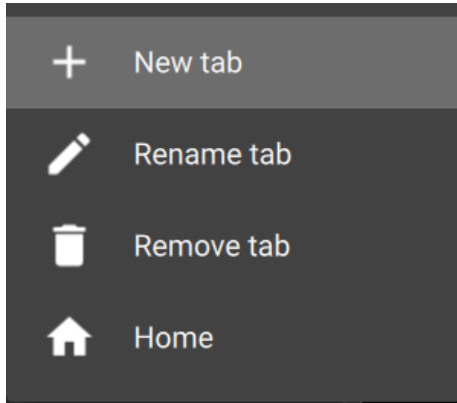
All open tabs can be viewed along the top of the screen.

4.5.1.1 Right-click on a Tab: New, Rename, or Remove Tab

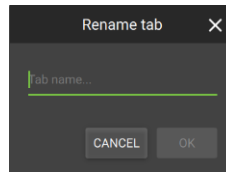
Right-clicking on a tab will open a menu where the user can add a new tab, rename a tab, remove the tab, or return to the Home Menu.



- Right-click on a tab.
- A menu will appear.

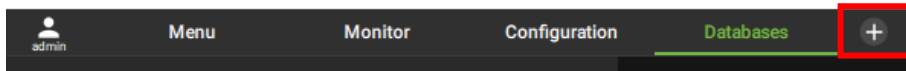


- Click on **New tab** to open a new tab, which will show the Home Menu.
- Select **Rename tab** to rename the selected tab.



- Select **Remove tab** to remove the selected tab.
- Select **Home** to return to the Home Menu in the selected tab.

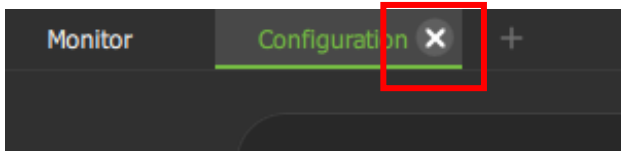
4.5.1.2 Return to Home Menu



To return to the *home menu tab* at any time, **click** the **plus icon** at the top of the screen.

This will open a new *home menu tab*, and allow the user to add new tabs from the main menu.

4.5.2 Closing Tabs



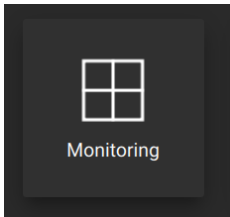
To close a tab, **hover** the mouse over the tab label until the cancel icon appears.



Click the cancel icon to close the tab.

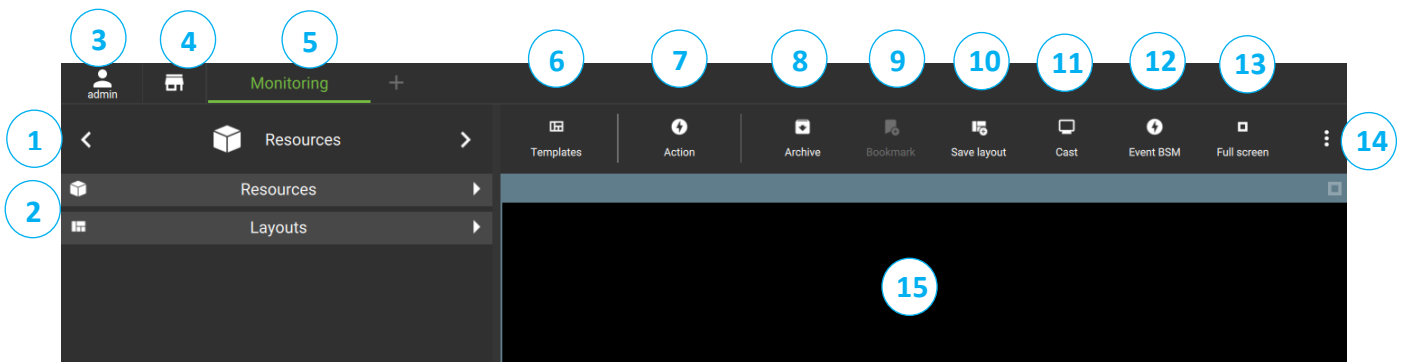
5. Monitoring Tab

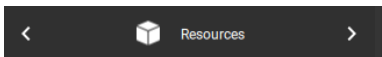
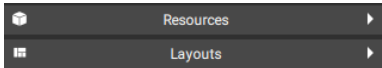
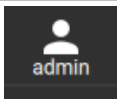

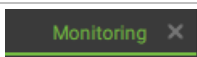
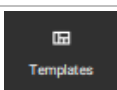
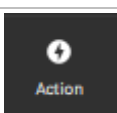
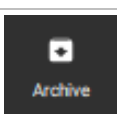
The Monitoring tab is where cameras and resources and can be viewed, reviewed, searched, and archived.

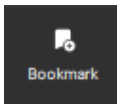
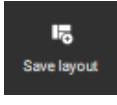
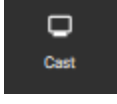
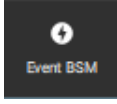
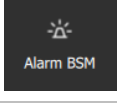
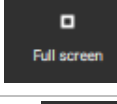
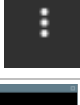
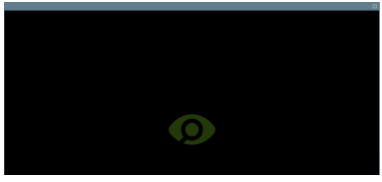


From the home menu, click the Monitoring icon to create a new Monitoring tab.

5.1 Monitoring Tab at a Glance



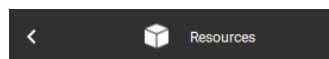
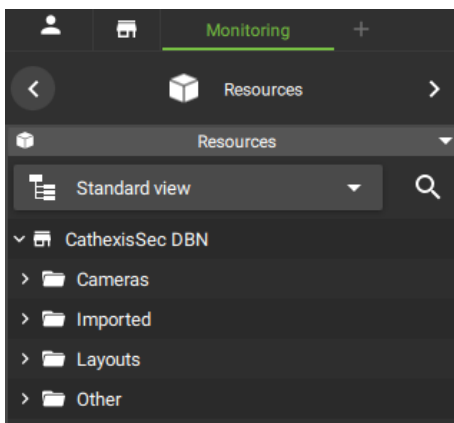
		Description	Section
1		Click the arrows on the left and right to move between Resources , Bookmarks , Layouts , and Cameras with Activity . Alternatively, click on the name to display a drop-down menu.	5.2
2		Click to view saved layouts and resources .	5.5/5.6 5.8.2
3		Click the user icon to configure Global settings, Show full screen, Sign out, or Exit Carbon.	
4		Click on the site/installation icon to view server details.	
5		The selected tab will be highlighted in green.	
6		Click to select a template , open the template editor, or remove a template.	5.4
7		Click to switch all feeds to live, review all live fees, pause/unpause all feeds, or clear all panels.	5.9.1.1
8		Click to open the Archive builder .	5.9.3

9		Click to open Bookmarks .	5.9.4
10		Click to save a layout .	5.8
11		Click to send/cast a layout to a site monitor .	5.11.2
12		Click to open Event black screen monitor .	5.7
		Click to open Alarm black screen monitor .	5.12
13		Click to make the monitor panels full screen.	
14		Monitoring Tab Settings Menu	5.3
15		Camera Panel Display	5.9

5.2 Viewing and Searching Resources in the Folder Tree

Navigate the folder tree on the sidebar to access resources.

5.2.1 Using the Folder Tree



Click on **Resources** to view resources in the folder tree.



To expand the folders, click the **arrows** next to the folder names.

The icons for resources within the folders indicate:



Cameras



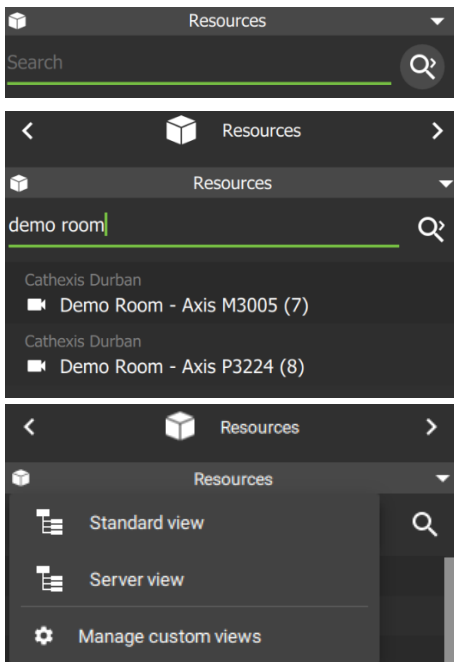
PTZ cameras



Maps



Event groups



→ To search resources, click the **search icon**.
 → Then **type a term** in the search bar that appears.
 For example, the search term “demo room” yields all resources labelled with the search term.

Resources can be viewed in Standard or Server view.

Standard view lists resources by resource type.
Server view lists resources according to NVR.

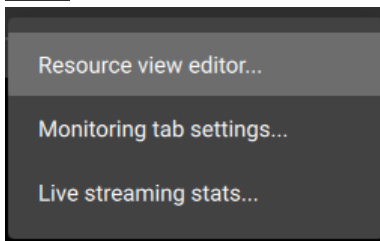
5.2.2 Using the Resource View Editor

The **Resource view editor** allows the operator to customise the folder tree in the monitor side panel to view resources. There are two ways to access the Resource View Editor:

Option 1: Monitoring Tab Options Menu

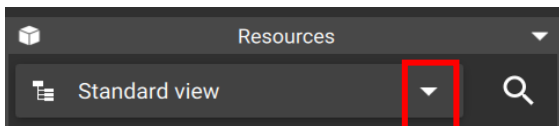


→ Click the options icon on the **top right** of the Monitoring tab screen.

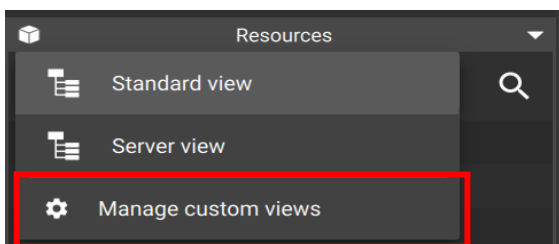


→ Select **Resource view editor** from the drop-down menu.

Option 2: Resources Panel Drop-Down



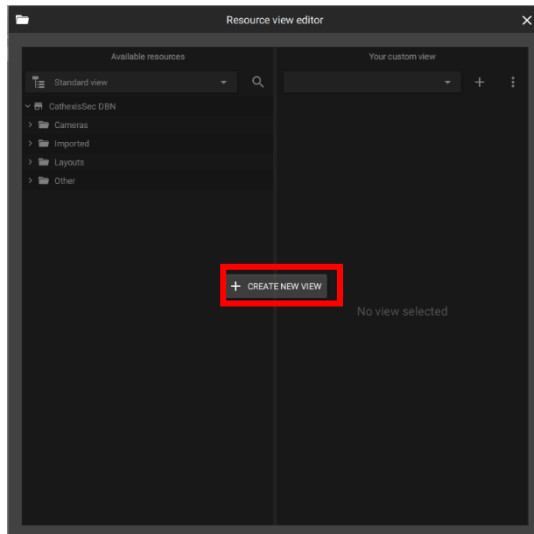
→ In the side panel, click the drop-down arrow next to the resource view heading.



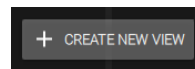
→ Click **Manage custom views**.

5.2.2.1 Add a Custom Resource View

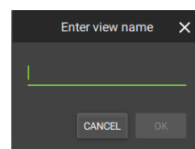
First Time Creating Resource View



When creating a custom resource view for the *first time*, the option to add a new view will pop up in the middle of the screen.

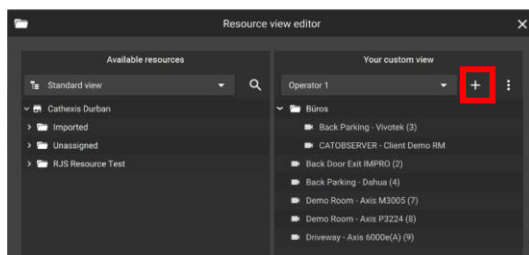


→ Click the button to begin creating a **custom resource view** for the first time.



A new dialogue will open.
 → Give the custom view a **descriptive name**.
 → Select **OK**.

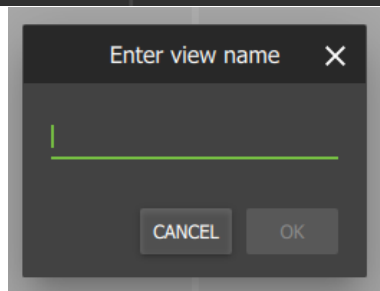
Not First Time Creating Resource View



If it is *not* the first time creating a resource view, use the tools on the right-hand side.

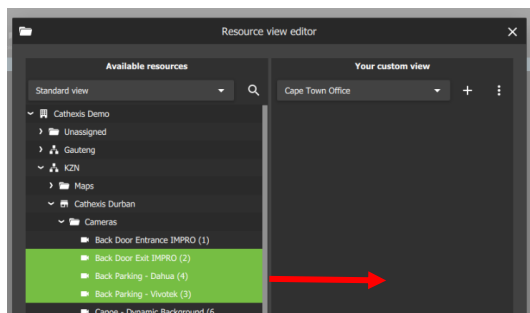


→ Click the **plus icon** on the right side to create an additional custom resource view.



A new dialogue will pop up.

→ Give the custom view a **descriptive name**.
 → Select **OK**.

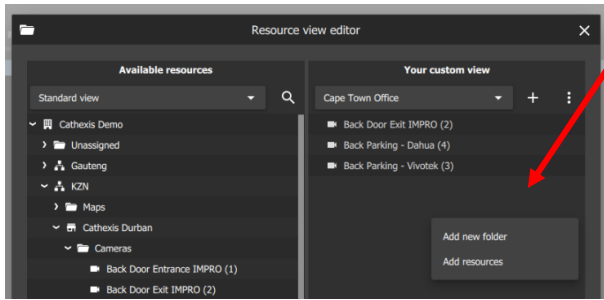


→ **Select and drag resources** from the folder tree on the left into the custom view panel on the right.

→ Shift + click to select multiple resources.

Changes will save on exit.

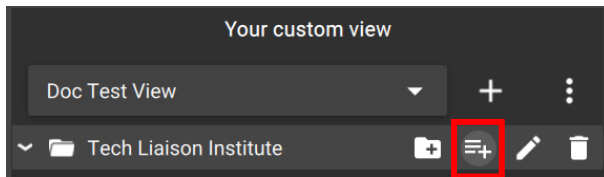
Add a Folder to a Custom View



- To add a new folder, **right-click** on the custom view panel, on the right.
- Select **Add new folder**.
- **Select and drag** resources into the new folder.

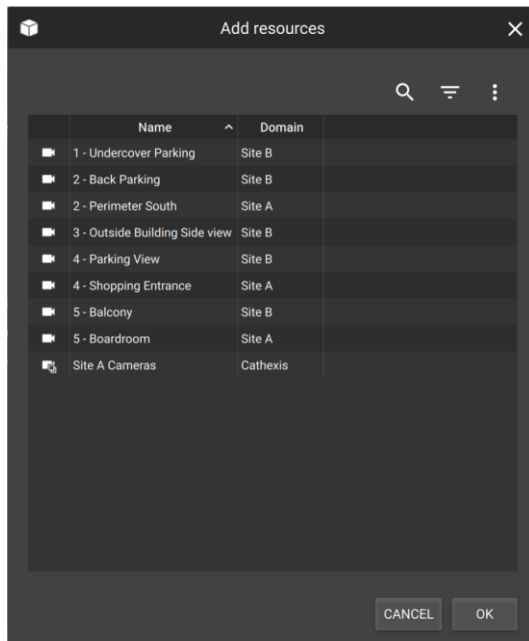
Exiting the Resource View Editor will save changes to the custom view.

Add resources to a folder



- Hover the mouse over the folder. Further options will appear.
- Click this icon to add resources to the folder.

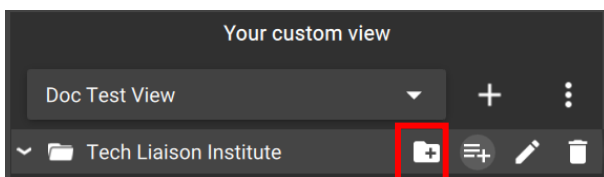
The **Add resources** window will open.



- Select resources.

- Click OK.

Add a folder to an existing folder



- Hover the cursor over the folder. Further options will appear.
- Click this icon to add a new sub-folder.

Rename / Delete a Resource, Folder or Custom View



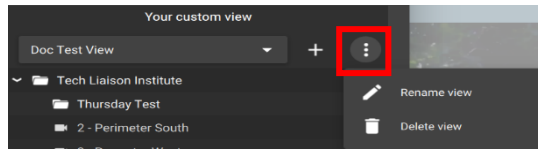
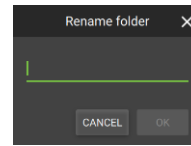
Delete a resource from a custom view: Hover the cursor over the resource. The delete icon will appear. Click it.



Delete a folder: Hover the cursor over the folder. Click the **delete** icon.



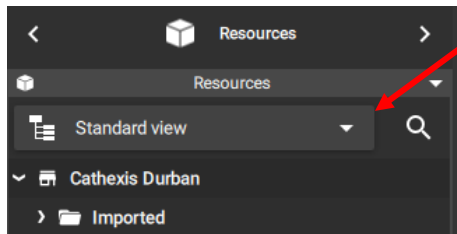
Rename a folder: Hover the cursor over the folder. Click the **edit** icon. The **Rename folder** dialogue will open.



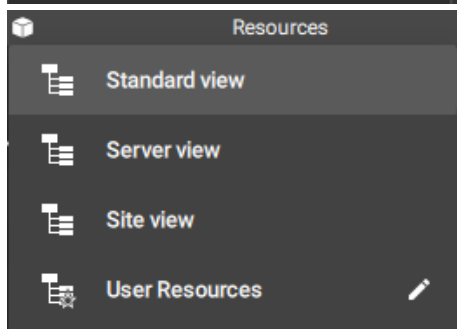
Delete or rename a custom view: Click the menu icon to the right of the test view name. Select whether to Rename or Delete view.

5.2.2.2 View Custom Resource View

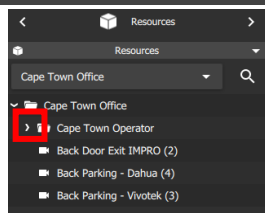
To change from standard view to a customised view of the folder tree, return to the side panel of the Monitoring tab main screen.



→ Select the drop-down menu labelled **Standard view** to see more options.



→ **Select a custom view** from the drop-down menu.

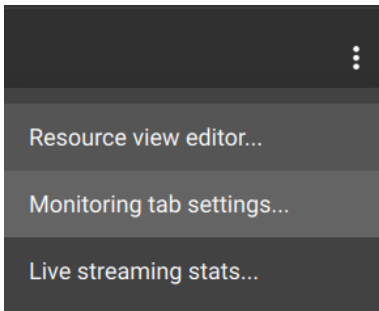


→ Click the arrow to expand the folder.

Resources that have been added will be displayed.

→ Double-click a resource to display it in the review panel.

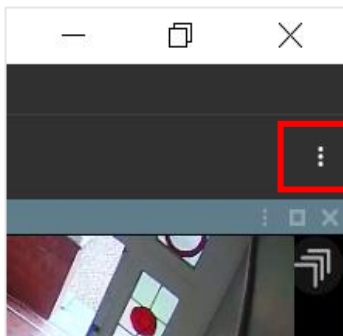
5.3 Monitoring Tab Settings Menu



Settings in the Monitoring Tab can be changed to allow operators to view stream information, statistics, and adjacent cameras as overlays. Timeline mode and side panels can also be adjusted. Live streaming statistics are available.

Note: See [5.2.2 Using the Resource View Editor](#) for information on the **Resource View Editor**.

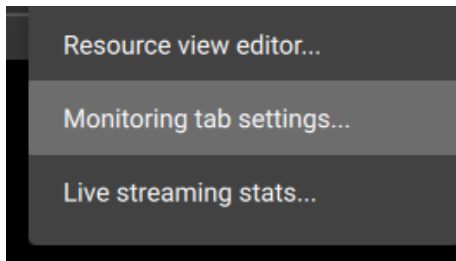
5.3.1 Changing Monitoring Tab Settings



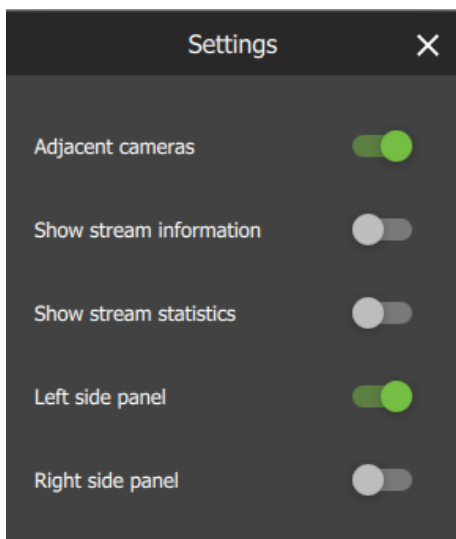
The Monitoring tab settings can be found in the **top right**.



→ To change settings, select the Monitoring tab **menu icon**.



→ Select **Monitoring tab settings** from the drop-down menu.



A new dialogue box will appear.

→ **Toggle** the switches to enable or disable settings.

- Disabling **Adjacent cameras** will mean that clickable overlays/arrows to indicate nearby cameras will not display on videos.
- For examples of **stream information** and **stream statistics**, see below.
- **Side panels** are identical and show Resources, Layouts, Bookmarks, and Cameras with Activity.

Tip: A second side panel is useful for using the Cameras with Activity feature while monitoring (see [5.9.14 Monitoring Using the Side Panel](#)).



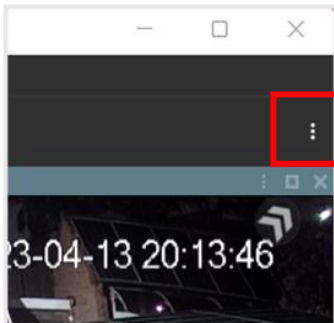
Above: Show stream information (enabled).



Above: Show stream statistics (enabled).

5.3.2 View Live Streaming Statistics

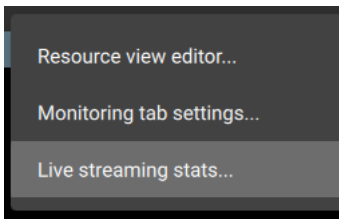
Live streaming statistics are available from the Monitoring tab settings menu. First, open a layout or add cameras to the display.



The Monitoring tab settings can be found in the **top right**.



→ To change settings, select the Monitoring tab **menu icon**.



→ Select **Live streaming stats** from the drop-down menu.

A new dialogue window will open.

When the **CAMERAS** tab is selected, as illustrated below, statistics will be shown about the cameras currently displayed in the Monitoring tab.

Live stream statistics

CAMERAS DECODER THREADS

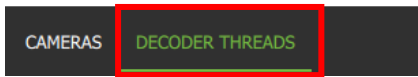
Summary

Cameras	Frame rate	Drop rate	Buffered size	Decoder input Q	Stalled sources	Stalled decoders	Decoders dropping	Receive rate
6	59	5	59.0 MB	10	0	0	0	13.4 Mbps

Cameras

Camera	Panel	Video	Source	Decoder	Decoder	Frame timing	Display buffering	Decoder stats	Transmission stats
Back Parking - Vivotek (3)	-1x-1	-1x-1	Source stalled	Decoder stalled	Decoder dropping	Frame rate: 0.0 fps Frame jitter: 0 ms Arrival jitter: 0 ms Display jitter: 0 ms	Frames: 0 Time: 0 ms Drop ratio: 0.0 fps	In Q: 0 Out Q: 0	Msgs received: 0 (0.000 MB) Msgs dropped: 0 (0.000 MB) Received rate: 0.000 MBps Dropped rate: 0.000 MBps Dropped time: 0 s
Rear PTZ	-1x-1	-1x-1	Source stalled	Decoder stalled	Decoder dropping	Frame rate: 0.0 fps Frame jitter: 0 ms Arrival jitter: 0 ms Display jitter: 0 ms	Frames: 0 Time: 0 ms Drop ratio: 0.0 fps	In Q: 0 Out Q: 0	Msgs received: 0 (0.000 MB) Msgs dropped: 0 (0.000 MB) Received rate: 0.000 MBps Dropped rate: 0.000 MBps Dropped time: 0 s
Front Door - Exit (18)	-1x-1	-1x-1	Source stalled	Decoder stalled	Decoder dropping	Frame rate: 0.0 fps Frame jitter: 0 ms Arrival jitter: 0 ms Display jitter: 0 ms	Frames: 0 Time: 0 ms Drop ratio: 0.0 fps	In Q: 0 Out Q: 0	Msgs received: 0 (0.000 MB) Msgs dropped: 0 (0.000 MB) Received rate: 0.000 MBps Dropped rate: 0.000 MBps Dropped time: 0 s
Back Parking - Vivotek (3)	793x410	1920x1080	Source stalled	Decoder stalled	Decoder dropping	Frame rate: 5.4 fps Frame jitter: 4 ms Arrival jitter: 0 ms Display jitter: 11 ms	Frames: 4 Time: 600 ms Drop ratio: 0.0 fps	In Q: 0 Out Q: 1	Msgs received: 4 (0.205 MB) Msgs dropped: 0 (0.000 MB) Received rate: 4.438 MBps Dropped rate: 0.000 MBps Dropped time: 0.000 MBps
Rear PTZ	793x410	1920x1080	Source stalled	Decoder stalled	Decoder dropping	Frame rate: 7.8 fps Frame jitter: 6 ms Arrival jitter: 0 ms Display jitter: 15 ms	Frames: 7 Time: 240 ms Drop ratio: 0.0 fps	In Q: 9 Out Q: 2	Msgs received: 9 (0.400 MB) Msgs dropped: 2 (0.090 MB) Received rate: 4.438 MBps Dropped rate: 0.869 MBps Dropped time: 0.000 MBps
Front Door - Exit (18)	793x410	1920x1080	Source stalled	Decoder stalled	Decoder dropping	Frame rate: 25.4 fps Frame jitter: 0 ms Arrival jitter: 0 ms Display jitter: 7 ms	Frames: 8 Time: 280 ms Drop ratio: 4.5 fps	In Q: 1 Out Q: 2	Msgs received: 8 (0.368 MB) Msgs dropped: 2 (0.090 MB) Received rate: 4.545 MBps Dropped rate: 0.869 MBps Dropped time: 0.000 MBps

Live stream statistics



→ Select the **DECODER THREADS** tab to switch display to decoder threads statistics.

Live stream statistics

CAMERAS		DECODER THREADS	
ID 17220	Jobs 1	Load 5%	Load score 2.09 MP
ID 15716	Jobs 1	Load 12%	Load score 2.07 MP
ID 13428	Jobs 1	Load 15%	Load score 2.09 MP
ID 12996	Jobs 1	Load 7%	Load score 2.09 MP
ID 11636	Jobs 1	Load 13%	Load score 2.07 MP
ID 1560	Jobs 0	Load 4%	Load score 0.00 MP

Decoder threads will appear as illustrated.



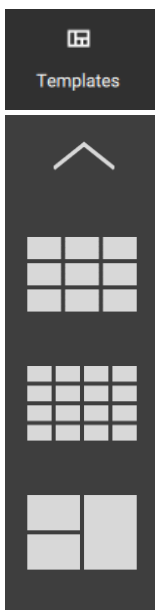
The decoder threads section shows statistics for the parallel video decoder processing threads. These threads allow multiple video decodes to take place simultaneously, yielding improved performance at the cost of extra load on the CPU.

5.4 Templates

The user may select from various templates or customise a unique display by modifying the shape, size, and number of panels.

Once a template has been saved, multiple resources can be added to it, and saved, to create a **layout**.

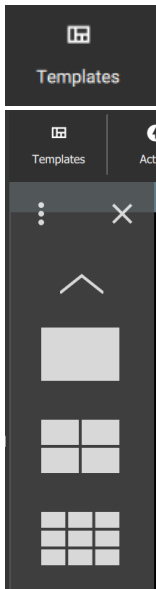
5.4.1 Choosing a Template



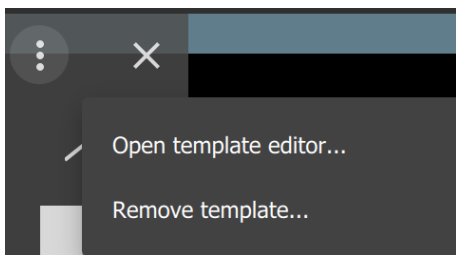
→ To choose a **standard display**, click **Templates** at the top of the screen.

Some examples of templates are illustrated in the image alongside.

5.4.2 Building a Display for a Customised View

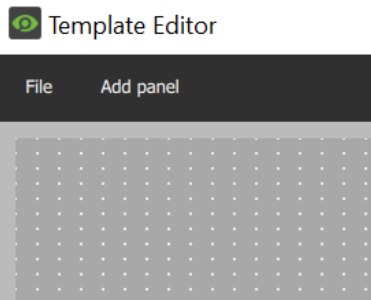


→ Click the Templates icon at the top of the screen.

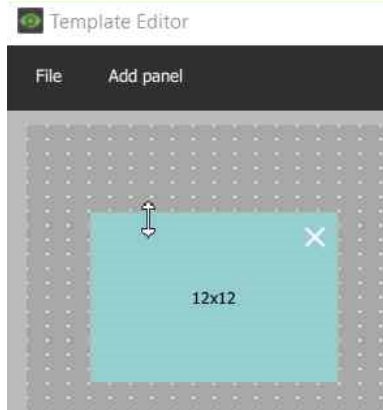


→ Select **Open template editor**.

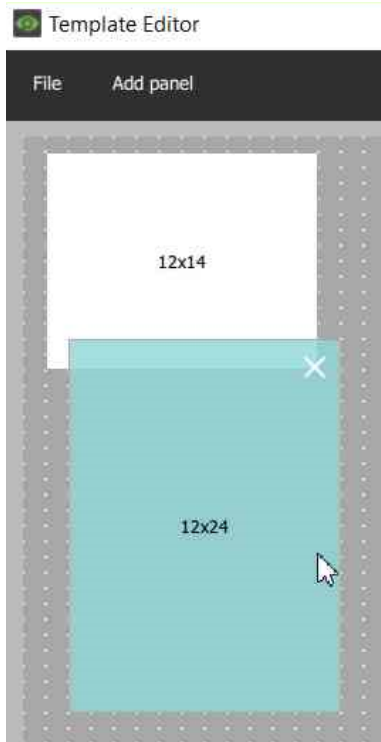
5.4.2.1 Creating a Template



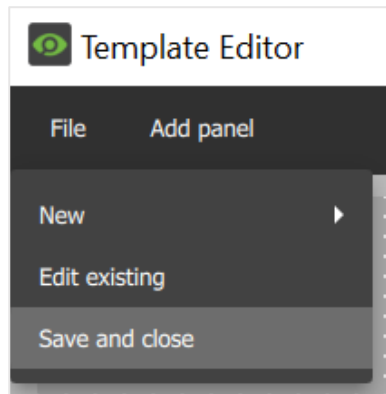
→ Select the **Add panel** button or right-click to add new panels.



→ Use the **resize tool** to increase or decrease the dimensions of the panels.



→ Click and **drag panels** to arrange.



→ To save, go to **File**, and select **Save and close** from the drop-down menu.

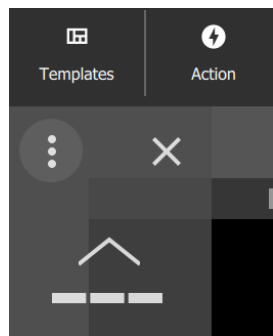


To locate the new template, go to the main Monitoring tab.

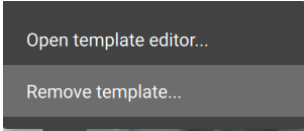
→ Select **Templates**.

→ **Scroll down**. The new template will appear **at the bottom** of the saved templates.

5.4.2.2 Removing a Template

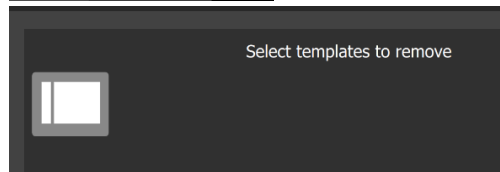


→ To remove or delete a template, select the **menu icon** from the Templates drop-down menu.

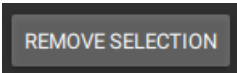


→ Select **Remove template**.

A new dialogue box will open.



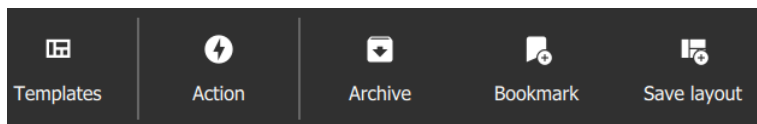
→ Select from options of templates created by the user.



→ Click **REMOVE SELECTION** at the bottom of the screen.

5.4.2.3 Changing the Template While Viewing Cameras

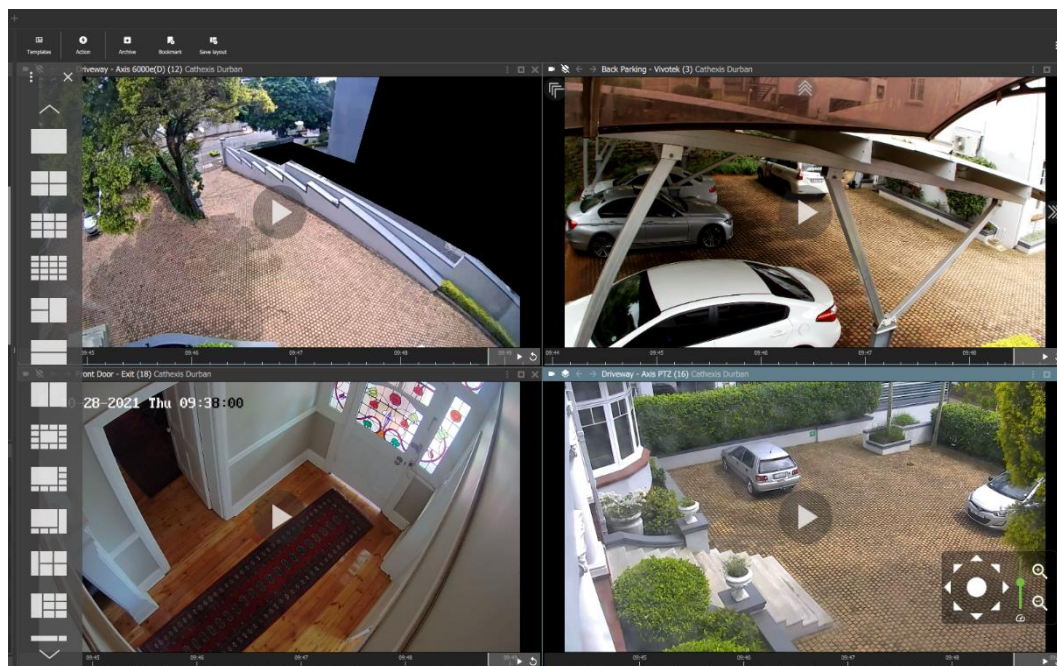
It is possible to change the format of a display during viewing, if more or fewer cameras are required.



→ Click the **Templates icon** on the top menu bar.

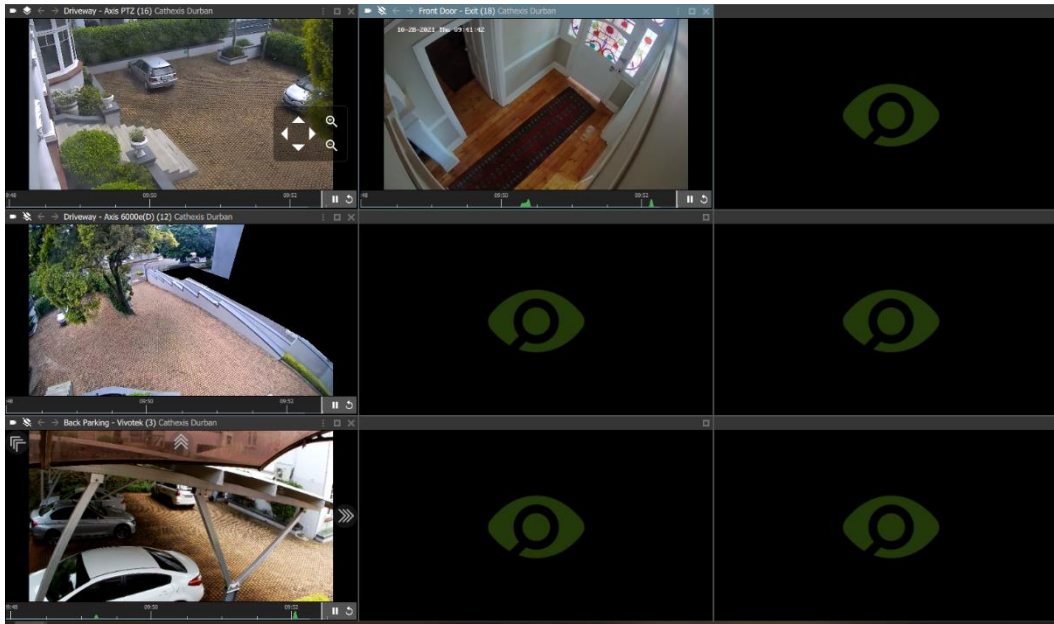
The saved templates will drop down over the display as illustrated below.

→ **Select** a new template.



The feeds will automatically rearrange within the new template.

Illustrated below is an example of an automatic rearrangement in a 3x3 display.



- To move cameras between displays, **click the menu bar** at the **top** of a thumbnail.
- Then, hold down the mouse to **drag and drop** onto any other display panel.



See [5.9.2 Review Tools](#) for details on the review panel review tools.

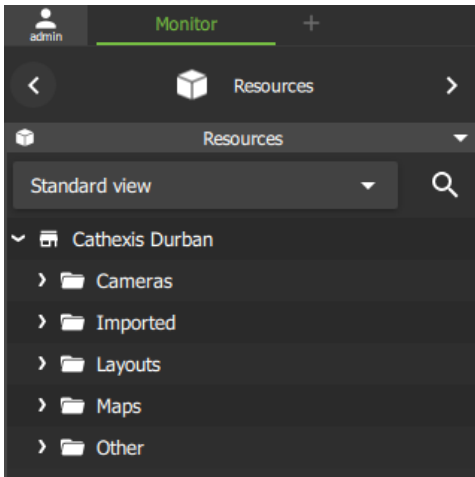


Click to maximise the panel. Click again to minimise.



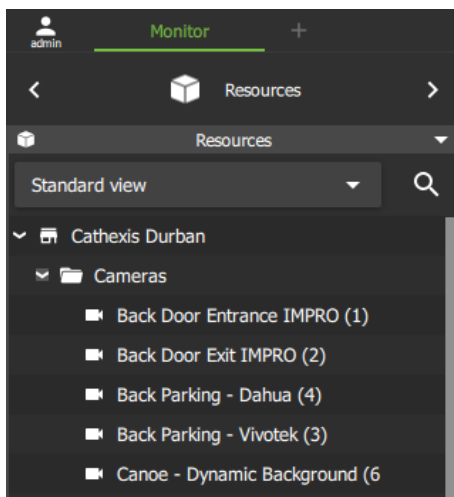
Click to close the panel.

5.5 Creating a Layout: Adding Resources to a Template



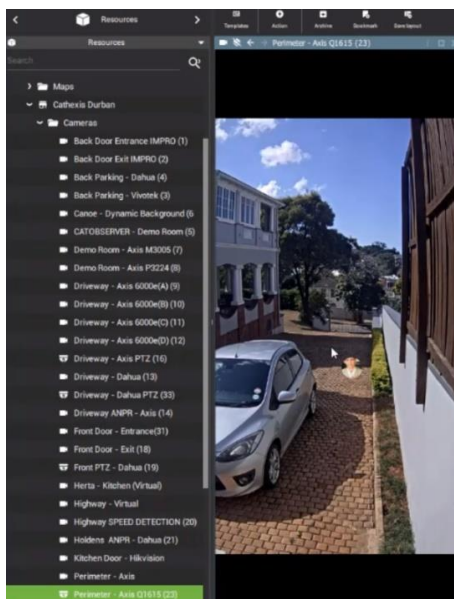
→ Click the **arrows** next to the resource folders to view lists of individual **resources**.

5.5.1 Adding a Camera



→ To view available **cameras**, click the **arrow** next to Cameras on the folder tree.

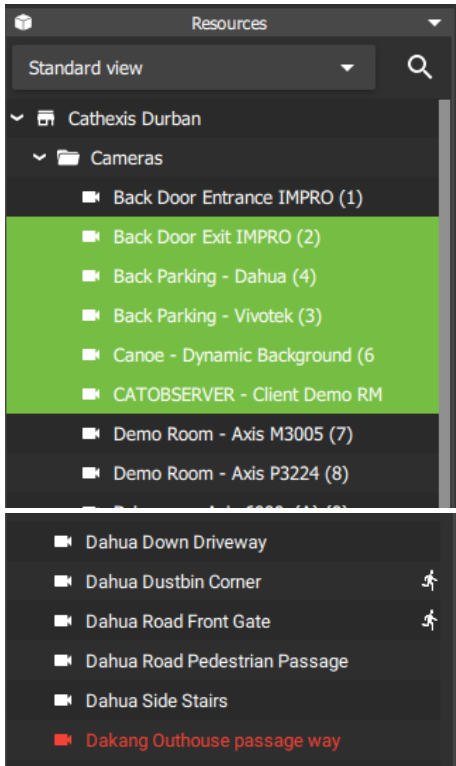
The cameras will open in a list below.



→ **Drag and drop** from the Cameras list onto the display panel.

→ Match the camera view to the appropriate display panel. (The size and shape of the display may be different depending on the type of camera.)

In the image alongside, the vertical display panel fits the perimeter camera display size.



A user may **select and drag** multiple items at once. To select multiple resources:

Ctrl + Click Hold down Control, and click non-consecutive (separate) items to include.

Shift + Click Hold down Shift, and click the first and last item in a list of consecutive items (next to each other). This will include all resources between the first and last clicked item.



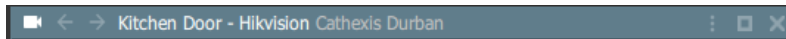
The live icon appearing at the end of a camera name indicates that motion is detected in that camera's view.



A red camera or resource indicate the resource is offline.

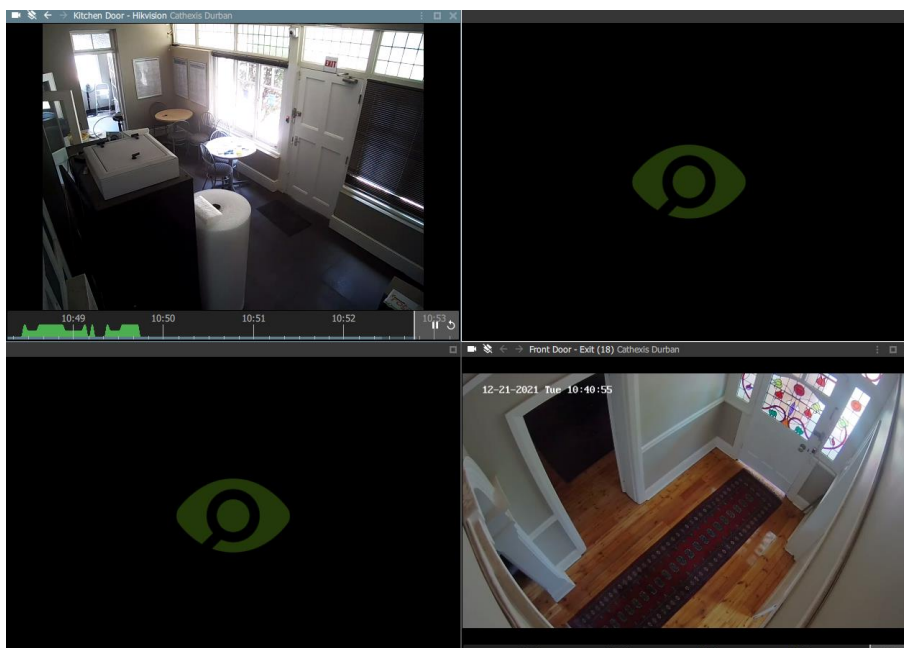
5.5.1.1 Rearranging Cameras in Display Panels

To move a camera from one display panel to another:



→ **Left-click** the **bar** on top of the display panel; **hold** down; **drag** into an empty display panel.

A thin white square around the frame will indicate the placement.



→ Then release the mouse to drop the camera into the panel.

5.5.2 Adding Resources from Multiple Sites (MultiSite and Enterprise Only)

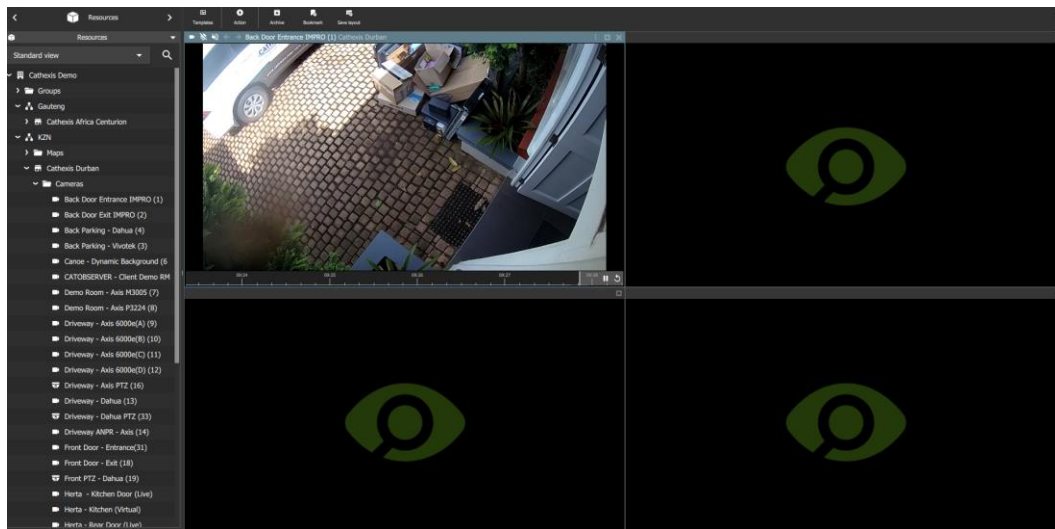
MultiSite and Enterprise connections allow users to view resources from multiple sites. After a resource has been added from a first site, additional cameras or maps are added in the same way.

5.5.2.1 Step 1: Add a Resource from the First Site

Use the folder tree on the left to locate the resource to be added.

→ **Drag and drop** into an empty display panel to view.

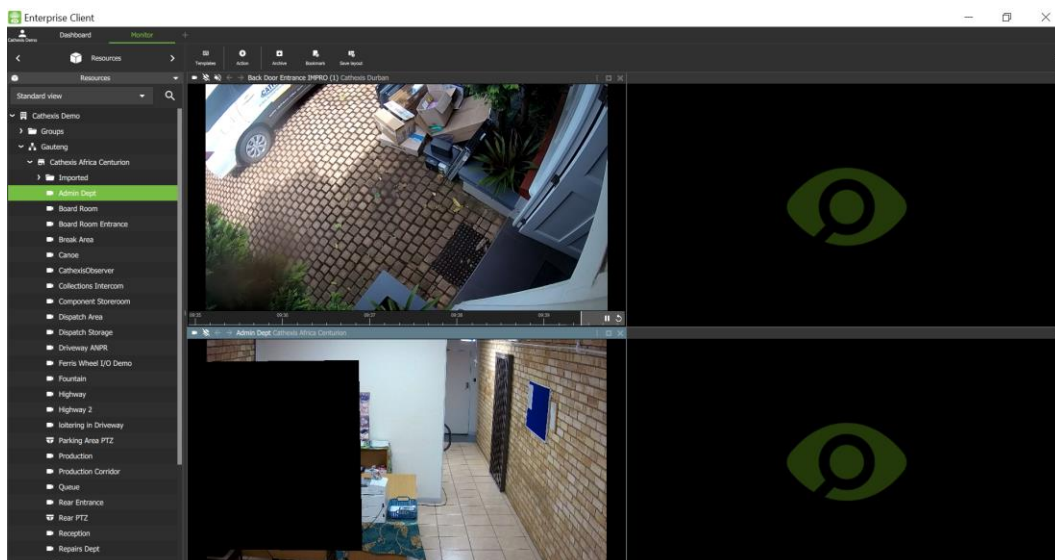
In the image which follows, the first camera is added from the **Cathexis Durban** site which is part of the KZN domain.



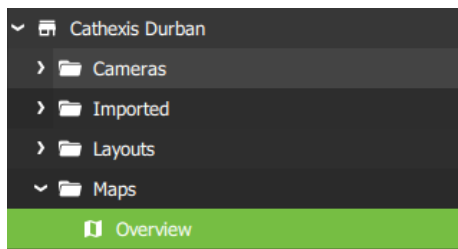
5.5.2.2 Step 2: Add a Resource from a Second Site

→ Return to the folder tree. Locate the **next site or domain** and resource. **Drag and drop**.

In the image below, the second camera has been added from the **Cathexis Africa Centurion** site. This is part of the Gauteng domain.



5.5.3 Adding a Map

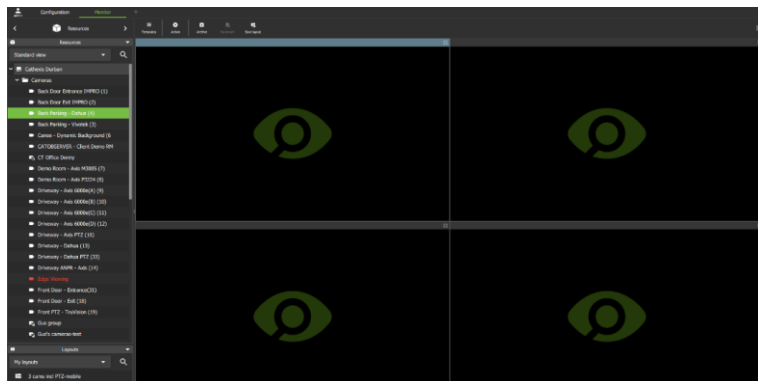


- From the folder tree, select the **folder or group** where the map is saved.
- **Drag and drop** the map into a display panel.

5.6 Auto Layout and Auto Add Selection

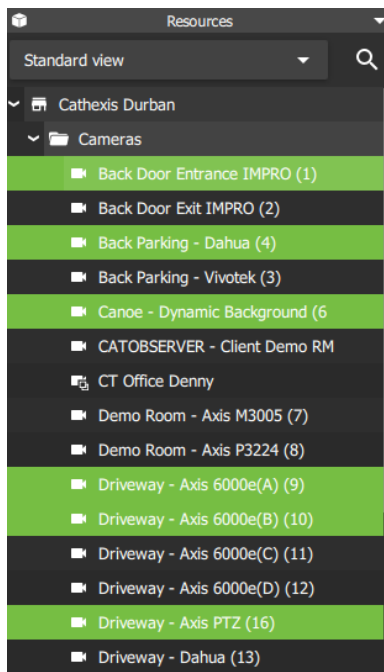
5.6.1 Add Selected Cameras Using Auto Layout

When adding cameras, it is not always necessary to create a layout or choose a template. Auto layout adapts the display to fit the number of cameras that are added.



Begin with **any template or display**.

Note: Panels containing video will be replaced.

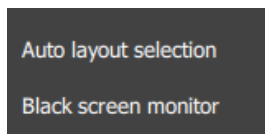


To select multiple cameras at once:

Ctrl + Click Hold down Control, and click non-consecutive (separate) items to include.

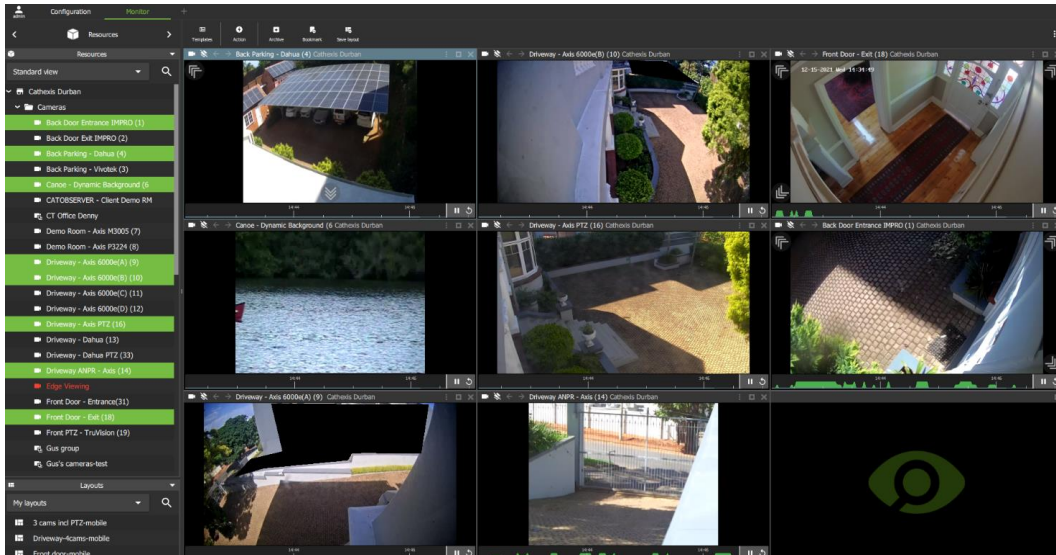
Shift + Click Hold down Shift, and click the first and last item in a list of consecutive items (next to each other). This will include all resources between the first and last clicked item.

→ **Right-click** on one of the selected cameras.



→ Select **Auto layout selection** from the drop-down menu which opens.

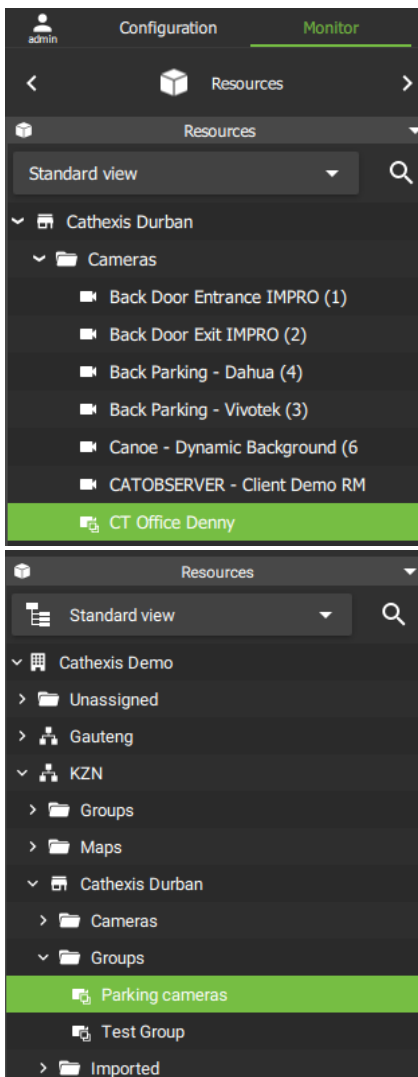
The cameras will open in the display on the right, as illustrated in the image on the following page.



5.6.2 Add a Camera Group Using Auto Layout

For existing camera groups, the auto layout feature places the cameras in display panels in a suitable format. There are two ways of adding a camera group to the display using auto layout.

OPTION 1: Right-click



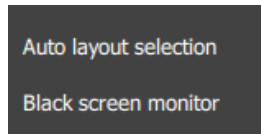
For a site connection:

→ Select the **camera group** from the list in the folder tree on the left.



Camera groups are indicated by the **groups icon**.

→ Right-click the group name.



→ Select **Auto layout selection** from the drop-down menu which opens.

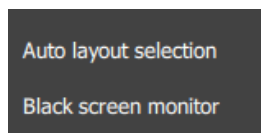
For MultiSite and Enterprise connections:

Camera groups have their own folder in the folder tree.

→ Select the site that the group belongs to.

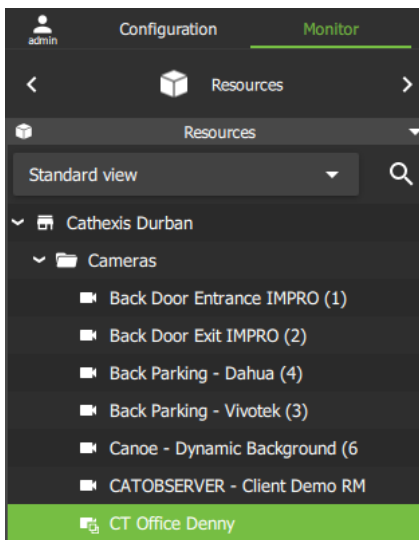
→ Select the Groups folder.

→ Right-click on the group name.



→ Select **Auto layout selection** from the drop-down menu which opens.

OPTION 2: Drag and Drop



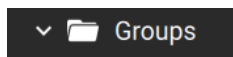
For a site connection:

→ Select the **camera group** from the list in the folder tree on the left.



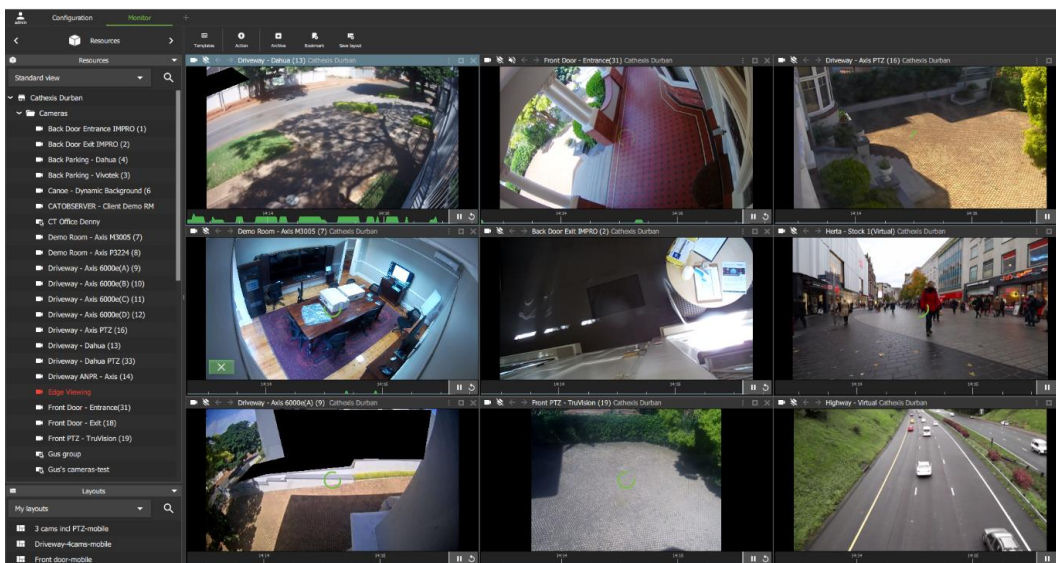
Camera groups are indicated by the **groups icon**.

→ **Drag** the item from the list into **any display panel** on the right side.



Note: Follow the same process for an Enterprise connection. However, first locate the Groups folder in the folder tree, then select the camera group.

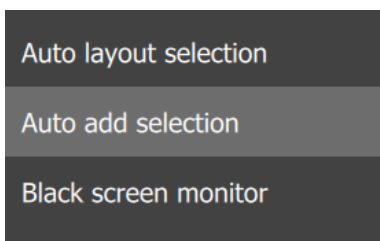
All the cameras in the group will open in the display on the right.



The camera group will replace videos in the panels.

Note: Camera groups can be created in the [Configuration tab](#).

5.6.3 Add Selected Cameras Using Auto Add Selection



→ After selecting multiple cameras, right-click.

→ Select **Auto add selection**.

The selected cameras will be added into available panels.

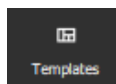
5.7 Event Black Screen Monitoring (BSM)

- When the Black screen monitoring (BSM) tool is used, only cameras which generate alarm signals activate footage in monitors. BSM allows video to be sent to a monitoring panel only when events are detected.
- Black screen monitoring in a CathexisVision system incorporates CathexisVision analytics, system events, and third-party integrations into this feature. Events may include, for instance, line crossing, object detection, or a third-party system event like a person entering a gate using an access control system.

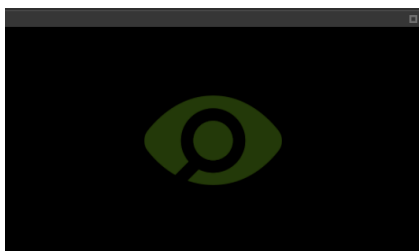


Note: Details of events may be viewed from the Database tab in Carbon, but configuration and setup must be managed from the CathexisVision client interface.

5.7.1 Add Cameras to Display for Black Screen Monitoring

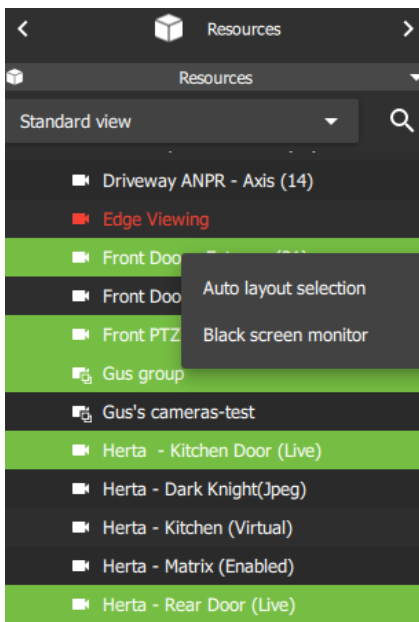


→ Choose a suitable template or use a single display.



→ Select a destination display panel by clicking anywhere within the panel.

This display panel will become active after selecting cameras.

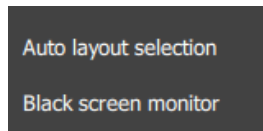


A user may select multiple items at once. To select multiple resources:

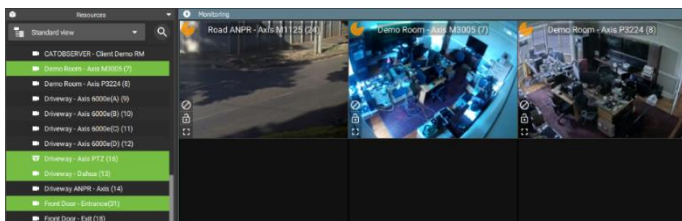
Ctrl + Click Hold down Control, and click non-consecutive (separate) items to include.

Shift + Click Hold down Shift, and click the first and last item in a list of consecutive items (next to each other). This will include all resources between the first and last clicked item.

→ **Right-click** on one of the selected cameras.



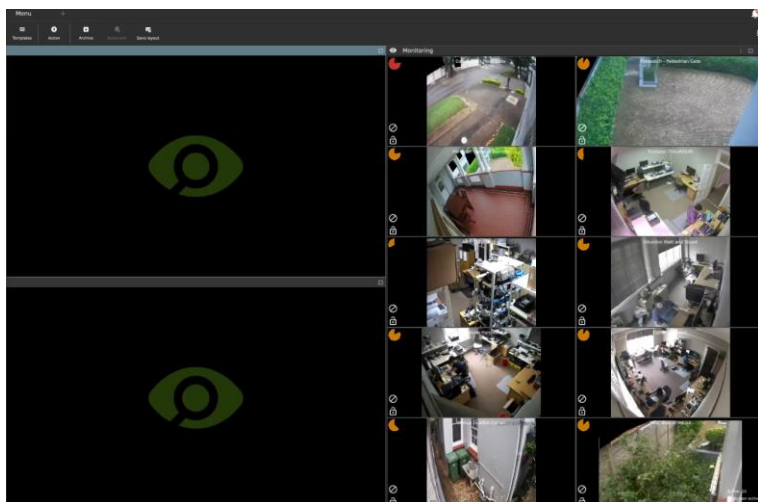
→ Select **Black screen monitor** from the drop-down menu which opens.



All selected cameras will display in the single selected display panel.

5.7.1.1 Open BSM Cameras (Live Mode) in Other Display Panels

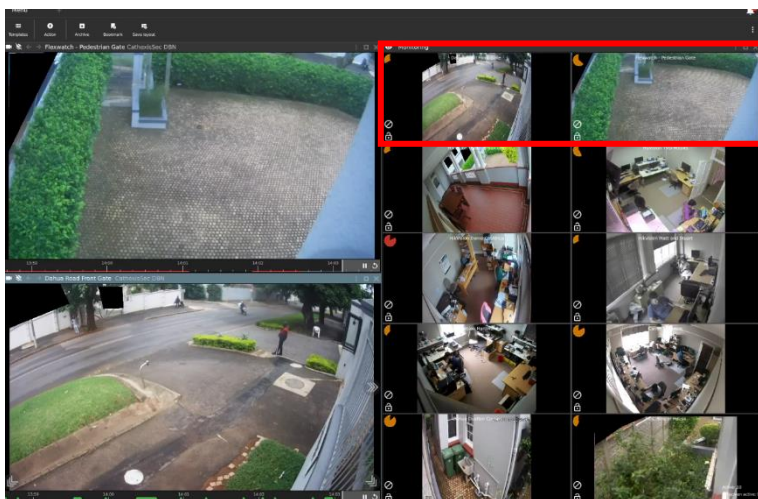
After black screen monitor cameras have been added to a display panel, it is then possible to open one of those cameras in live mode in another monitor panel.



In the example alongside, a template has been chosen with a larger vertical panel on the right, for the BSM cameras.

Two empty display panels on the left are available for individual cameras to be displayed.

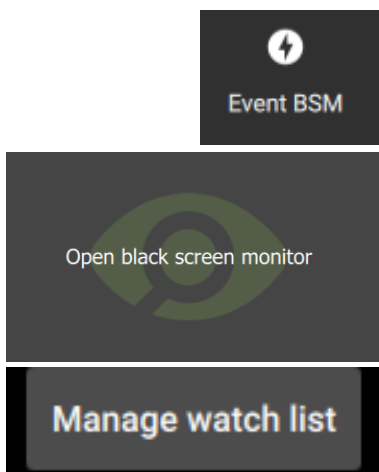
→ To display individual cameras, **left-click** a camera, and **drag and drop** into the empty display.



In the example alongside, the two cameras in the top row of the group were selected.

Then a drag and drop action was used to display the cameras in the two empty display panels on the left.

5.7.1.2 Add VMS Events and Event Groups to Black Screen Monitoring

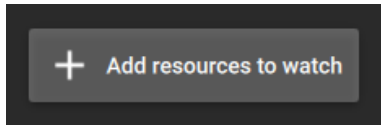


→ Select the **Event BSM** icon from the top section of the Monitoring tab.

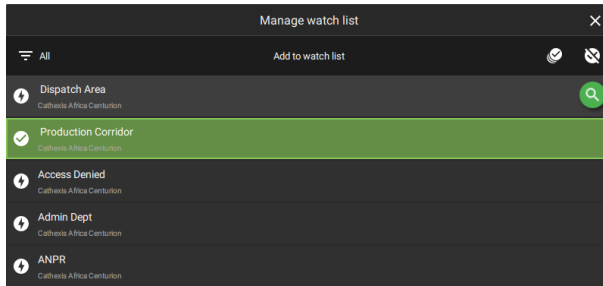
→ **Click** anywhere within the screen.

→ Click the **Manage watch list** button.

The watch list manager will open.



→ Click the **Add resources** button, or, click the plus icon in the top right.



→ **Select** relevant events or a VMS event group.



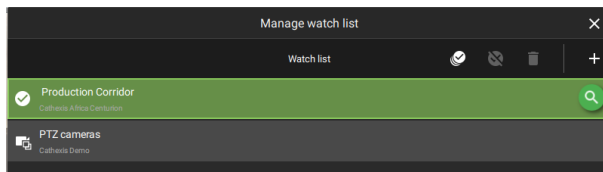
Click the tick button to confirm.



Click this icon to select all listed VMS events/groups.



Click this icon to unselect all VMS events/groups listed.



The recently added VMS event group will be added to the watch list.



Click the tick button to confirm.

Note: If a recently created event group does not appear in the list, check **Resource group** permissions in the [Configuration tab](#) to see access details.

5.7.2 BSM Settings

5.7.2.1 View Options and Icons

The following view tools and icons are available:



Click this icon to expand the black screen monitoring panel.



Click this icon to restore the black screen monitoring panel to its previous size.



Click the **cancel icon** to ignore the camera. This will hide the camera.



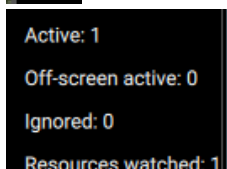
Click the **lock icon** to lock the cameras on screen, so that video footage will show in the black screen monitor panel without being triggered by an event.



Click the closed lock icon to **unlock** the camera, and return to default. The camera will only appear when triggered by an event.

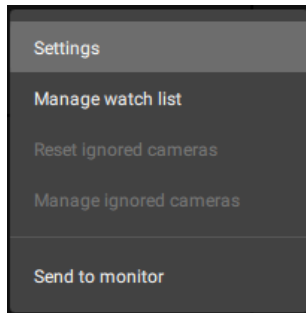


The **clock face** is a visual depiction of the remaining time the footage will display after the event, indicating the amount of time left since the alarm was triggered. Adjust expiry time and minimum display time to change the length of time.



View option changes will reflect in the overlay in the bottom right corner of the display panel.

5.7.2.2 Right-click BSM Menu Options



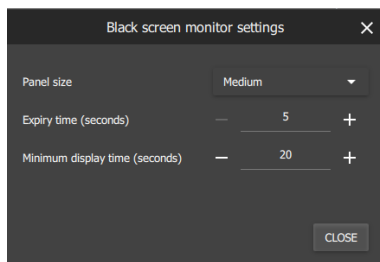
→ **Right-click** a display panel to access a drop-down menu.

Available options are:

- **Settings**,
- **Manage watch list**,
- **Reset ignored cameras** (if applicable),
- **Manage ignored cameras** (if applicable), and
- **Send to monitor**.

Settings

Click Settings to configure black screen monitor settings.



Adjust **Panel size** using the drop-down menu. Choose between:

- Small
- Medium
- Large

Adjust **Expiry Time** and **Minimum display time** (seconds) using plus and minus buttons.

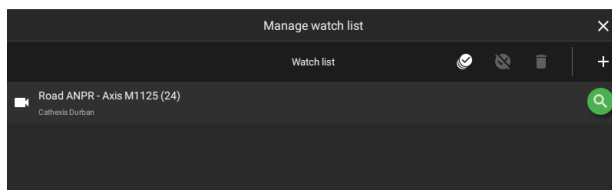
Expiry time is the length of time the camera remains displayed in the monitor after no further activity.

For example, using the settings in the image alongside, the camera feed will drop off the screen 5 seconds after the event/motion stops.

Minimum display time is a minimum length of time for all clips to be displayed.

→ Click CLOSE to finish.

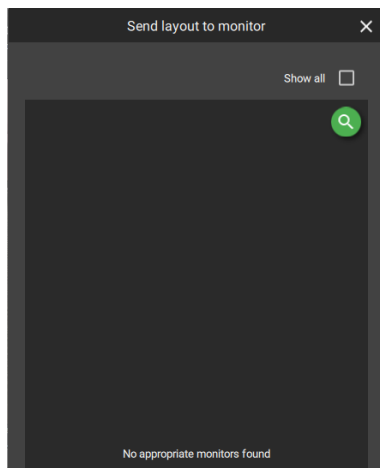
Manage watch list



Click manage watch list to add resources to or delete resources from a watch list.



Send to monitor



→ Click **Send to monitor** to send the layout being viewed to an available **site monitor**.

Any appropriate monitors will be shown.

→ **Click** the desired site monitor to which to send the layout/display.



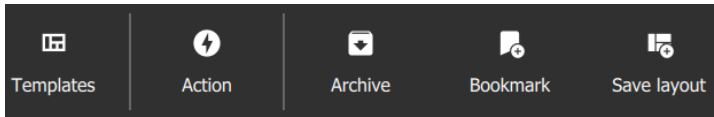
Note: Only cameras on the same local site as the site monitor may be displayed on the site monitor.

For more on the site monitor, see [5.11 Controlling the Site Monitor from the Monitoring Tab](#).

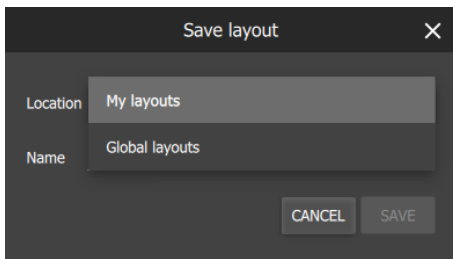
5.8 Save, Rename or Delete Layout

5.8.1 Save New Layout

The selected camera views and layout format can be saved to be viewed at a later stage. To save layout and camera views:



→ Click the **Save Layout icon** on the top menu bar.

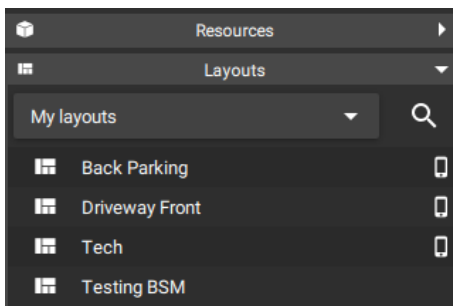


→ Choose a **file location**.

→ **Global layouts** are visible to other users using the Carbon GUI or CathexisVision Mobile. They are not compatible with the CathexisVision GUI.

→ Enter a descriptive name.

→ Click SAVE.

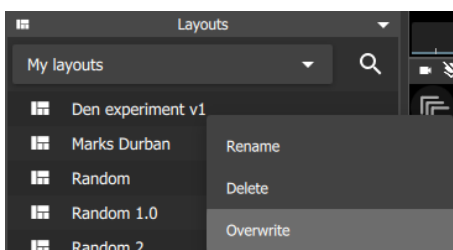


My layouts will only be available to the user who created them.

Note: Any layout created using Carbon or CathexisVision Mobile will be available in both the Carbon desktop and CathexisVision Mobile app.

5.8.2 Save Changes to Layout

It is possible to change the resources at any time and save over the existing file. To save changes:



→ Go to the **Layouts menu** on the left-hand panel.

→ **Right-click** the file/layout name.

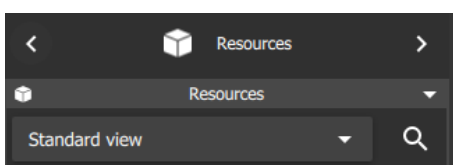
→ Select **Overwrite** from the drop-down menu.

→ Click OK.

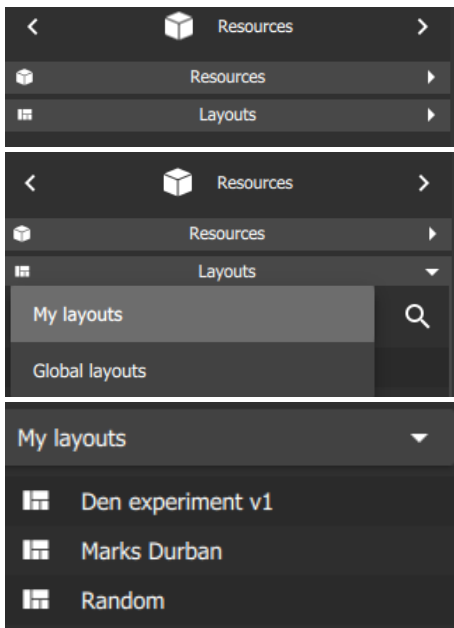
5.8.3 Locating Saved Layouts

There are two ways of locating a saved layout.

OPTION 1: Small Layout Menu Bar



→ Click the smaller **Resources menu bar** on the left of the screen to collapse the folder.

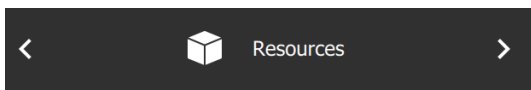


→ Click the **Layouts folder**, which sits underneath Resources.

→ **Select the folder** where the layout was saved.

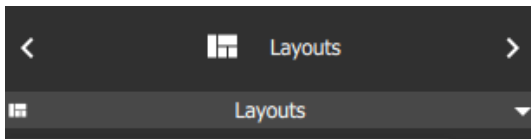
→ **Select the saved layout** from the menu on the left-hand side.

OPTION 2: Large Layout Menu Bar



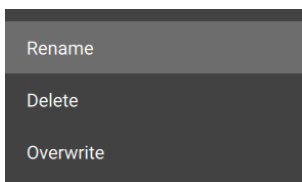
→ From Resources, **click the arrows** to scroll.

→ Click the right arrow twice.



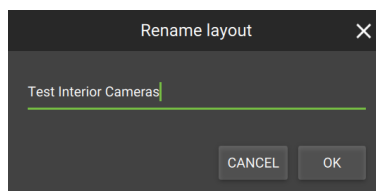
The Layouts menu should appear next.

5.8.4 Rename Layout



→ To rename a layout, right-click the layout name.

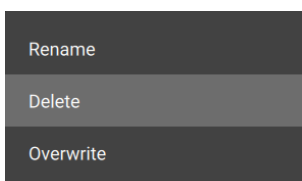
→ Click **Rename**.



In the dialogue that opens, enter the new name for the layout.

Click OK.

5.8.5 Delete Layout



→ To delete a layout, right-click the layout name.

→ Click **Delete**.

5.9 Viewing and Reviewing Cameras

Users may view live camera feeds and review recorded footage *at the same time* using multiple display panels.

- Live mode allows the user to view a camera in *real time*.
- Review mode allows *recorded video* to be searched, tagged, bookmarked, and archived.

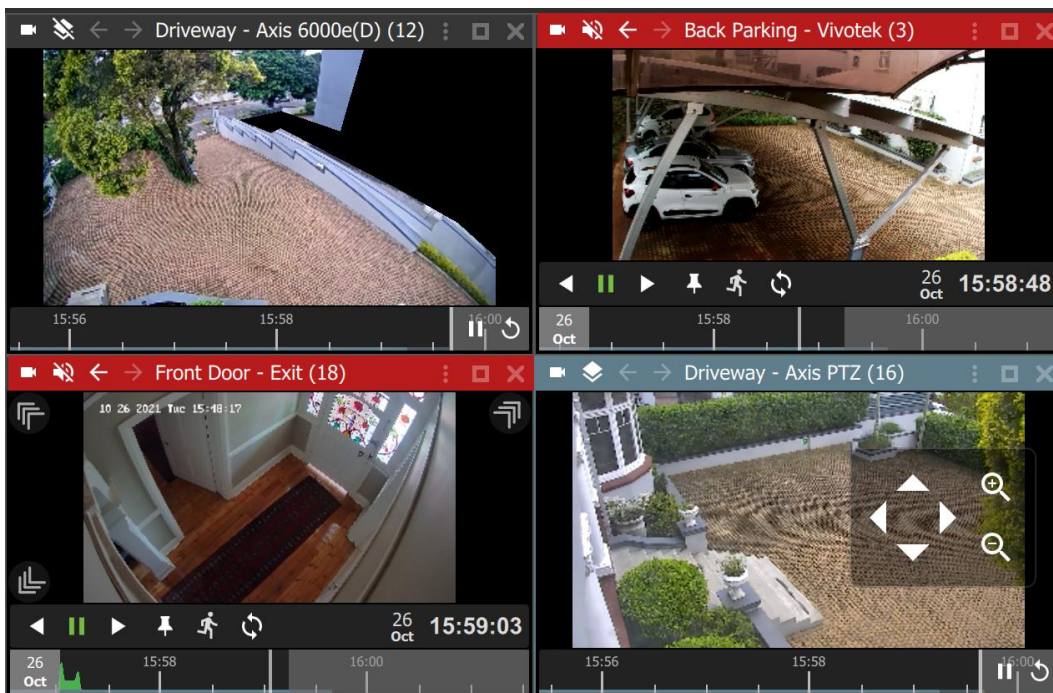
This section contains a description of the main display and a short glossary, followed by detailed instructions for search tools. The supported Smart Search features are [Snap search](#), [Motion quick search](#), [Motion search](#), and [Feature Search](#).

5.9.1 Camera Panel Display

Cameras will display according to the chosen saved layout, or template as selected. Cameras can be added and removed at any time. Live and review modes can be viewed simultaneously as illustrated below.



This icon indicates that there is packet loss on the camera.

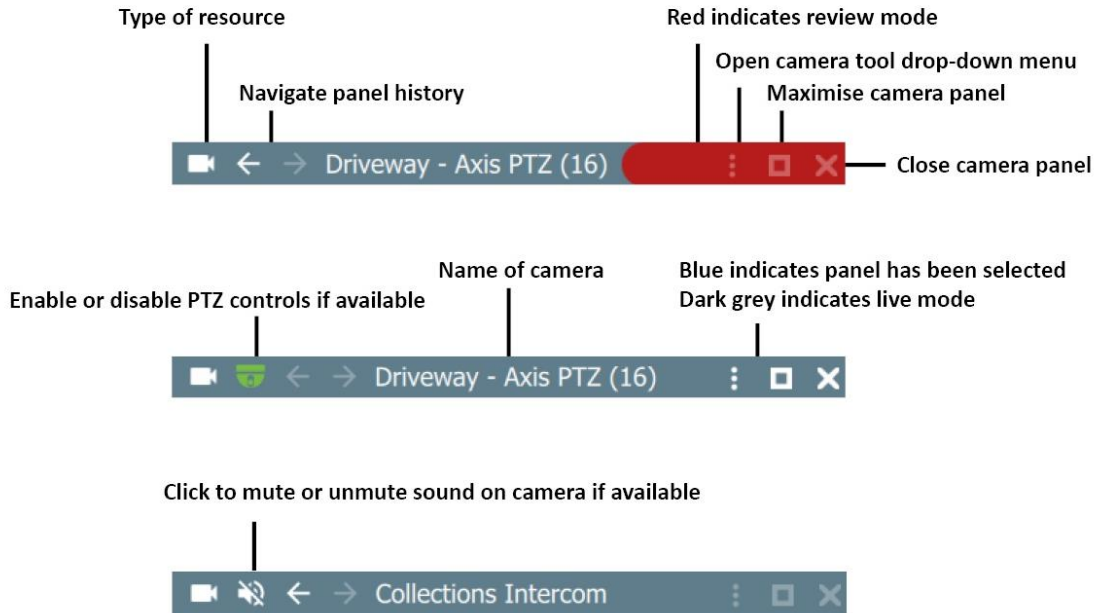


Top Bar Colours

	4 - Parking View Site B	Review mode	Not selected
	1 - Undercover Parking Site B	Live mode	Not selected
	4 - Parking View Site B	Review mode	Selected
	1 - Undercover Parking Site B	Live mode	Selected
Note: For an Enterprise or MultiSite connection, the top bar will also indicate which site the camera is from:			
	Back Parking - Vivotek (3)	Cathexis Durban	
	Board Room	Cathexis Africa Centurion	

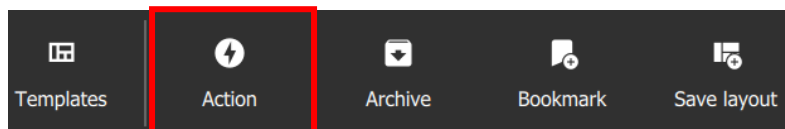
5.9.1.1 Display Panel Top Bars

The top bar indicates mode by colour, and can be used to access menu items, overlays, sound settings, or to enlarge a display panel. See the diagram below for details.

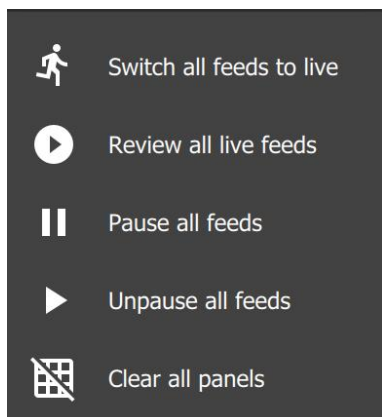


5.9.1.2 Switch Between Live Mode and Review Mode

Action Icon



Click the **Action icon** on the top panel to switch between modes.



Select from the drop-down menu.

Click **Switch all feeds to live** to change all review feeds to live mode.

Click **Review all live feeds** to view all feeds in review mode.

Click **Pause all feeds** to pause all feeds in the layout.

Click **Unpause all feeds** to unpause all feeds in the layout.

Select **Clear all panels** to remove cameras from the display panels in the template.

Alternatively, to switch a selected camera from live to review mode, double-click the timeline. The review controls will appear.



Click the live icon in the review controls to return to live mode.

5.9.1.3 New Display/Single Panel Menu Icons

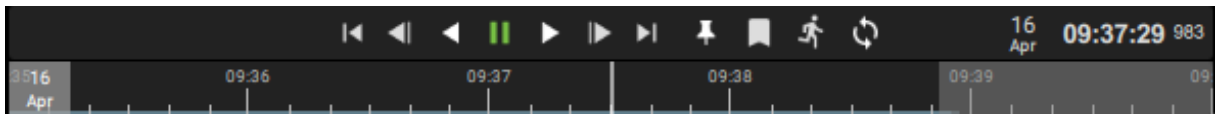


If a camera has been opened into a single panel display, clicking the **minimise/small square** icon will return the user to the layout.

The **close/cross** icon will close **all** cameras, including the Layout. Open a Layout to start again.

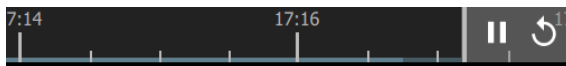
5.9.1.4 Timeline

The timeline bar underneath the camera feed represents chronological time, and is interactive for searching in review mode.



Live mode

In live mode, the timelines in the view screens will move in real time.



ICON	FUNCTION
	Click Pause live icon to hold an image in place.
	Click the Skip icon to skip back five seconds.

Review Mode

In review mode, the timeline can be used to search footage by scrolling left and right. The timeline indicates the ongoing live recording, by showing future time in grey as depicted below.



5.9.1.5 Timeline Key

SYMBOL	DESCRIPTION
	The thin blue line at the bottom of the bar indicates that there are recordings available (non-event recording).
	No blue line indicates no recordings. No blue line may indicate that a connection is down. Use the dashboard tab to view status.
	The grey area at the end of the timeline represents future time.

	<p>The vertical bar indicates the end of the timeline in live mode, and corresponds with present time.</p>
	<p>A red line indicates event recording.</p>
	<p>The green graph indicates motion. More motion is depicted by a higher crest.</p>

5.9.1.6 Zoom in or Out on Timeline to Adjust Time Frame

- The time frame, represented by the timeline bar, can be adjusted ranging from days to seconds.
- The zoom in/zoom out function is available on a mouse with a scroll tool.

First, **click on the timeline** to select.



Note: If the display panel is selected, rather than the timeline, using the scroll tool on the mouse will enlarge or reduce the scale of the image in the display.

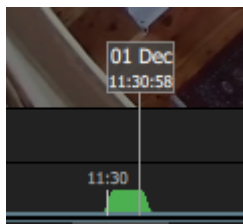


Narrow the time frame (zoom in) by **scrolling up** with the wheel.



Widen the time frame (zoom out) by **scrolling down** with wheel.

5.9.1.7 Date and Time Pop-up on Timeline



Hover over a point in the timeline to see the date and exact time. A pop-up will appear.

Click to **skip** to the date and time indicated by the pop-up.

5.9.1.8 Digital Zoom on any Monitor

It is possible to zoom in on any camera using *digital* zoom.

Alternatively, to zoom in by *controlling* a PTZ camera, see the instructions in the next section: [5.9.1.9 PTZ Control Using PTZ Overlay](#).



To zoom in digitally, **click on an area in the display** e.g. the top right corner.



Then, use the **scroll tool** on the mouse to **zoom in** on the selected area.

An *orange dot* will indicate the centre of the zoom area.

The relative position within the video will be indicated in green in the bottom left of the frame.



Click the cancel icon the return the monitor to its original view.

5.9.1.9 PTZ Control Using PTZ Overlay

If a Pan-Tilt-Zoom camera is added to the display, it may be possible to control the camera remotely depending on user permissions.

This subsection shows how to use the PTZ controls that appear in the main display. For information about how to use the PTZ menu bar that appears on the left-hand side, see [5.9.13 PTZ Menu](#).

PTZ overlays only function in live mode, and only on PTZ cameras.

Enabling PTZ Control

OPTION 1: Overlay Icon



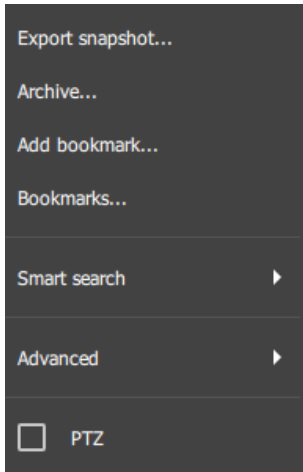
Click the **overlay icon** on the top menu bar in the display panel.

The icon will turn green when overlays are enabled and the PTZ control overlay will appear in the main display.

OPTION 2: Right-click

Right-click a display panel to see the drop-down (context) menu.

Note: For a full breakdown of all options in this menu, see [5.9.1.13 Camera Tools Menu](#).



Click in the **PTZ checkbox** to select.

Note: This function will only be available if the camera on the selected display has pan-tilt-zoom capability.

Using PTZ Controls



To change the direction of the camera, **single click** the arrows, or, use a **long hold** on the arrows.

Pull the central control like a joystick to move the direction of the camera.



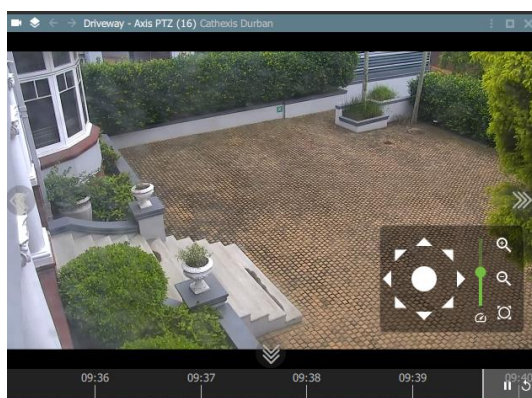
To zoom in or zoom out, **single click** or use a **long hold**.

On smaller displays, a limited control tool is available, as shown in the image on the left.

5.9.1.10 Area Zoom an Axis or Dahua PTZ Camera

The area zoom tool is a quick way of controlling the camera when a user wishes to zoom in on a specific area.

- Instead of using the controls, and manually adjusting the camera, it is possible to draw a frame around the area on the display on Axis PTZ cameras.
- This is currently only supported for Axis and Dahua PTZ cameras.
- This feature will only be available if the user/role has PTZ permissions.



PTZ overlay must be **enabled**.

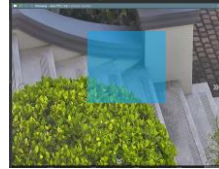
The display must be in **live mode**.

Note: This feature is only available on **Axis and Dahua PTZ cameras**.



While holding down **Shift**, **draw a frame** around the zoom area.

Release, and wait a few moments for the camera to zoom in on the selected area.



Once zoomed in, this process can be repeated to zoom in closer until the camera has reached its maximum zoom range.

Note: The scroll tool may also be used for *digital* zoom.

5.9.1.11 Adjacent Cameras Tracking Tool

The adjacent cameras feature allows operators to navigate quickly between cameras.

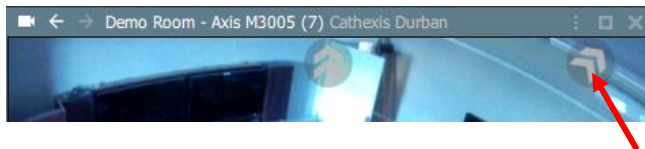
- This feature can be used to follow a person in **real-time** using linked cameras.
- Adjacent cameras can also be used in **review mode** to track an incident, for example, an intruder or object moving around a property.



Adjacent cameras appear over the camera image as a **double arrow** with a label in the direction of the camera, as configured in CathexisVision by the site administrator.



An orange adjacent camera arrow indicated motion has been detected in the adjacent camera's field.



Hover the mouse over the display to show arrows and labels.

Click the arrows to view the nearby camera in the direction an object is moving.

Tip: Use adjacent tracking in combination with tagging and archiving features to save a sequence. For step-by-step instructions see [5.9.3 Archiving](#).

5.9.1.12 Open Adjacent Cameras in a New Display Panel Using a Middle-Click

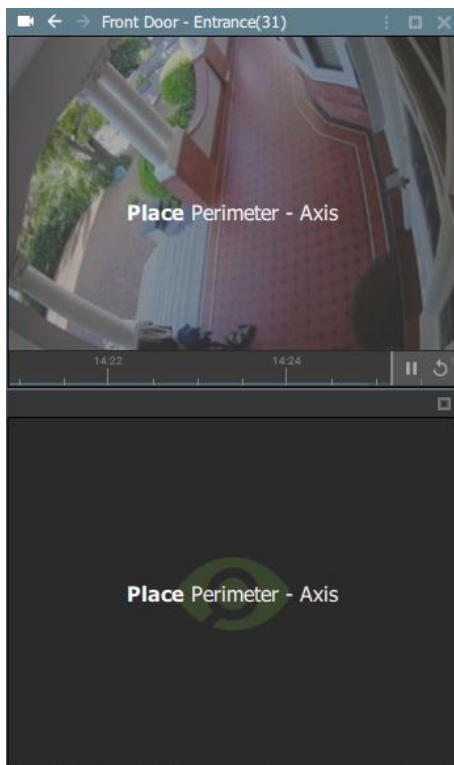
To open adjacent cameras in a new display panel, first choose a template or layout with space for additional display panels.



→ Hover over the adjacent camera arrow.

The name of the camera will appear: in the example alongside, the adjacent camera is named “Perimeter – Axis”.

→ **Middle-click** on the **arrows**. Use a middle button on the mouse or click with the scroll tool.



The screen will become greyed out, and the **Place** instruction will appear, along with the name of the adjacent camera.

→ **Left-click** a **display panel** to **Place** the adjacent camera.

This will place the selected adjacent camera in the *new display panel*.

(Note: Simply clicking on the adjacent camera icon would cause it to replace the stream shown in the original display panel.)

5.9.1.13 Camera Tools Menu

There are two ways to access the drop-down camera tools menu.

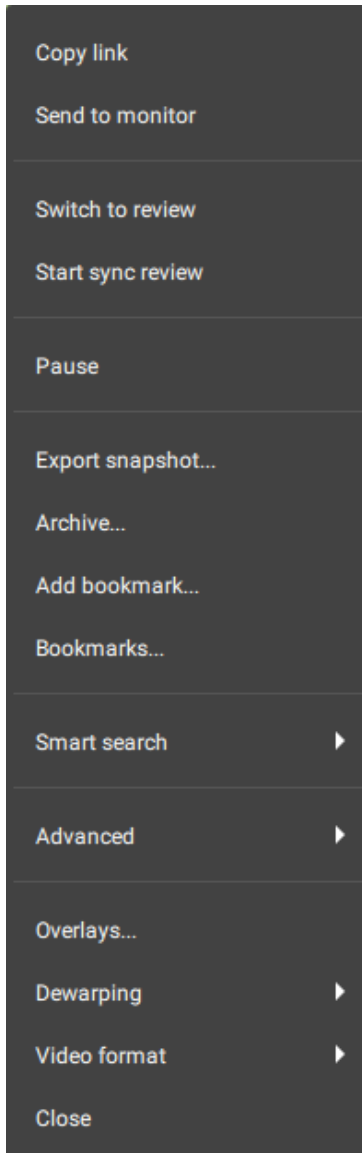
OPTION 1: MENU ICON



From the camera panel, select the inset menu icon on the right-hand side.



OPTION 2: RIGHT-CLICK (CONTEXT MENU)



Right-click within a display panel.

The drop-down (context) menu will appear.

5.9.1.14 Glossary of Camera Tools

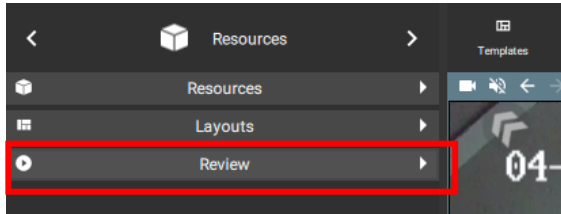
The following tools and settings options are available when viewing or reviewing cameras.

LABEL	DESCRIPTION
Copy link	Create a link. Once this has been selected, the link can be pasted into another display panel. Note: Once the link has been copied, the option to paste the link remains in the menu.
Send to monitor	Send the camera stream being viewed/displayed to a site monitor.
Switch to review	This allows switching back and forth between live and review footage.
Start sync review	This feature allows simultaneous (synchronized) review, by selecting one display then adding another.
Pause/ Unpause	This stops or starts streaming both live and review feeds. Use this for connections with limited data.
Export snapshot...	Open a window to print snapshot, save to folder, copy to system clipboard, or copy to clipboard. The user may choose to include the camera name and time of snapshot in the overlays.
Archive...	Save and export a video segment.
Add bookmark...	Add a bookmark to preserve camera layout at a point in time; cameras which were live at the time of bookmarking will switch to review.
Bookmarks	Bookmarks can be viewed and managed in the bookmarks section.
Smart search	This groups the intelligent search features on this system: Snap search, Motion quick search and Motion search, and Feature Search.
Snap search	Use a grid of still images to search for an object or incident by narrowing the search range until the incident appears in the frame.
Motion quick search	Draw a frame (or mask) within the display and search for motion within that area only.
Motion search	Draw multiple frames (masks) within the display and search for motion within those areas. Motion search opens the search feature in a new window.
Feature search	Send an image from the Monitoring tab to the Feature search tool in order to find similar/matching images.
Advanced	In live mode, the user may view connection logs.
Overlays	Configure camera overlays. Note: Use a PTZ overlay where applicable to control the camera.
Dewarping	Enable or disable dewarping settings on a fisheye camera. Dewarping transforms the view from the full fisheye view (a circle) to a flat view.
Video format/quality	Live mode: The user may select camera video stream format. Review mode: The user may select the camera video stream resolution they wish to view.
Video quality	The user may select the camera video stream resolution they wish to view, in review mode.
Close	Close the camera stream.

5.9.2 Review Tools

5.9.2.1 Review Menu

In review mode, a review menu will become available on the left-hand side of display.



Click the bar to open the menu.



When reviewing footage, the user may use this menu as an alternative to the toolbar in the main display.

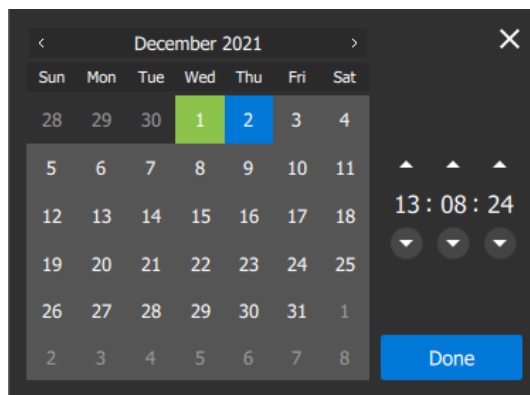


Click the **arrows** to adjust time and date of playback.



Click the **clock icon** to bring up the date and time menu using the calendar.

Calendar Tool



The calendar will open in a new dialogue box.

Click to **select a date**, or **scroll** to change the month and year.

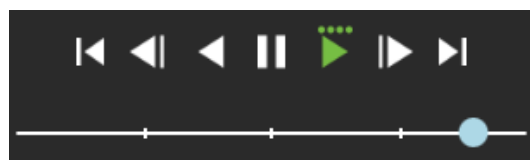
Click **Done**.

Adjust Playback Speed



Use the playback speed tool to change how footage is reviewed.

Drag the slider to the **left**, (past the vertical lines) or click (up to four times) on the play backwards arrow to **increase the speed** while playing **backwards**.

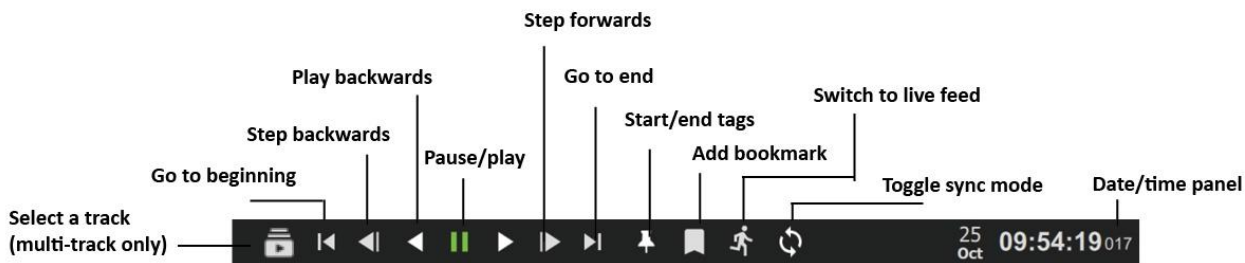


Drag the slider to the **right**, (past the vertical lines) or click (up to four times) on the play arrow to **increase the speed** while playing **forward**.

Four dots indicate the maximum speed.

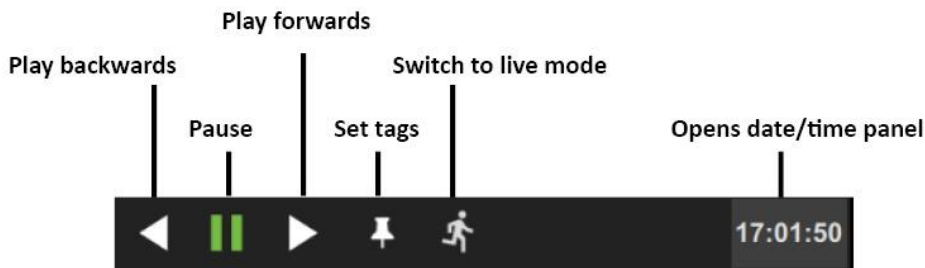
5.9.2.2 Review Controls for Larger Displays or Single Display Panel

In review mode, more comprehensive controls are available on larger displays than smaller displays. To see even more features on the controls, Motion Quick Search can be used.



5.9.2.3 Review Controls for Smaller Displays: Compact Mode

When camera feeds are being viewed in a layout with many display panels or on a smaller screen, the review mode shows a simplified tool bar.



To view more comprehensive review tools from a smaller display, double-click a camera to enlarge the view, or click the maximise icon in the top right of the panel. The main display will change from the saved layout or template to a single display.

Do the same on the enlarged display to return to the smaller display.

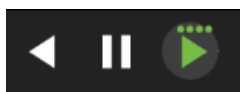
5.9.2.4 Adjust Playback Speed

Use the review controls to adjust the playback speed.



Click the play button once to play forward at normal speed.

Additional short clicks will **increase playback speed**. An increase in speed is indicated by a dot.



Four dots indicate the maximum playback speed.



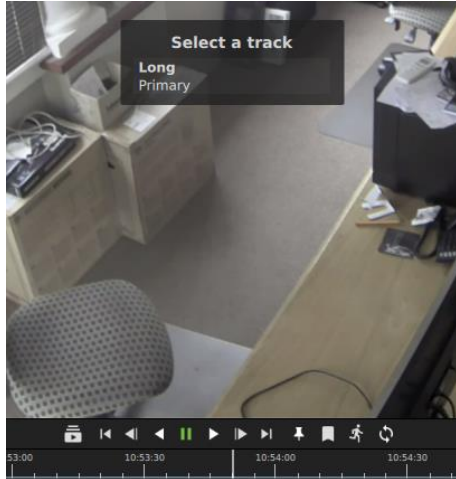
Speed can also be increased when playing backwards.

5.9.2.5 Select Tracks on a Multi-Track Camera

If multiple tracks are available on a camera, the **Select track icon** will appear on the controls.



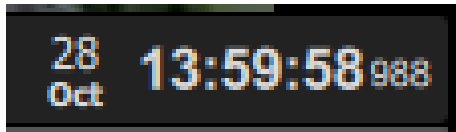
→ Click the icon to select a track.



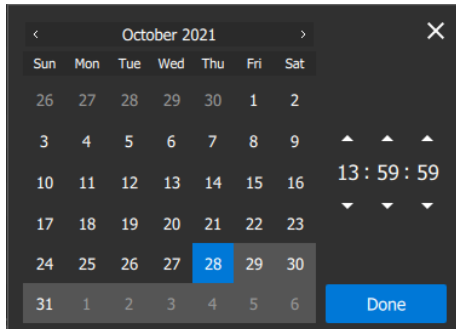
A list will show on the display.

→ Click an option to select a track.

5.9.2.6 Date and Time Panel



To skip to a known point in time, click the date/time panel in the bottom right corner.



Click the date on the calendar that appears in the bottom left corner, and adjust the time using the arrows.

Click Done.

The footage for this date and time will appear in the main display.

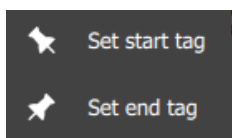
5.9.2.7 Using Tags

The tags feature is used to demarcate a segment of recorded video of interest. Once a segment is demarcated, it can be bookmarked or archived, and exported.

Locate the beginning of the sequence of interest and display it in the panel.



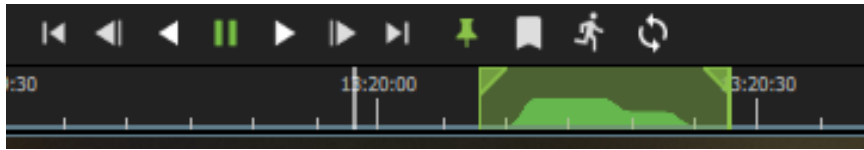
→ Click the tag icon on the review control panel. This will bring up the start and end tag option.



→ Click **Set start tag**.

→ Locate the end of the segment. Click **Set end tag**.

The tags will be displayed on the motion graph.



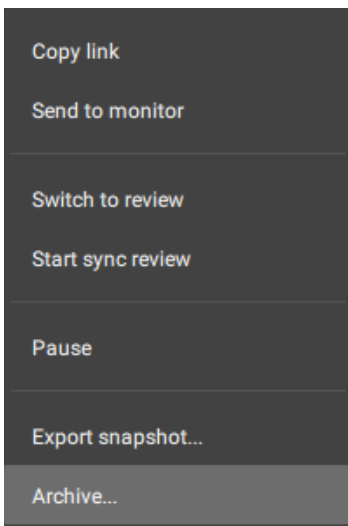
Beginning and end points can be adjusted by dragging the tags on the timeline.

Note: Tags will not save after the session or in a bookmark.

5.9.2.8 Archiving a Tagged Segment



- Set start and end tags.
- **Right-click** on the display.



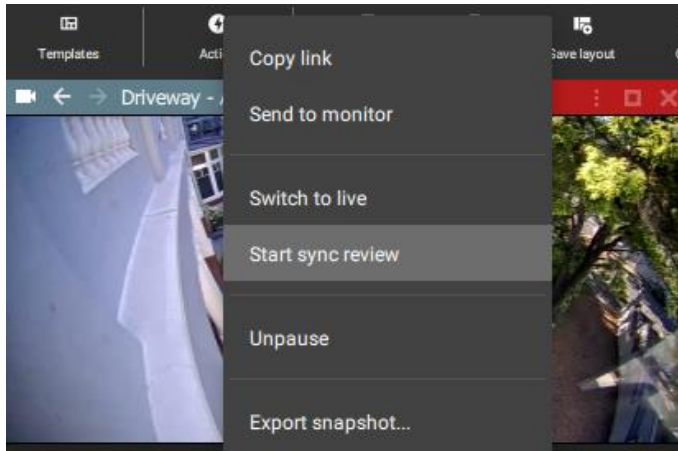
→ Select **Archive**.

This will send the tagged segment to the Archive Builder.

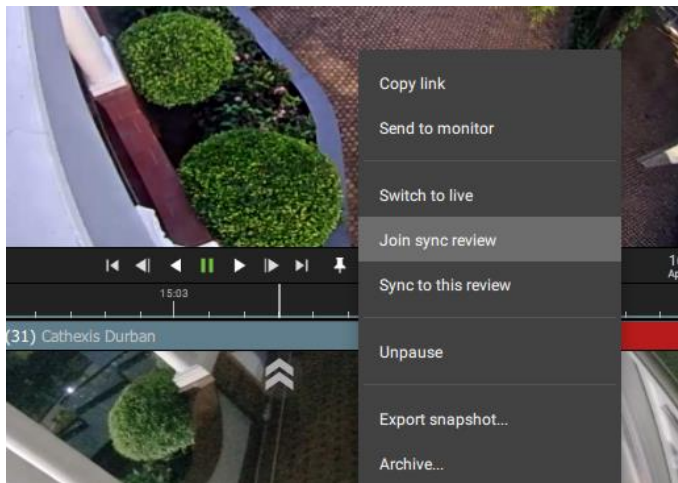
Note: For more information about archiving, see [5.9.3. Archiving](#).

5.9.2.9 Synchronised Review

Layouts allow the independent or synchronised review of single or multiple cameras. Cameras must be in review mode.



- To initiate synchronised review, **click a camera in a display panel** to select.
- **Right-click** the display panel to see the drop-down menu.
- Select **Start sync review**.



- Choose another camera to sync.
- Click the **display panel** to select.
- **Right-click** to see the drop-down menu.
- Select **Join sync review**.
- The two cameras will now be synchronised for recorded video footage.

Toggle Sync Mode

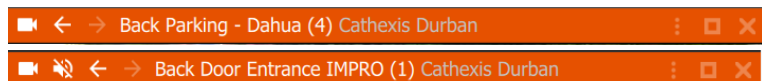


To quickly add a camera to synchronised review, click the Toggle Sync Mode button in the timeline panel.



The icon will change to orange when the camera has been added to sync mode.

For cameras in synchronised review, the top display panel will turn orange.



5.9.3 Archiving

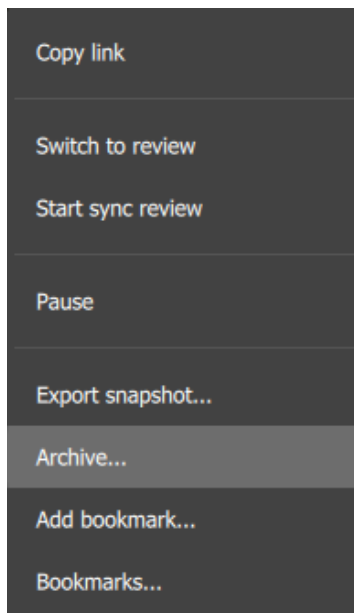
Archiving allows a selection of camera footage to be *saved and exported*.

5.9.3.1 Initiating Archiving

There are three ways to initiate archiving.

In the review mode, scroll to the recorded video footage to be archived.

OPTION 1: Right-click footage

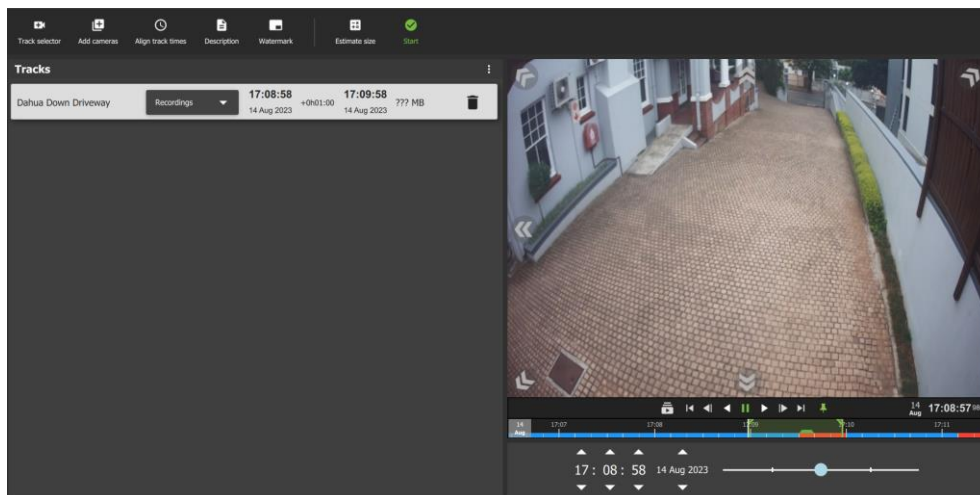


→ **Right-click** within the **display**.

→ Select **Archive...** from the options.

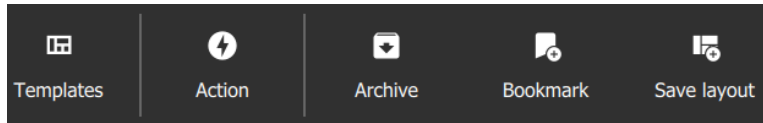
The **Archive Builder** will open in a new tab.

One or more cameras will be shown in a list in the central panel.



OPTION 2: Select the Archive Icon

To archive footage using the Archive icon, first click a **point** on the **timeline** beneath a display. Then navigate to the **menu** along the top of the display.

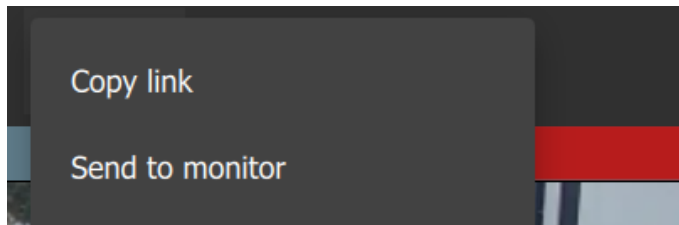


Click to select the **Archive icon**.

The **Archive Builder** will open in a new tab as above.

OPTION 3: Copying a Link into the Archive Builder

A link can be added into the Archive builder once it is open. Add a segment to the archive by copying a link from a review screen.



Right-click a display in review and select **Copy link**.

There are two ways to add a link to the Archive builder.

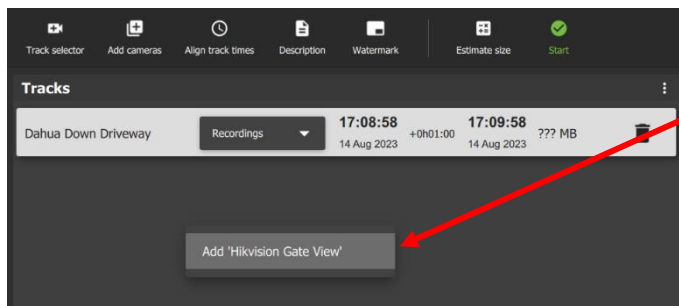
In the Archive builder:

Option 1:

→ **Right-click** underneath the list.

The link will appear.

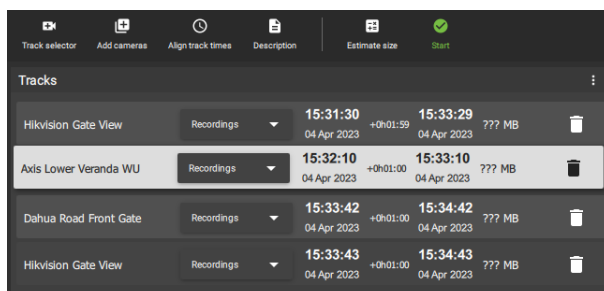
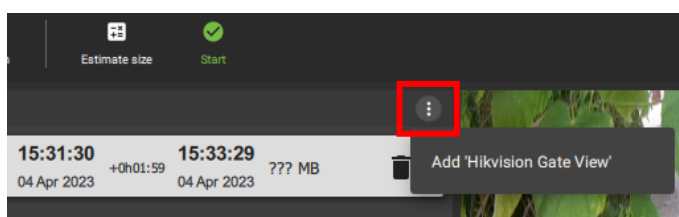
→ **Select** the option to **Add the link**.



Option 2:

→ Click the menu icon at the top right side of the Archive builder.

→ Select the link when the pop-up appears.

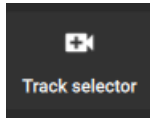


Multiple links from different cameras can be added to the same Archive builder.

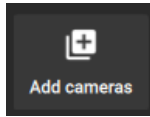
They will be added in chronological review order regardless of the order in which they were added to the Archive builder.

5.9.3.2 Adding Cameras in the Archive Builder

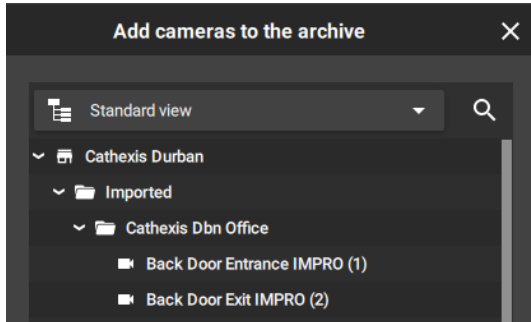
Use the icons to add additional cameras to the archive builder.



→ To archive only one additional camera, click the **Track selector icon**.



→ To archive multiple additional cameras at the same time, click the **add multiple cameras icon**.

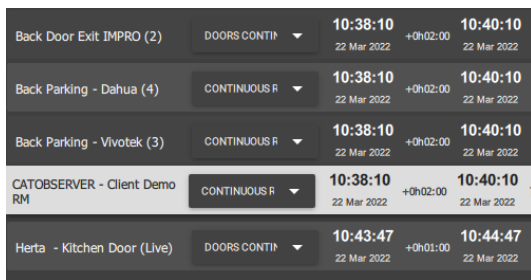


A new dialogue box will open.

→ **Select** the camera/s from the **folder tree** on the left.

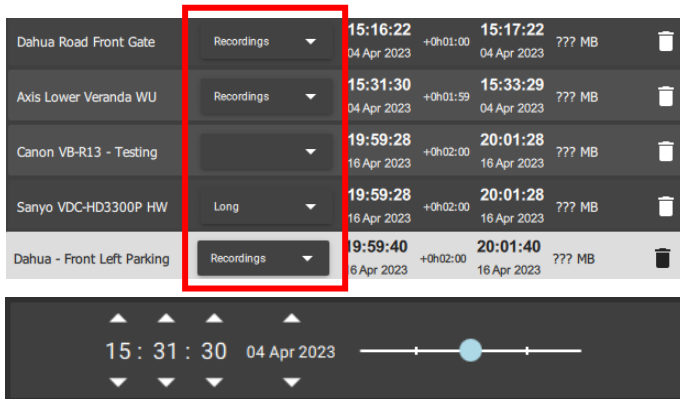
→ Select multiple items using **Shift+click/ Ctrl+click**.

→ Click **ADD**.



The cameras that have been added using the **add camera icon** or **Add multiple cameras icon** will show in a list in in the Archive Builder.

5.9.3.3 Playback in Archive Builder



→ Select the camera storage option available when clicking the drop-down box.

→ Use the playback speed tool to change how footage is reviewed.

→ Drag the slider to the **right** (past the vertical lines) to **increase the speed** while playing **forward**.

→ Drag the slider to the **left** (past the vertical lines) to **increase the speed** while playing **backwards**.



Maximum speed is indicated by four dots.

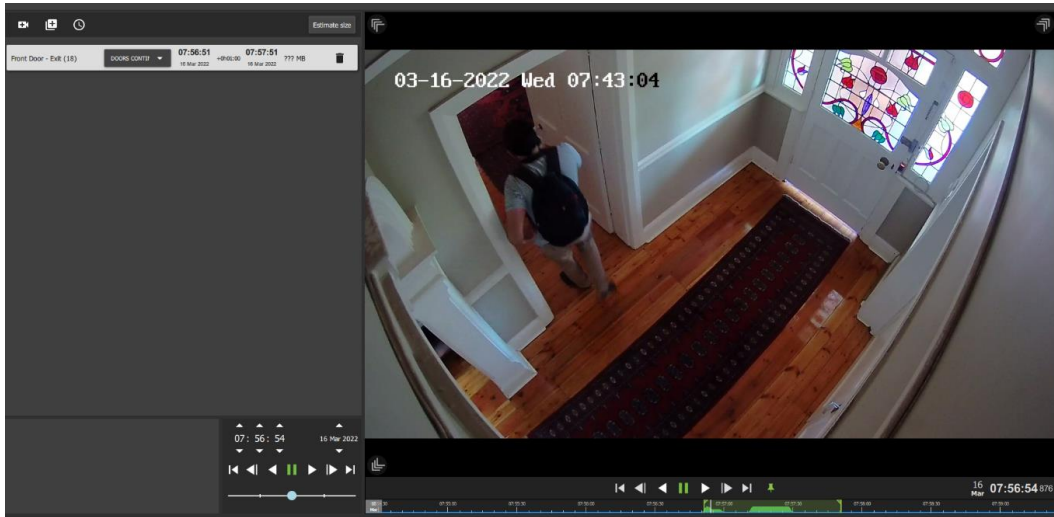
→ Click **Export** to bring up the archive window.

5.9.3.4 Adding Segments in Archive Using Adjacent Cameras

The adjacent camera mapping tool works *in the Archive builder* and can be used to add additional cameras to archive. (An alternative method is to use *tags* together with adjacent cameras to send linked segments to the archive builder from the *main display*.)

Follow an incident using adjacent camera mapping from *within the Archive builder*, and add each camera relevant to the incident to the archive so that the incident can be exported.

The view below shows a man walking into a room. Nearby cameras will be shown as two small arrows.

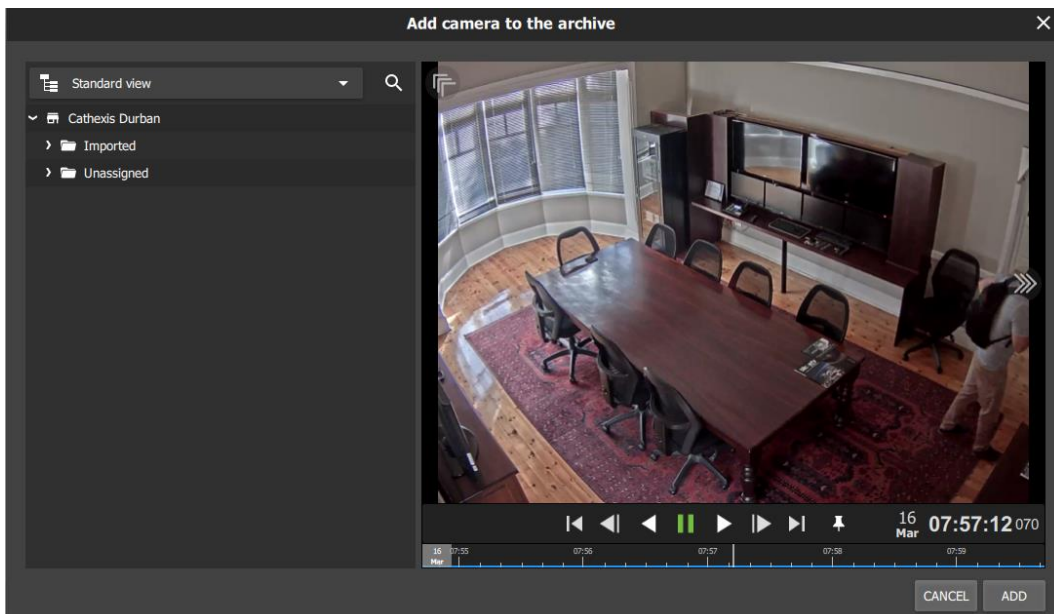


Choose the arrows that are pointing in the direction that the person or object is moving.

→ Using the mouse, **hover** over the arrows to see the name of the nearby camera.

→ **Click** the arrows to change the camera view.

The adjacent camera will then show in the viewer.





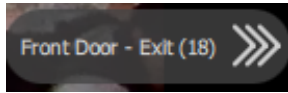
Play forwards or backwards to **watch** the video segment.

Pause before the moving person exits the camera view.



Click **ADD** to add this camera view to the archive.

The view will return to the main archive builder with a camera view of the end of the last segment.



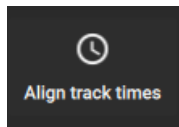
Repeat the steps to **continue tracking** the moving person: click the **next adjacent camera** in the direction the person is moving to add an additional camera to the archive.

Click **ADD** to complete the step.

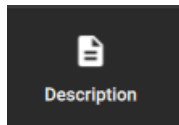
Note: When exporting, note that only archive/CAR files support multiple tracks.

5.9.3.5 Saving and Exporting

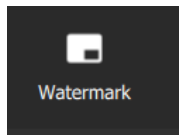
Prepare the Files for Exporting



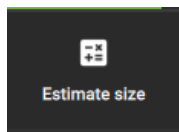
Use the **Align tool** to make all recordings in the list start and end at the same time.



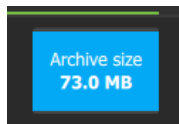
Click the **Description** icon to add additional information to the file before saving.



Click the **Watermark** icon to add a watermark to the files.

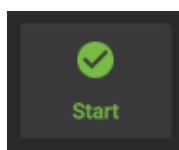


Click **Estimate size** before exporting to see how much space the recordings will require.



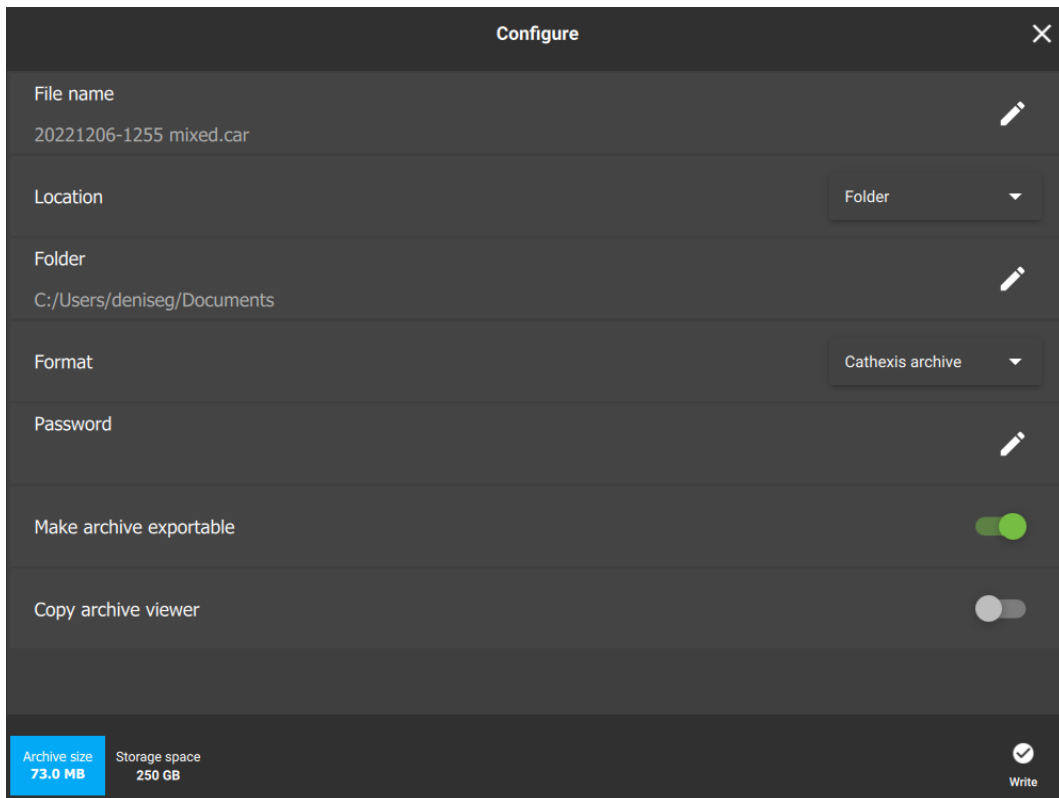
The total size of all recordings will show in the top section.

Export the File/s



Click **Start** to Export the file/s.

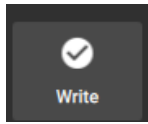
A new window will open with configuration settings.



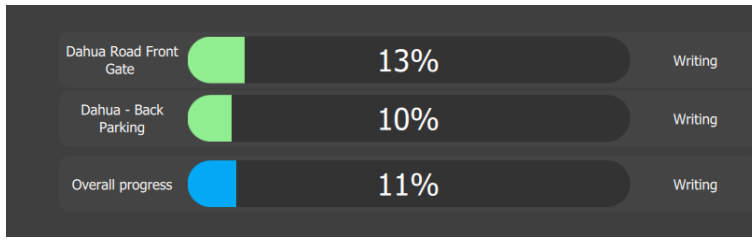
Click the edit icons or drop-down menu arrows to adjust the settings.

See the table below.

ITEM	SETTING
File name	Give the sequence a descriptive name.
Location	Choose between Folder or Optical disk.
Folder	Browse the computer or network and choose a destination folder to save the file.
Format	Choose between a Cathexis archive (CAR) file or a Media file.
Auto redact faces	Toggle the switch to turn Auto redact faces on and off. Auto redact faces blurs the identity of faces when detected. Only Media (MP4) files support this feature. Note: This feature is not recommended for fast processing or large files.
Password	Add a password for the file if necessary.
Make archive exportable	Toggle the switch to make the file exportable.
Copy archive viewer	Toggle the switch to copy the archive viewer.



→ Select the **Write** button to complete the archiving process.



Select **cancel** when the progress bars reach 100%.

5.9.3.6 Viewing Archived Files in the Archive Player

To view **archived files**, open a new tab in Carbon and select **Archive Player**.

Browse for the **folder** the file was saved in.

Select the folder.

The recently saved file (and any viewable archived files saved in the same location) will be displayed in the Camera Viewing Panel of the Archive Player.

See [10. Archive Player](#) for more details on using the Archive Player.

5.9.4 Bookmarks

Bookmarking is a feature which *preserves a point in time* on a camera feed for future reference.

The bookmark is stored on the local database as private data for the specific user and will also be available on the mobile application for that user.

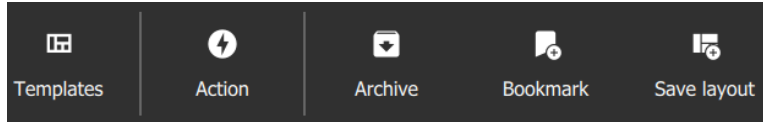
The bookmark can be *retrieved* from the bookmarks section (library), or alternatively, by right-clicking the display panel of that camera.

Note:

- When a bookmark is recalled, any cameras that were **live** will switch to **review** at the time the bookmark was created.
- Bookmarks will only contain resources to which the user has access.
- Bookmarking will **not** save:
 - a. PTZ position,
 - b. Current digital zoom parameters,
 - c. Live camera sequence running in a display panel.
- Bookmarks do not prevent data from being overwritten on the server. If the user requires bookmarked video to be retained, then the user should create an archive.

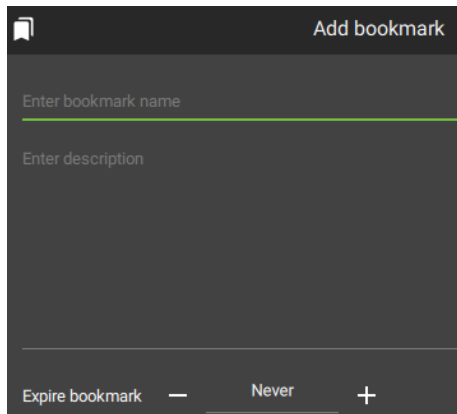
5.9.4.1 New Bookmark: Multi-Camera

To create a bookmark, lay out the cameras as desired. Using the *main bookmark icon*, at the top of the tab, allows the user to save the places of *all the current displays at once*. In other words, *the whole layout* can be bookmarked.



Click the **Bookmark icon** on the top menu bar.

A new dialogue box will open.



→ Give the bookmarks an accurate **name** and **description**.



Choose the expiry time for the bookmark by clicking the plus and minus icons to add or decrease the number of days.

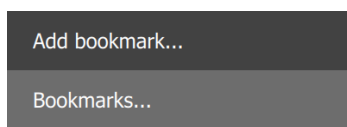
→ Click SAVE.

Note: Bookmarks will no longer be valid once past video recordings have been deleted.

5.9.4.2 New Bookmark: Single Camera

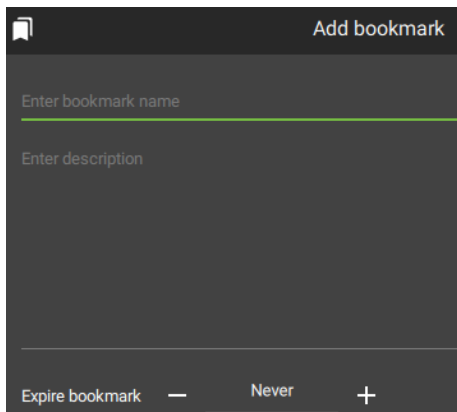
It is also possible to bookmark the position of a single display.

OPTION 1: Right-click



→ Right-click the single display panel and select **Add bookmark...** from the drop-down menu.

A new dialogue box will open.



→ Give the bookmark an accurate name and description.



Choose the expiry time for the bookmark by clicking the plus and minus icons to add or decrease the number of days.

→ Click SAVE.

Note: Bookmarks will no longer be valid once past video recordings have been deleted.

OPTION 2: Use the Bookmark Button on the Review Control

In review mode, a place can be saved at any point using the bookmark button.



→ Once the desired point in time has been located and is displaying on the screen, click the bookmark button on the review controls.

The Add bookmark dialogue box will appear.

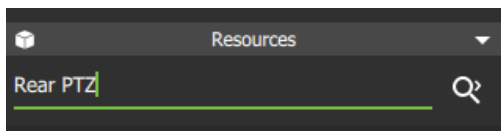
→ Give the bookmark a descriptive name and click SAVE.

5.9.4.3 View Bookmarks / Open Saved Bookmarks

Once bookmarks are created, they can be viewed and managed in the bookmarks section. There are two ways to view bookmarks.

OPTION 1: View Bookmark by Camera or Layout

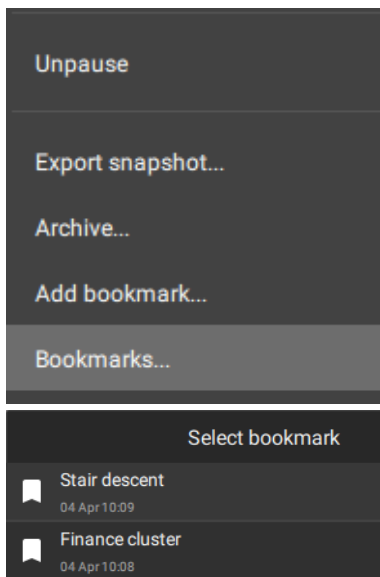
Open the Camera



→ **Add the camera** to the display by searching for the camera by name, or opening a saved Layout.

→ **Click the camera** in the resources list **to open** it in a display panel.

Open the Bookmark



→ Once the camera is displayed, **right-click** on the main display panel, OR



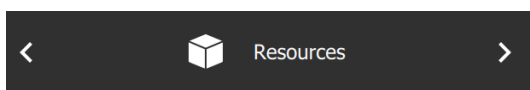
→ Click the blue **menu icon** to open the drop-down menu.

→ From the drop-down menu, select **Bookmarks**.

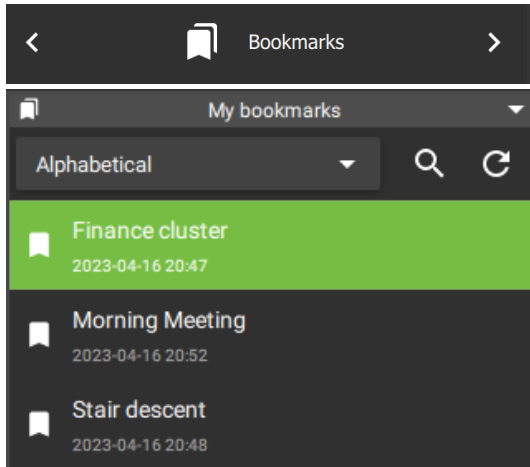
→ Select a bookmark and **double-click** to open.

OPTION 2: View All Bookmarks from Menu

To view all bookmarks from the bookmarks section, scroll through the folder tree menu at the top left-hand side of the main display.

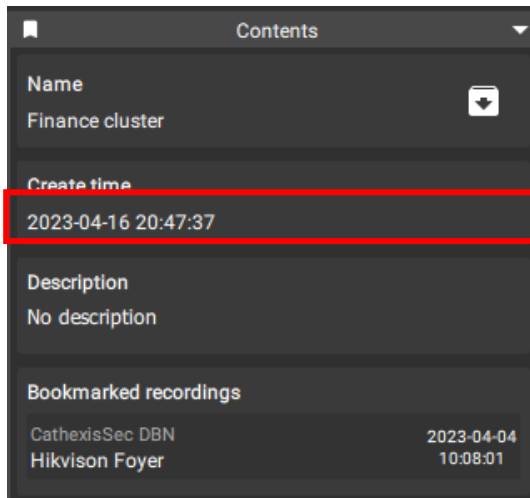


→ From Resources, **click the arrows** to scroll. Click the right arrow once.



Bookmarks should appear next.

→ **Double left-click a bookmark** to open.

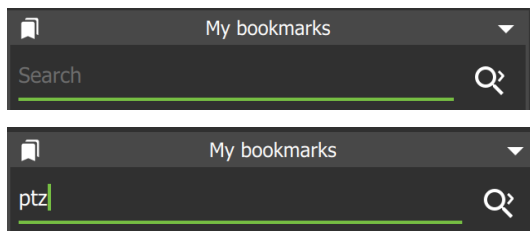


Selecting a bookmark will cause the **Contents bar** at the bottom of the screen to open. This will display details of the selected bookmarked recording.



Click the Archive icon to open the Archive builder and archive the selected bookmark. See [5.9.4.7 Archive Bookmark](#) for details on this.

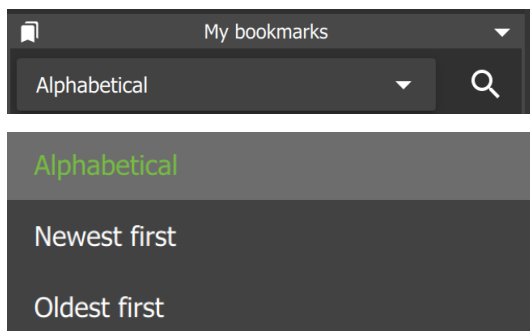
5.9.4.4 Search Results



→ To search bookmarks, click **the search icon**. This will activate the search field.

→ **Enter a search term**. This can be a camera name, or an excerpt from the description.

5.9.4.5 Sort Results

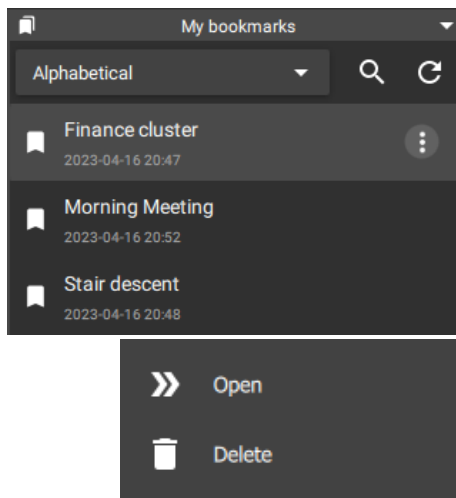


→ Click the **drop-down menu** to choose how to sort items.

→ Click an item to select.

Sort according to Newest first to see the most recent bookmark that was created, or Oldest first to see older entries.

5.9.4.6 Delete a Bookmark



→ To delete an item, **hover** over an item on the list until the menu icon appears.

→ **Click** to select.

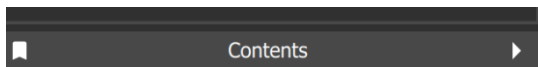
→ Click **Delete** to remove the bookmark.

5.9.4.7 Archive Bookmark

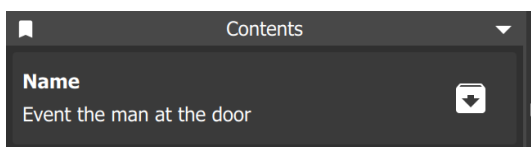
Archiving allows a selection of camera footage to be *saved and exported*.

Locate the Bookmark and Open in the Archive Builder

Use the Bookmarks section *on the sidebar* to locate and open the bookmark.

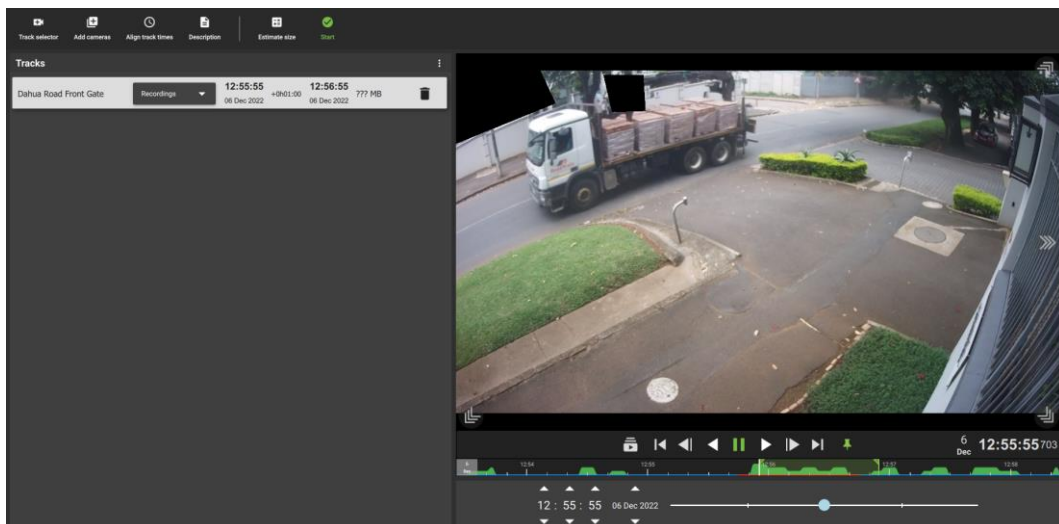


→ Once the bookmark has been selected, click the **Contents bar** at the bottom of the screen to open the contents section.



→ To archive the bookmark, **select the archive icon** next to the bookmark title.

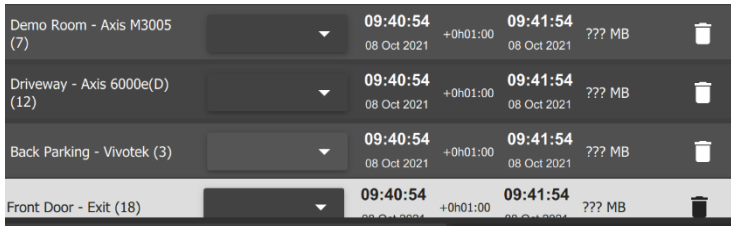
The **Archive Builder** will open in a new window.



One or more cameras will be shown in a list in the central panel.

Select Storage Option

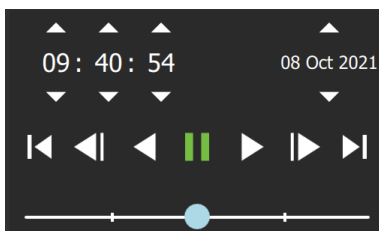
Illustrated below is a list for a bookmark from a Layout displaying four cameras.



→ From the drop-down menu, **select** the available **storage option**.

Playback Tool

Use the **playback speed tool** to change how footage is reviewed in the panel on the right.



Drag the slider to the **right**, (past the vertical lines) to **increase the speed** while playing **forward**.



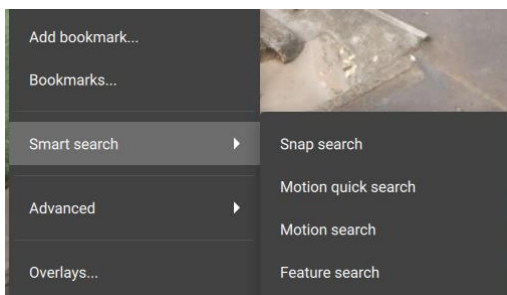
Maximum speed (4x) is indicated by four dots.

Drag the slider to the **left**, (past the vertical lines) to **increase the speed** while playing **backwards**.

Click **Export** to bring up the archive window. See section [5.9.3 Archiving](#) for more information about archiving.

5.9.5 Snap Search

Note: Snap Search works in *review mode*. Before selecting Snap Search, it is necessary to mark a time in the display panel.



→ To initiate the Snap search tool, **right-click the display panel**. A menu will open.

→ Hover over Smart search.

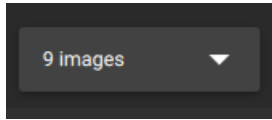
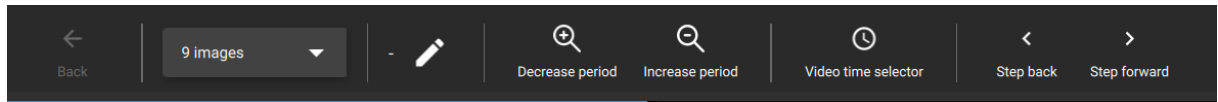
→ Click **Snap search**.

Snap Search will open in a new window.

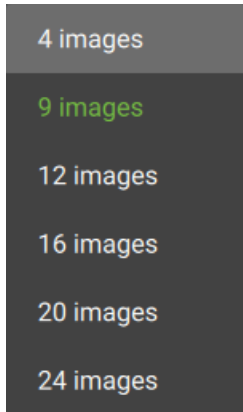
The search will be displayed in the central **Frame Area**. Stills spaced at equal time intervals will be displayed in the panels.



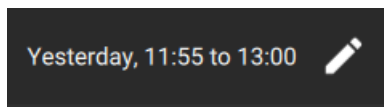
5.9.5.1 Snap Search Window: Basics



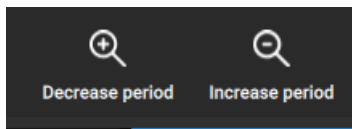
Frame display. Change the number of still images displayed in the frame area by selecting from the drop-down menu.



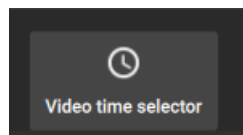
Click to select the number of frames or images to be viewed at one time.



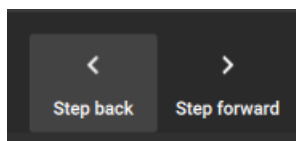
Click the edit icon to change the date and time range manually.



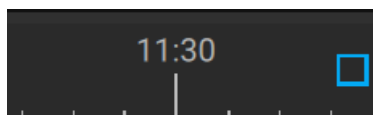
Use the zoom in/zoom out icons to narrow or widen the time range.



Click the video time selector to open a new window showing previews of the start and end time.



Use these buttons to step a “time page”.
E.g. If the current range shows 10:55-13:00, Step forward to show 13:00-15:05.



Timeline. Use the timeline to navigate between relevant frames.

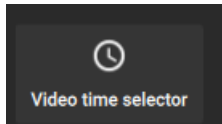
Note: If timeline or other features are not displaying, maximise window to full screen.

5.9.5.2 Changing Start and End Times

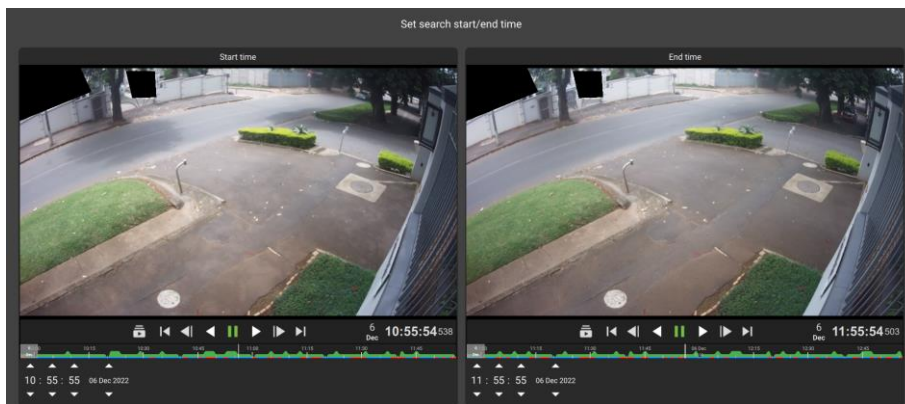
The frame that was initially right-clicked from the Monitoring tab, and from which Snap search was selected, will be the *end frame* and mark the end time in the Snap search window.

To change start and end times, there are two options.

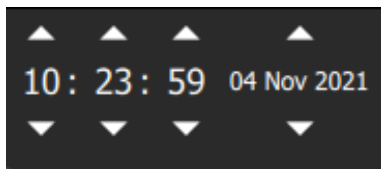
OPTION 1: Select the Video Time Selector



→ Left-click the video time selector icon.



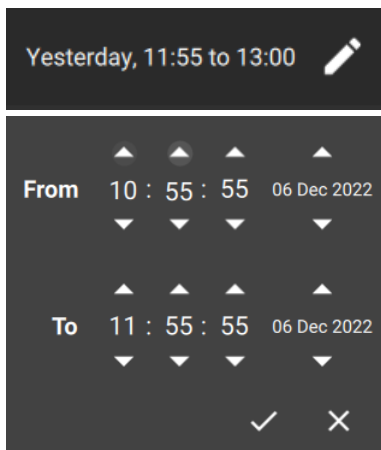
A new window will open, showing thumbnails of start and end frames.



→ Change the times of the start and end frames using the arrows.

→ Select APPLY.

OPTION 2: Select the Date and Time Bar



→ Left-click the day and time bar at the **top left** of the window, to open the date and time panel.

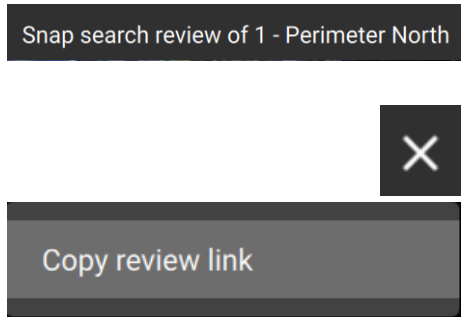
→ Left-click the up and down **arrows** above that date and time in the From and To fields to adjust the start and end times.

This will determine *the first and last frame* in the sequence on the display.

The images will appear in equally spaced intervals.

5.9.5.3 Controls Within the Frame Area

Controls are available within the frame area. These are:



Double-Click a Frame: Double-click a frame/thumbnail to start playback in a new window that opens review tools. The Snap search window will remain open.

Click this icon to close the new window.

Right-Click a Frame: Right-click a frame for the option to copy the review link.

5.9.5.4 Search Between Frames

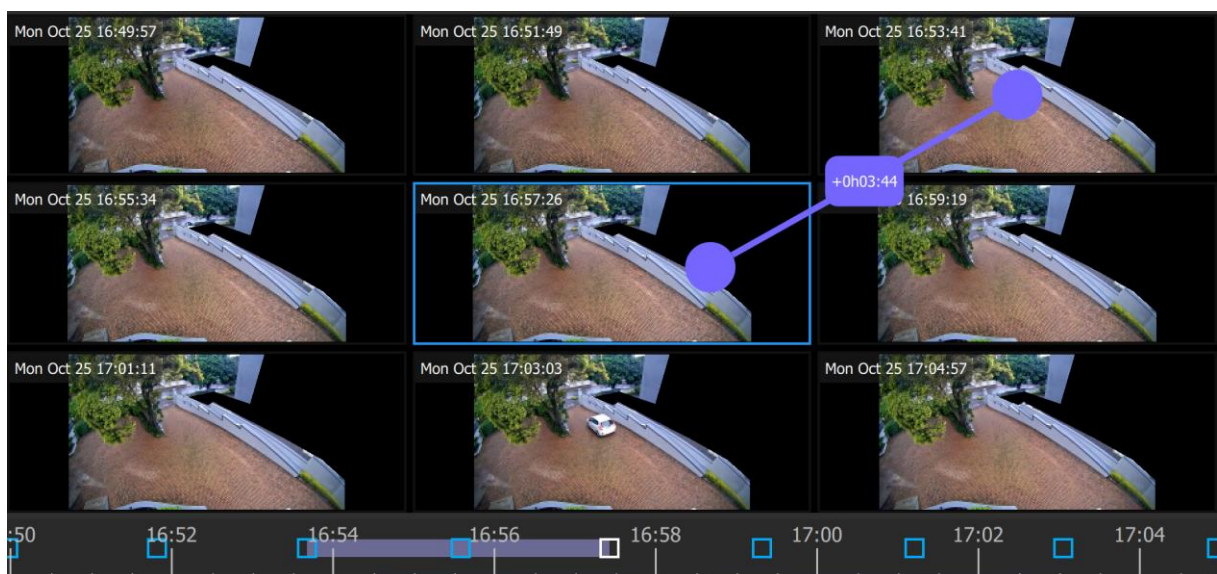
To limit the search range between frames:

1. **Left-click** an image, and hold down.
2. **Drag** to another frame.

A purple line will represent this, and the time between the two frames will be displayed.

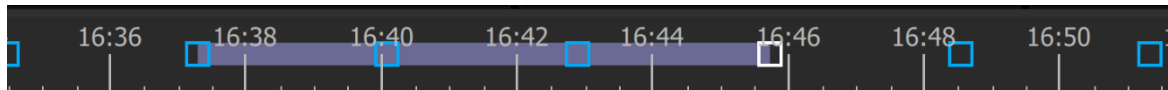
- A negative / positive sign indicates whether the time difference is ahead or behind
- + the selected frame.

3. **Repeat** the process until the desired frame has been located. Search between any frames, in any direction.

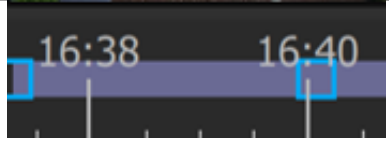




The search time frame selected by the mouse will reflect in the timeline at the bottom of the screen.

5.9.5.5 Snap Search Window Timeline

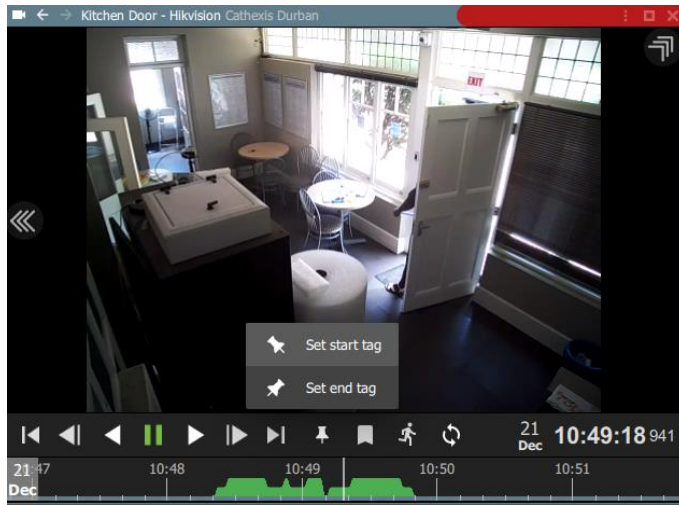


The “Snap search” timeline functions similarly to the main Carbon interface timeline. Click anywhere on the timeline to go to that time point.

FEATURE	DESCRIPTION
	<p>A grey strip on the timeline indicates the time frame of the selected area when searching between frames.</p>
	<p>The white square corresponds to the frame where the mouse is active.</p> <p>When the mouse hovers over the frame at 16:46, the square at 16:46 changes to white and the frame border changes to blue.</p>
	<p>The blue squares on the timeline represent the frames on the display.</p> <p>Click on a blue square to move all search results in the direction of the selected time point.</p>

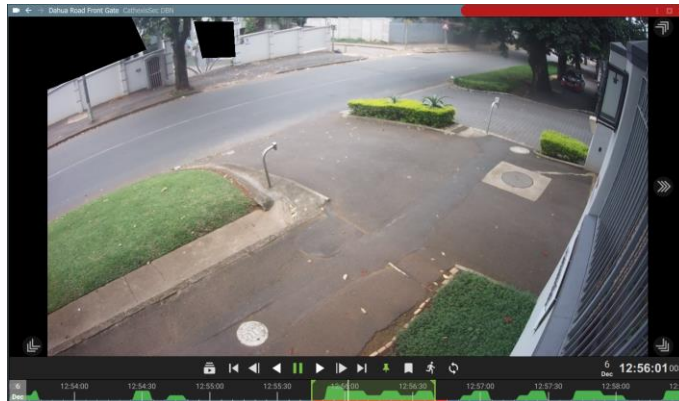
5.9.5.6 Using Snap Search to Find an Event in a Tagged Time Period

The Snap search can begin with a predetermined time period by using tags on the footage in the main display.

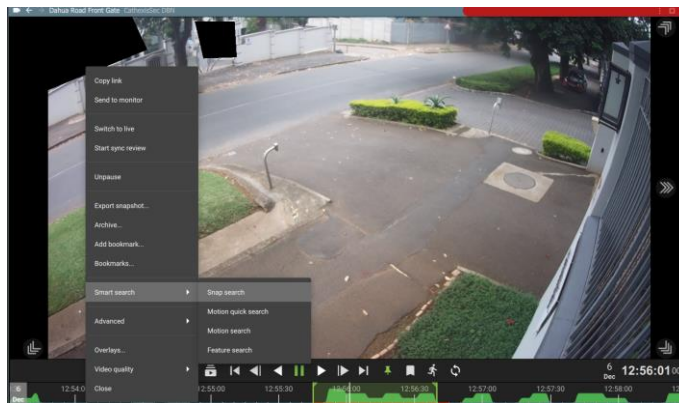


From the main display, **set tags** to demarcate the segment/time period to send to the Snap search window.

For more about tags, see [5.9.2.7 Using Tags](#).

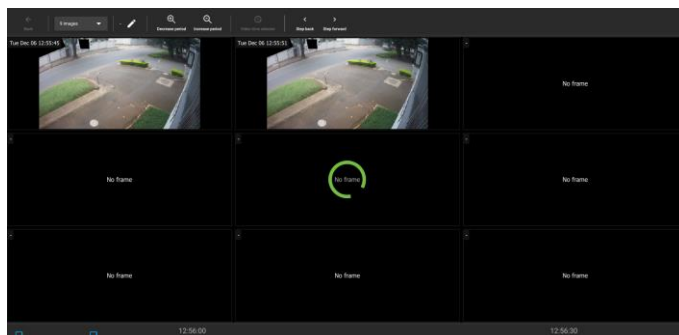


The tags will display as vertical green lines.



→ **Right-click** the display.

From the drop-down menu, hover over Smart search, and then **select Snap search**.



Snap Search will open in a new tab.

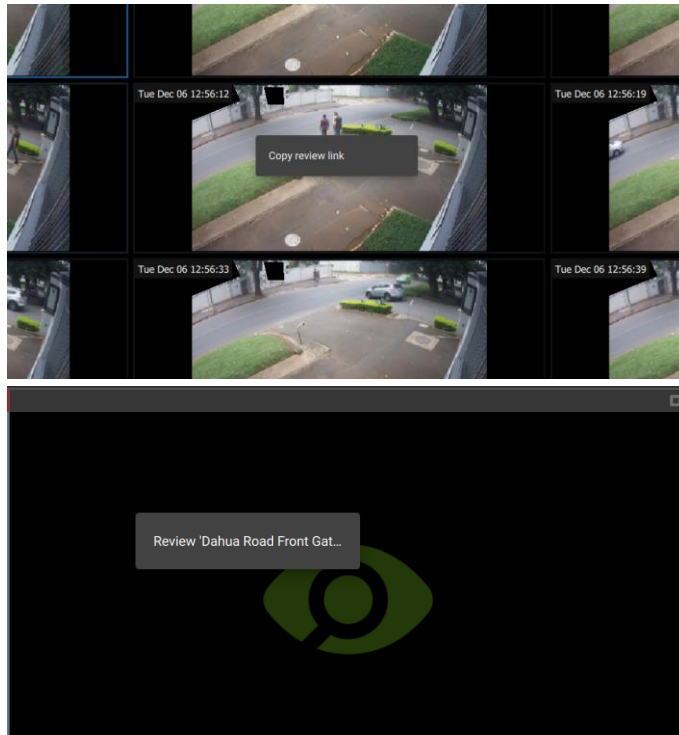
The tags will define the beginning and end of the search period.

The search results will be evenly distributed in terms of time.

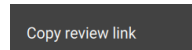
See [Snap search basics \(above\)](#) for more information about adjusting view/results.

5.9.5.7 Importing a Review Time from Snap Search into Monitoring Tab

Once a time/incident has been identified in Snap search, it is possible to copy and paste into the Monitoring tab.



→ First, from the Snap search window, **right-click** on the display in which the time/incident has been identified.



→ Click **Copy review link** to select.

→ Return to the Monitoring tab.

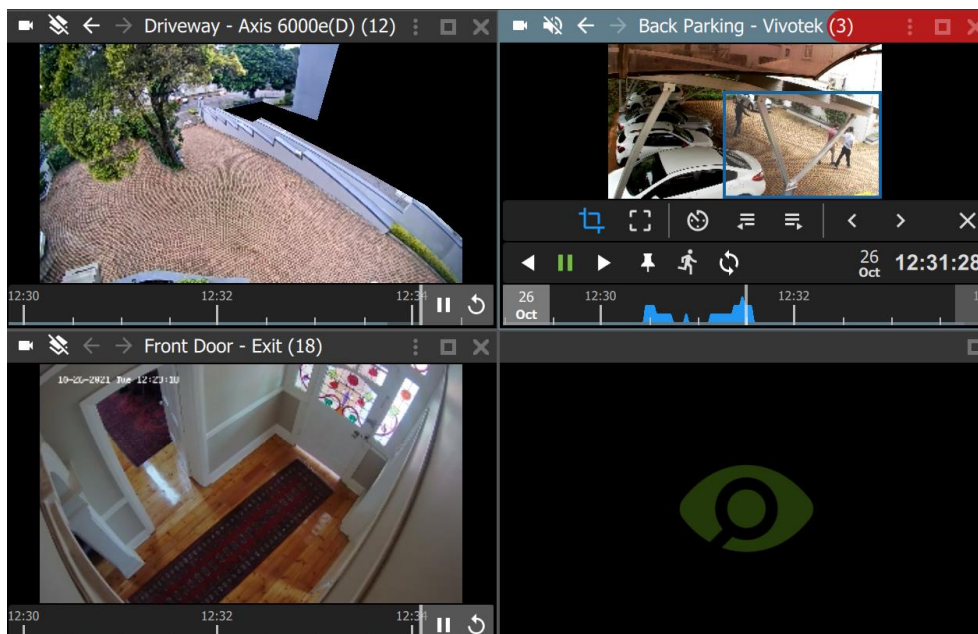
→ **Right-click** an empty display panel in the Monitoring tab.

→ Then click “**Review** [camera name]” to select.

5.9.6 Motion Quick Search

The **Motion quick search** function allows the user to search from the main monitor display for recent motion in a selected area of the camera image.

This is shown in the image below, where Motion quick search is active in the top right panel, and has been used to identify people moving within the mask area. The other two display panels on the viewscreen are in live mode.



5.9.6.1 Open Motion Quick Search

There are two ways to locate the Motion quick search feature.

OPTION 1: OPTIONS MENU



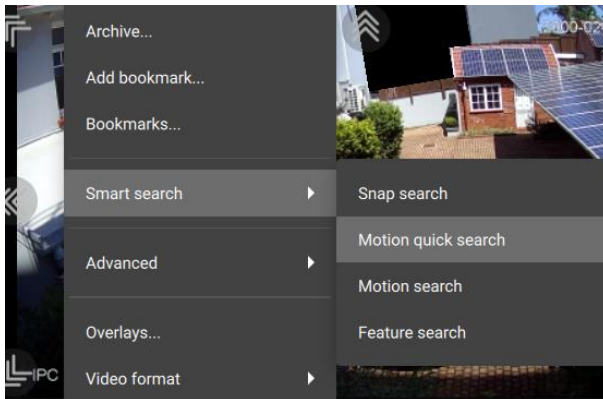
→ From the camera panel, **select the inset options menu**. A drop-down menu will appear.

→ Select **Motion quick search**.



OPTION 2: RIGHT-CLICK

Alternatively, locate the Motion quick search feature by right-clicking within the display panel.



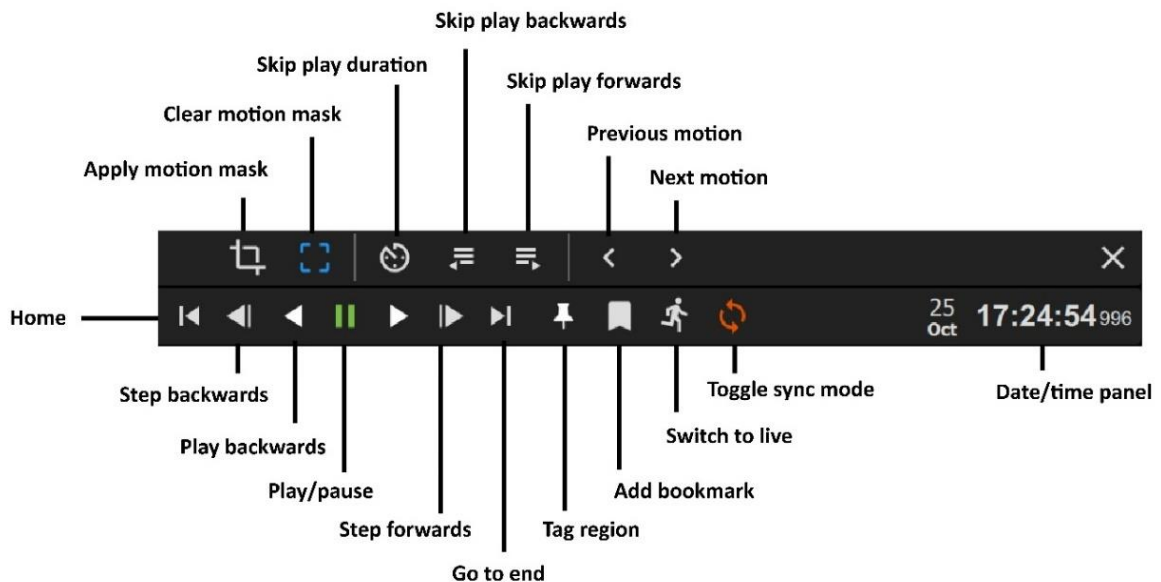
→ From the drop-down menu, hover over **Smart search**.

→ Select **Motion quick search**.

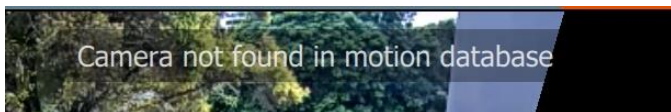
The Motion quick search controls will appear and the feed will switch to review if the view was live.

5.9.6.2 Motion Quick Search Controls

In addition to standard review controls, the Motion quick search controls provide quick access to the mask tool, and a tool to skip forwards or backwards to the next sequence in which motion appears.




Note: Motion quick search is not available on all cameras. Although the *motion quick search controls will open* in the camera review panel for all cameras, when searching for next or previous motion, an error message will appear as shown below when this feature is not available.



5.9.6.3 Searching in Motion Quick Search

The **Motion quick search** functions are similar to the **Motion search** functions, but are accessible from the main monitor display panels and are simplified. Search for motion using the steps below.



 → Select the **mask tool**.

→ **Draw a frame** around the area to be searched.

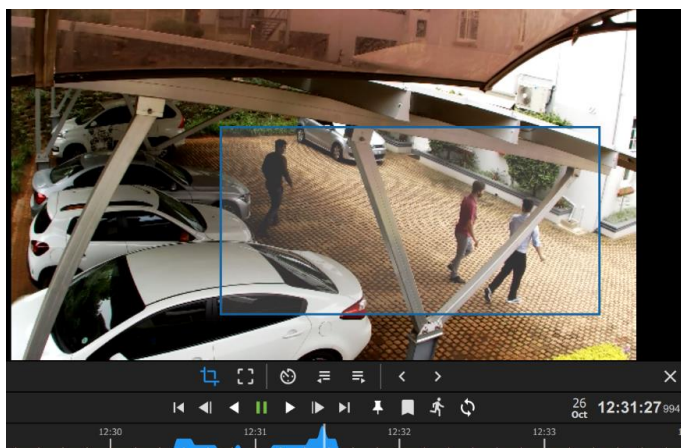
This is called the motion mask.

To search for time points at which motion is detected in the frame:

1. Click left or right to **scroll** backwards or forwards on the timeline.
2. Click a blue/**motion area** on the timeline to view motion with the mask.



Motion is indicated with blue. Greater motion is depicted as a higher crest.



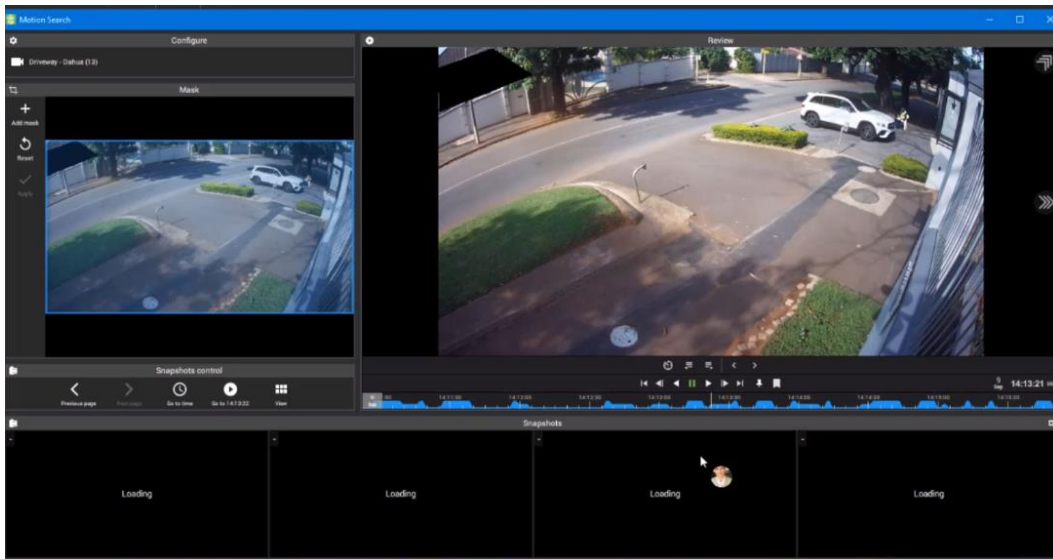
The example image alongside corresponds with the highest crest on the motion graph beneath.

Note:

- Camera must be in *review mode* for Motion Quick Search to work.
- Motion quick search uses metadata from the motion analytics database. To perform a motion quick search, cameras must have Motion Search analytics configured on the CathexisVision client.
- Configuration can be done from CathexisVision: **Setup Tab / Configure Servers / Video Analytics / Motion Database.**
- Motion data is gathered in real time. This means that there will not be any data available for periods when Motion Search was not configured.

5.9.7 Motion Search

In review mode, the **Motion Search** function allows the selection of certain areas of the camera image to search for recent motion in one or more selected areas.



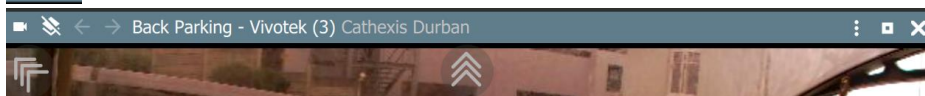
5.9.7.1 Open Motion Search

There are two ways to locate the Motion search feature.

OPTION 1: MENU ICON

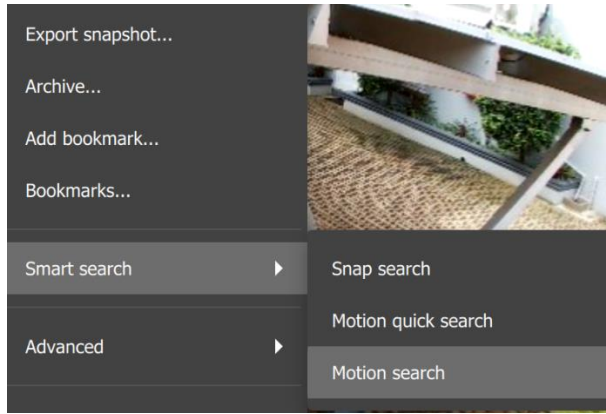


From the camera panel, select the inset menu icon in blue.



OPTION 2: RIGHT-CLICK

Alternatively, locate the Motion search feature by right-clicking within the display panel.



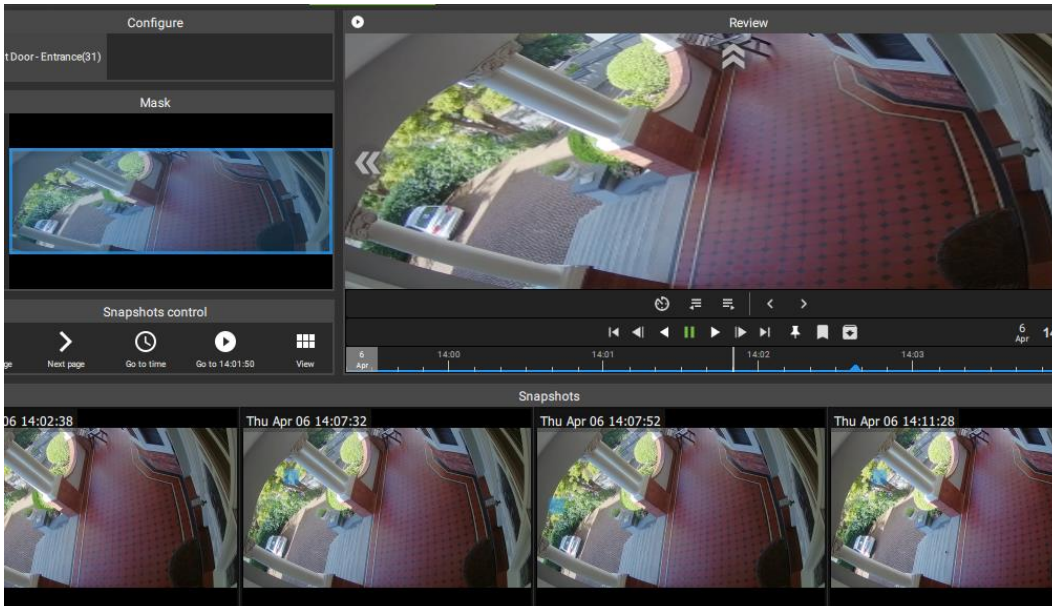
→ From the drop-down menu, hover over **Smart search**.




→ Select **Motion search**.

A new window will open displaying the Motion search tools.

5.9.7.2 Motion Search Window

The motion search window displays tools in five separate panels: **Configure**, **Mask**, **Snapshots control**, **Snapshots**, and **Review**, as shown below. The table beneath the image describes the functions in each of these panels.

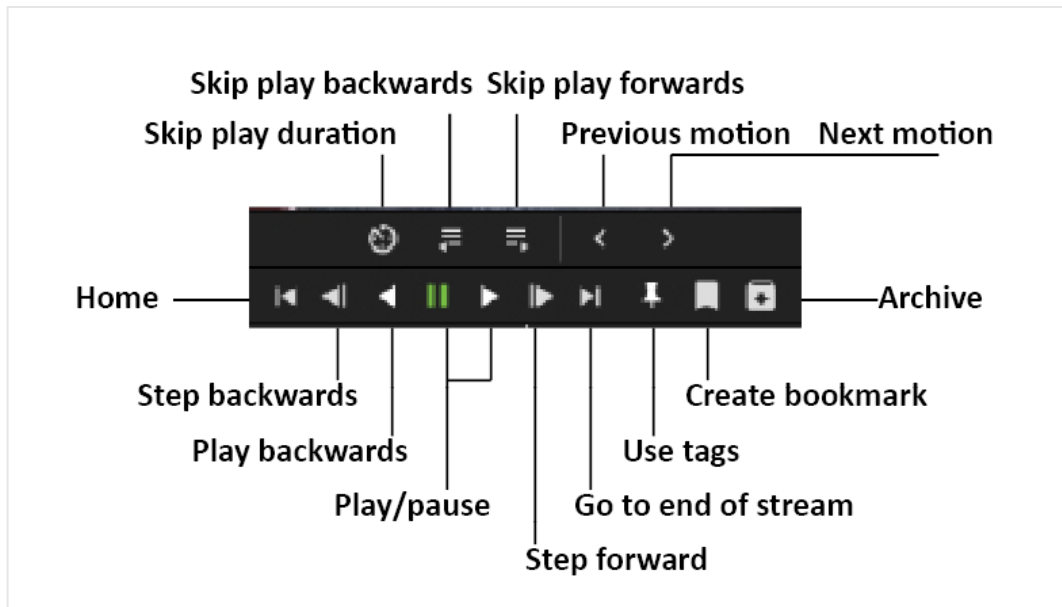


PANEL	FUNCTION	INSTRUCTIONS
Configure	The user can change which camera is being viewed.	Click the camera name. Search for a camera in the folder tree.  Click the tick icon to apply.
Masks	The user can create a search frame within the display.	 Select Add mask. Draw a shape/s over the search area. Click apply.
Snapshots Control	Use the controls to search snapshots.	Use the Snapshots control buttons to search previous and next snapshot, or search for date/time.  Select the View icon to change the layout and number of snapshots displayed in the panel.

Snapshots	Search results appear as thumbnails in this panel.	Double-click a snapshot to view in the main panel.
Review	The user can review or search footage manually in the large display.	Use the review controls or the timeline to search footage. Use tags, bookmarking and archive features from this panel.

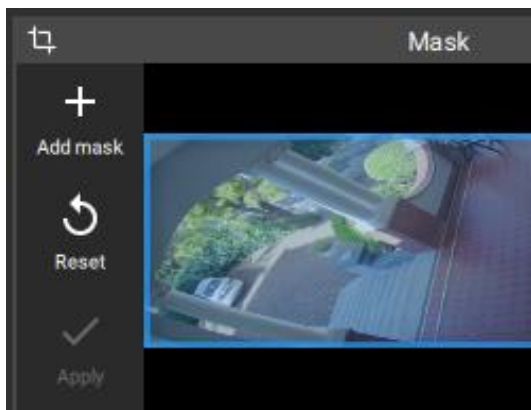
5.9.7.3 Motion Search Review Controls

The main display panel allows the user to see a larger image, and shows the motion search timeline underneath the image. Use the timeline or the controls from the main panel to search or play.



5.9.7.4 Searching in Motion Search

The motion search **Mask panel** allows the user to select more than one **activity zone** within the frame in which to search for motion. Add masks and then apply, as illustrated below.



Use masks to demarcate the search area, or, activity zone.



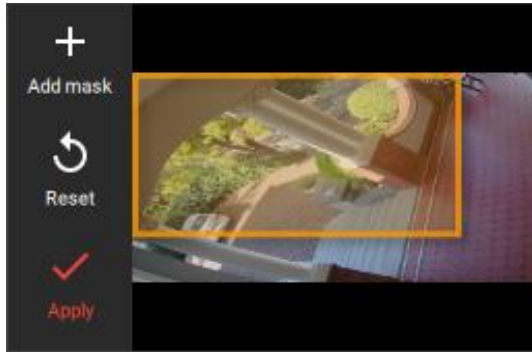
→ Click the plus icon in the top left corner to add a mask.



→ Use arrows on the borders of the frame to resize the mask.



→ Click and drag to move the mask.

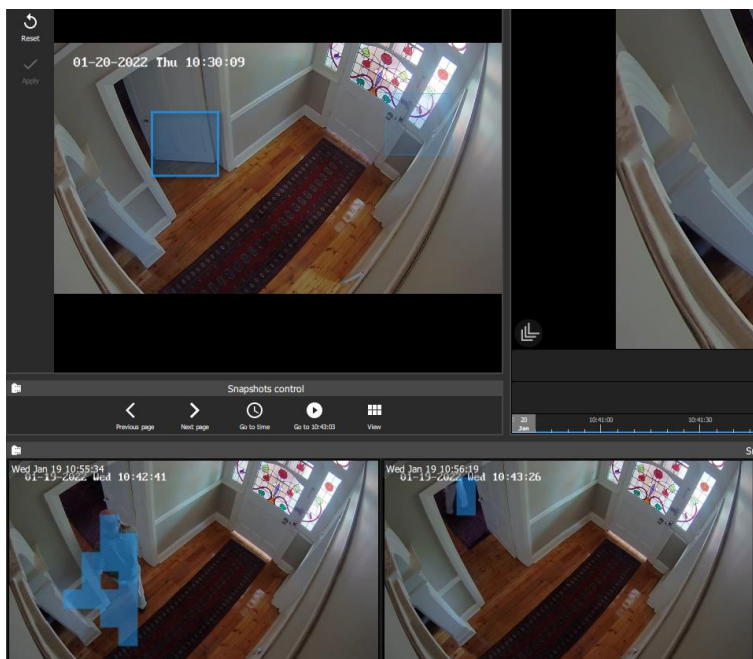


→ Click **Apply**.



Additional masks can be created in the frame.

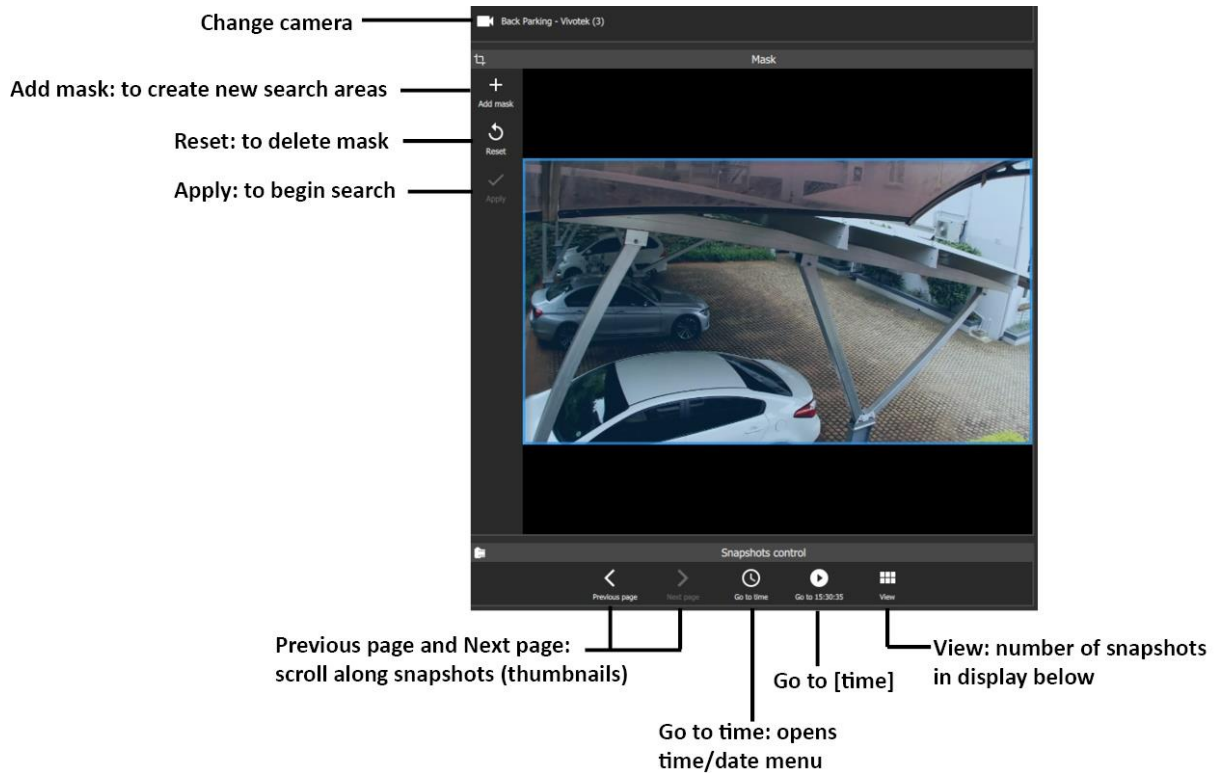
After applying the mask/s, the horizontal strip at the bottom of the screen will turn up snapshot images (thumbnails) where motion appears within the mask area. See the example below.



Note:

- Camera must be in review mode.
- Motion Search uses metadata from the Motion Search analytics database. To perform a motion search, cameras must have Motion Search analytics configured on the **CathexisVision client**.
- Configuration can be done from CathexisVision: **Setup Tab / Configure Servers / Video Analytics / Motion Database**.
- Motion data is gathered in real time. This means that there will not be any data available for periods when Motion Search was not configured.

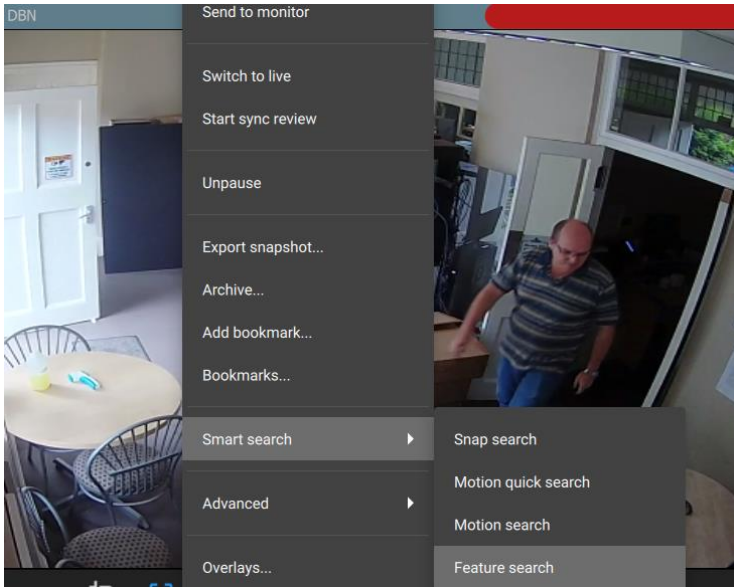
5.9.7.5 Summary of Mask Tools and Snapshots Control Tools



5.9.8 Feature Search

The Feature search is a Smart search tool with its own dedicated tab.

- Use the Monitoring tab to send an image to the Feature search tool.
- Feature search will match the image with similar results.



- **Find the frame** using the review tools in the Monitoring tab.
- **Right-click** on the panel to open the drop-down menu.
- Select **Feature search** from the Smart search tools.

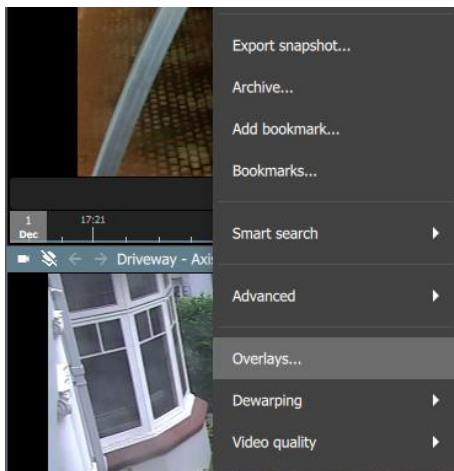
The image will be used as the reference/search image in the Feature search tab.

See [9. Feature Search](#) for information about how to use the Feature search tab.

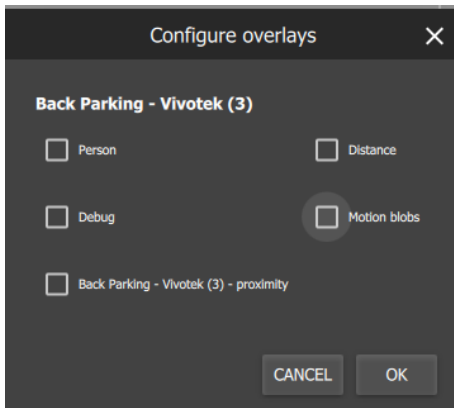
5.9.9 Integration Overlays

Overlay options vary according to camera and camera setup. Right-click a display panel to see what options are available for the camera.

Analytics overlays are only available in **live and review mode**. Available overlays vary between cameras and integrations.



- To control overlays, right-click a display.
- Select **Overlays** from the drop-down menu.

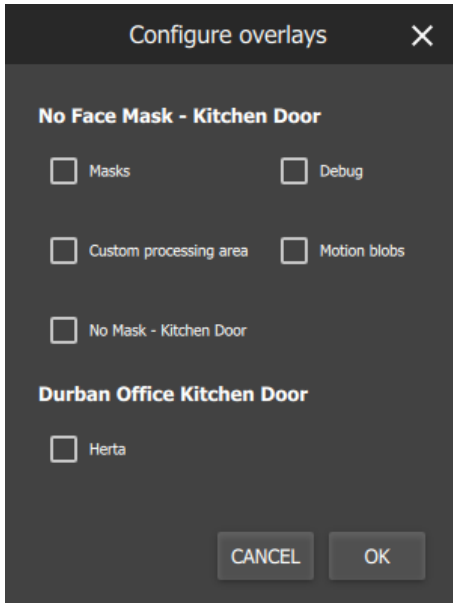


A new dialogue box will appear.

Overlay options will vary according to camera and integration.

Illustrated alongside, the Vivotek camera allows for person, distance, proximity, and motion detection analytics.

- **Check boxes** to select options and click **OK**.



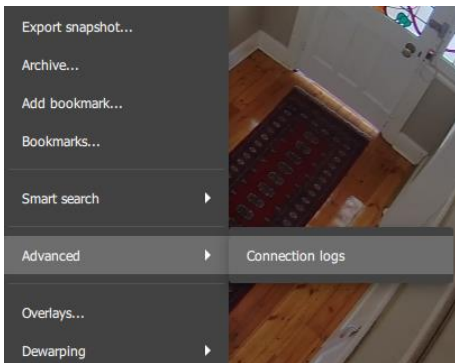
The image alongside shows the overlay options for a Herta camera. The analytics include face-mask detection.



The image alongside shows the display with the overlays enabled on the Vivotek camera.

5.9.10 Advanced: Connection Logs

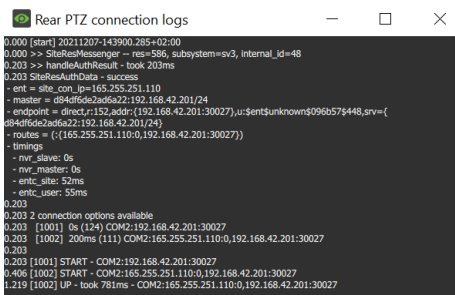
An advanced tool is available to view connection logs of footage in live mode.



→ **Right-click** the display in live mode.

→ **Hover** over Advanced.

→ Select **Connection logs**.

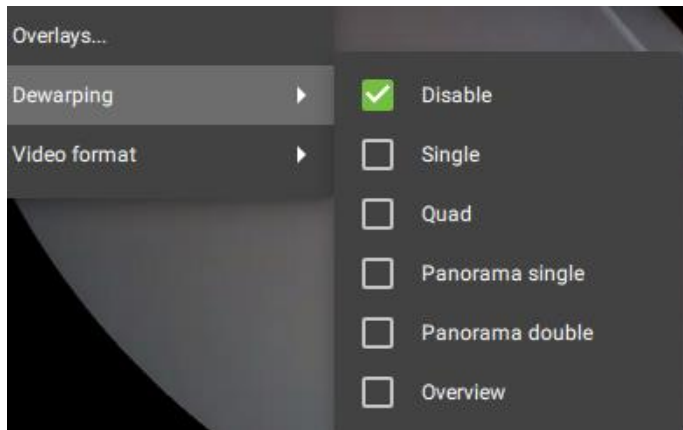


The connection logs will open in a new dialogue box.

✕ Use the **cancel icon** to exit.

5.9.11 Dewarping

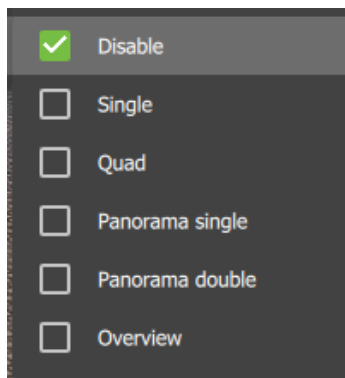
Use the dewarping tool to transform a fisheye camera into a flat view.



→ **Right-click** a display. The drop-down menu will appear.

→ **Hover** over Dewarping.

Another menu will appear.



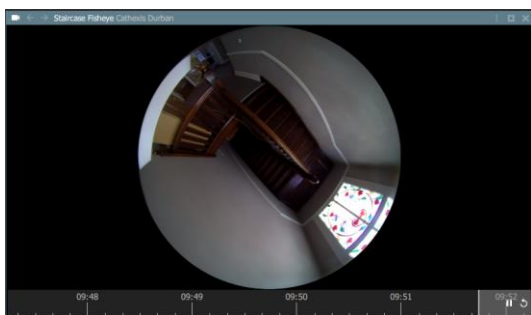
Check the boxes to adjust the settings on the cameras.

Choose from:

- Disable
- Single (1/4)
- Quad (breaks the view into 4 flat sections)
- Panorama single (top left and right quarters)
- Panorama double
- Overview (drag the blue section around to change the fisheye view).

5.9.11.1 Disable Dewarping

Disable on a Fisheye Camera



On a **fisheye** camera, **disable** will **remove dewarping**, and show the full fisheye view.

Disable on a Regular Camera



Selecting disable on a regular camera will also send the camera view to the monitor **without making changes** to the feed.

5.9.11.2 Dewarping Options

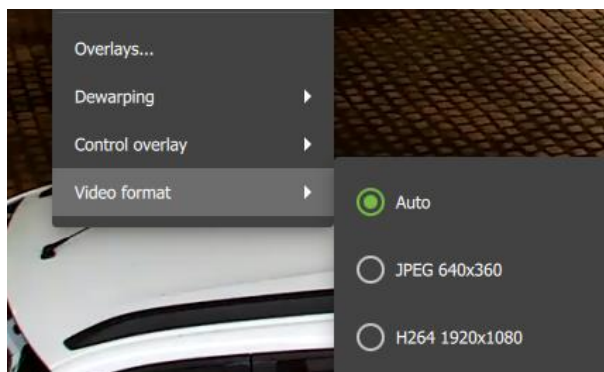


The dewarping options break the fisheye view into flat images.

In the example on the left, the **quad** option breaks the fisheye feed into four flat sections. Any of these four sections can be clicked and controlled using the mouse.

5.9.12 Video Settings

5.9.12.1 Change Video Format in Live Mode



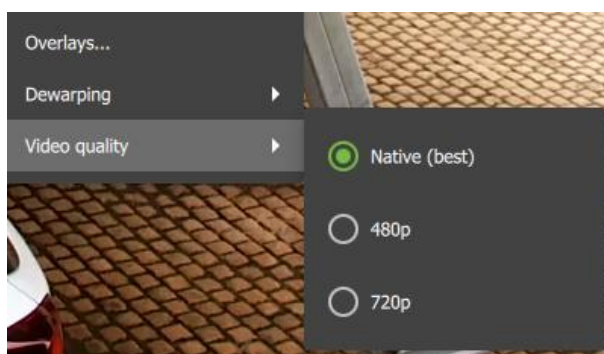
→ **Right-click** to open the drop-down menu.

→ Select **Video format**.

The video format default is set to Auto.

→ Choose from available options to change the video format, and click to select.

5.9.12.2 Change Video Quality in Review Mode



→ **Right-click** to open the drop-down menu.

→ Select **Video quality**.

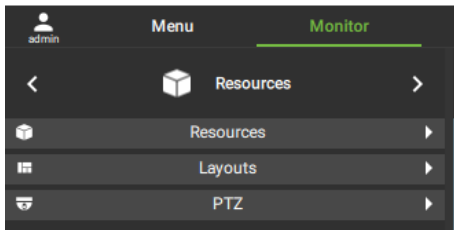
The video quality default is set to best.

→ Choose from available options to change the video quality, and click to select.

5.9.13 PTZ Menu

When a display panel with a PTZ camera is selected, in live mode, an additional menu bar will appear on the left side underneath the Layouts menu. This is found under the Resources main menu bar.

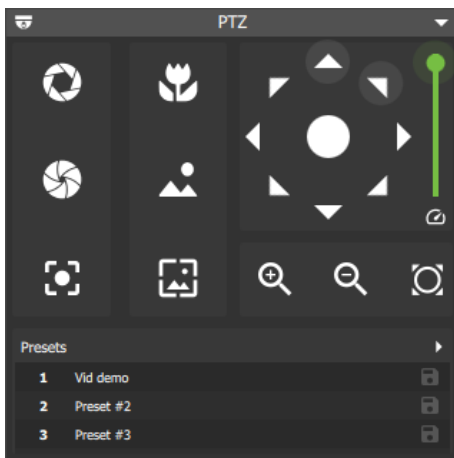
The PTZ menu enables the user to control PTZ movement in real-time as well as save PTZ presets for the camera. For information about how to use the PTZ overlay in the main display, see [5.9.1.9 PTZ Control](#).



Once the display is clicked, the PTZ menu bar usually appears at the bottom of the screen, on the left-hand side.

→ **Click on the PTZ bar** to open up the menu.

The image alongside illustrates the positions of the menu bars once collapsed.

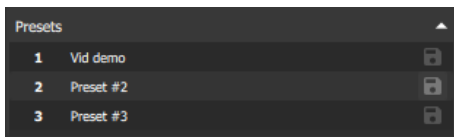


→ Open the PTZ menu and use the navigation and zoom functions to control the camera's movement manually.

Select from features such as:

- Open iris
- Close iris
- Focus near
- Focus far
- Auto iris
- Auto focus

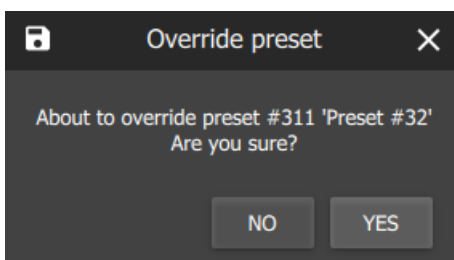
Features will depend on the capabilities of the individual PTZ camera.



→ Choose an unused slot or row.

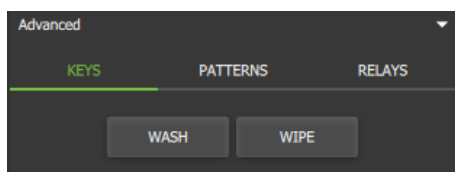


→ Click the save icon to save the preset.

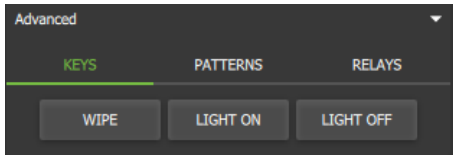


→ Select YES to save the new preset.

PTZ Menu: Advanced

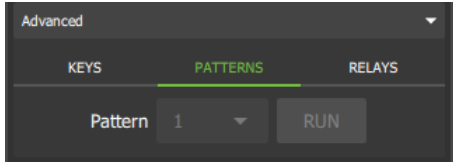


→ Click the **Advanced menu bar** at the bottom to view Advanced options. These are **Keys**, **Patterns**, and **Relays**.



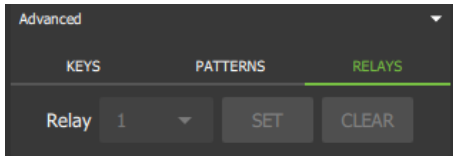
Keys will vary depending on the specifications of the PTZ camera. These buttons or “keys” allow the user to access PTZ functions.

→ **Click a “key”** e.g WIPE to **activate** an on-camera function.



A pattern is a pre-recorded path for the camera to follow. The patterns are numbered.

→ **Select a pattern** using the **drop-down menu** and click **RUN**.



Relays are switches on the camera.

→ **Select a relay** using the **drop-down menu** and click **SET**.

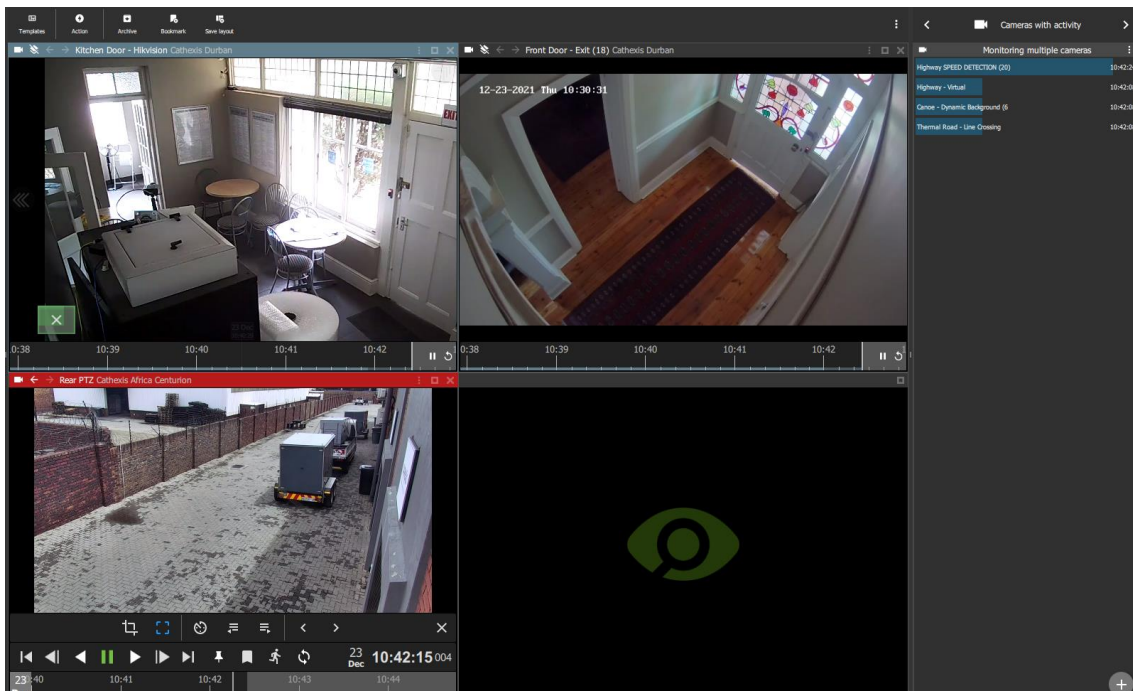
Note: Patterns and relays must first be configured before features can be used. These will need to be set up in CathexisVision.

5.9.14 Monitoring Using the Side Panel

The side panel displays camera with activity (triggered cameras) as *text items in a list*, not as video. This feature remains active even while the central display panels are being used for other cameras.

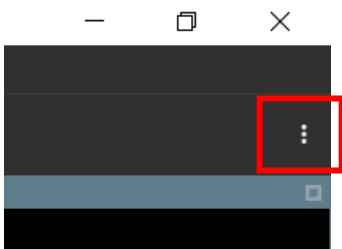
Section [5.7 Layout for Black Screen Monitoring](#) describes the setup for black screen monitoring, which only displays *video footage* of triggered cameras.

In the example below, the list of cameras with activity that are displayed on the right side panel are different to the cameras displayed in the central panels.

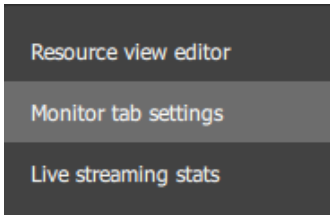


To use the side panel for monitoring, it is recommended first to enable the right side panel from the menu settings.

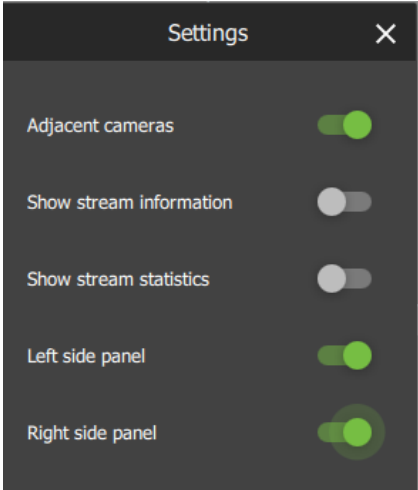
5.9.14.1 Enable Right Side Panel



→ Click the main **menu icon**.

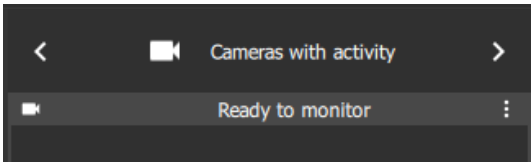


→ Select **Monitor tab settings**.




→ In the dialogue box that opens, toggle the bottom switch to enable **Right side panel**.

5.9.13.2 Monitoring Using Groups or Manually Adding Cameras

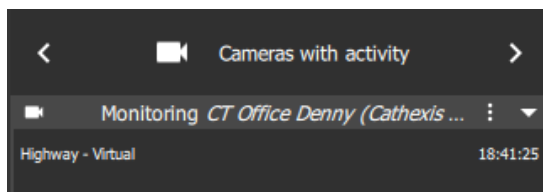
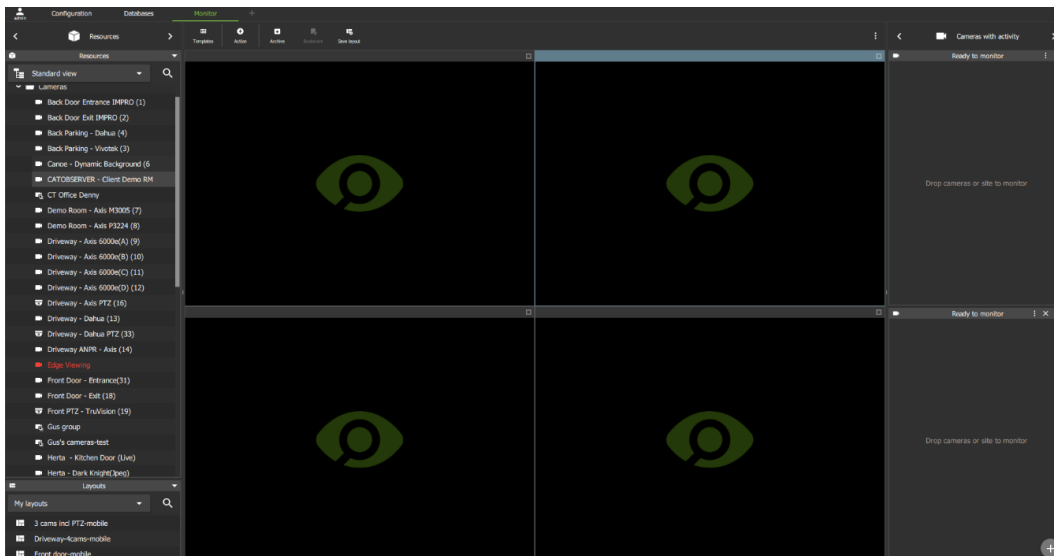


→ Once the side panel has been enabled, use the arrows on the menu bar to **scroll** through menu items to find **Cameras with activity**.



→ Select the plus icon in the bottom right corner to add additional monitoring panels.

In example below, the **left side panel** displays the **Resources menu** and the **right side panel** displays the **Cameras with activity** menu:

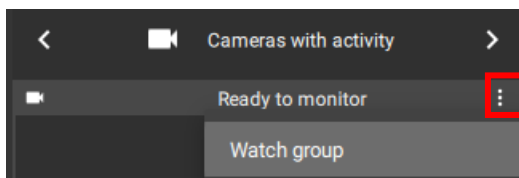


→ Click on a **camera group** in the **Resources** section, on the left, to **select**.

→ Then **drag and drop** the camera group into the **Cameras with activity** panel on the right.

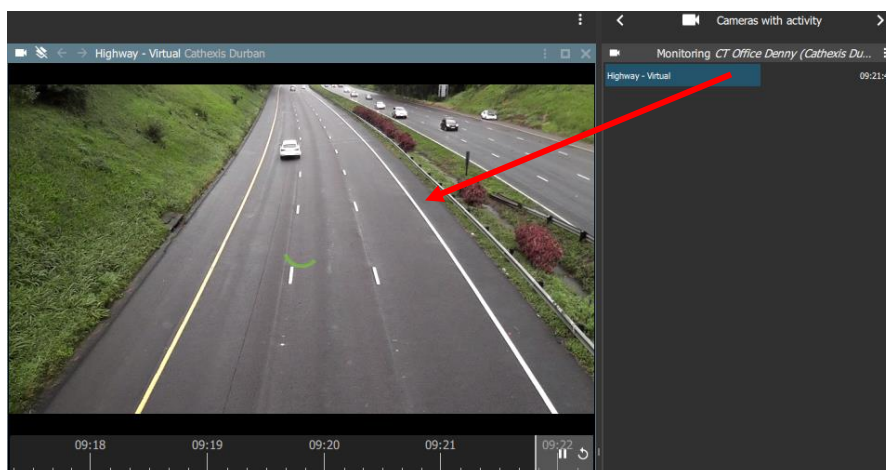
→ Alternatively, add cameras **manually** using **Shift+click** or **Ctrl+click** and drag them across.

The menu text will change from **Ready to monitor** to **Monitoring [group name]**, and cameras will begin to appear underneath.



→ A **group** can also be added by clicking the menu icon on the **Ready to Monitor** bar and selecting **Watch group**.

5.8.14.3 View a Monitored Camera



→ **Click a camera** in the list.

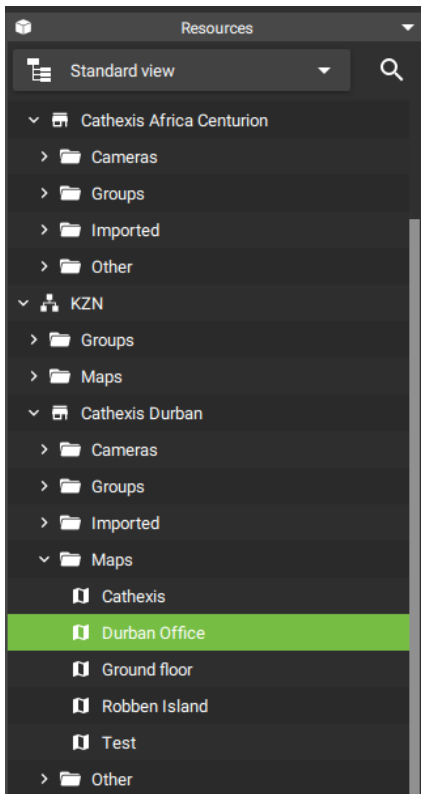
→ **Drag and drop** into a video display panel to see footage.

5.10 Using Maps from the Monitoring Tab

Maps can be viewed and used in the Monitoring tab as well as the Map tab. The sections below describe how to use maps in the Monitoring tab, including actions that can be performed using the map objects.

5.10.1 Place Map in Template

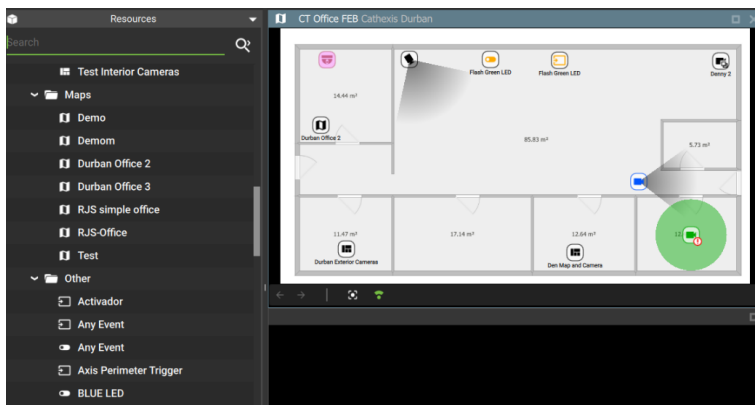
To use the map from the Monitoring tab, the map must first be added to a template or open display panel.



→ **Locate the map** in a folder, using the folder tree on the left. Alternatively, use the search bar to search for the map by name.

→ **Click a map** on the list to select.

Note: For a MultiSite or Enterprise connection, all available maps from all sites will be displayed in the folder tree.



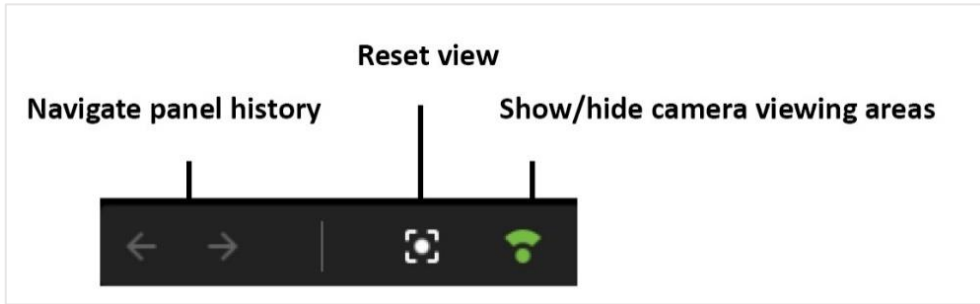
→ **Drag and drop** the map onto a display panel.



→ Click **save layout** to use the arrangement in the future.

Note: It is recommended to choose a template with at least one other display panel.

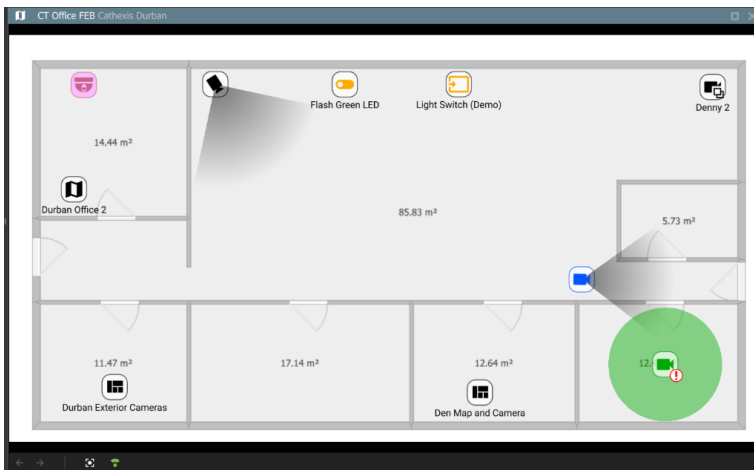
5.10.2 Monitoring Tab Map Tools



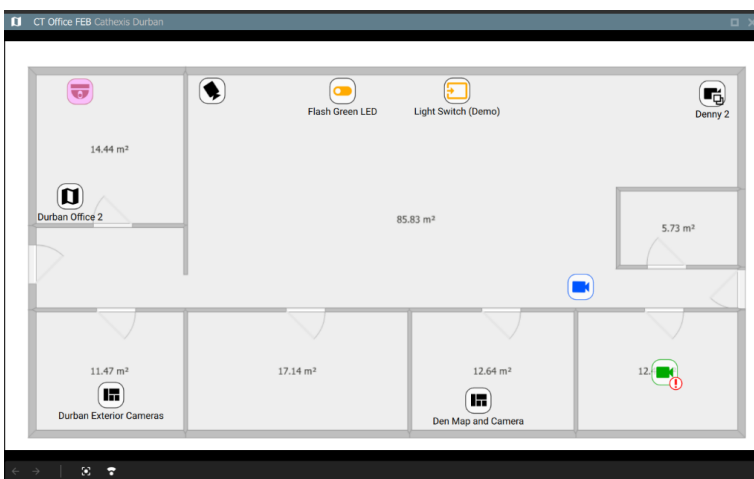
Toggle the viewing areas icon to show or hide the field that indicates the range of the camera view.



Click the map icon to bring up a list of available maps.



Pictured left is a map where **camera viewing areas are shown**.

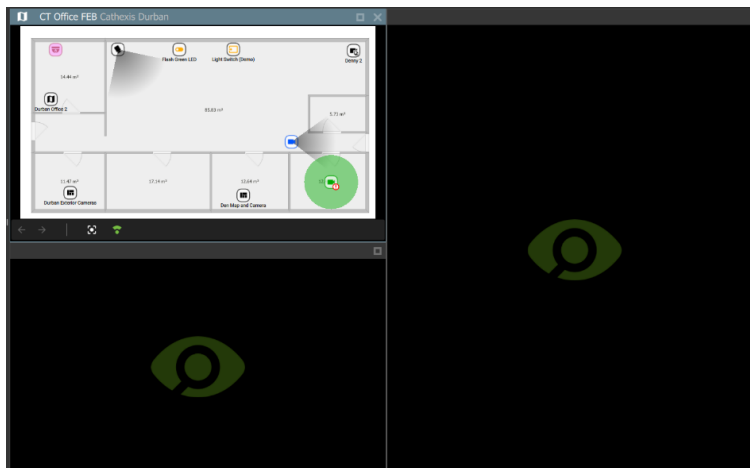


Pictured left is the same map where **camera viewing areas are hidden**.

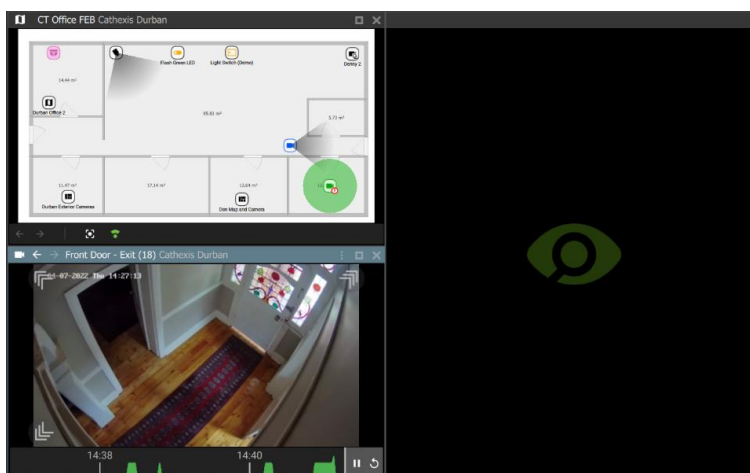
5.10.3 Viewing the Map's Cameras

The camera icons on the maps represent cameras that can be viewed in other display panels in the Monitoring tab.

5.10.3.1 Viewing Individual Cameras



→ Choose a **template** with at least one **available display panel** in order to see camera views.



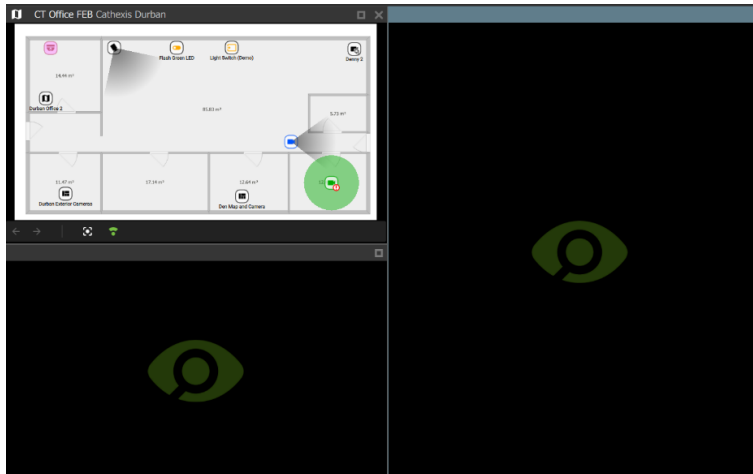
To see the video footage of the camera, **select a camera icon** on a map.


→ Then, **drag and drop** the icon into another panel.

The panel will change to display the camera's video footage.

5.10.3.2 Viewing Camera Groups

If a *camera group* has been added to the map, video footage of the cameras in the group can be displayed.



 **Left-click** the camera group icon on a map.

Drag and drop the icon into another display panel.



The template will change, and the saved camera group will **fill the display panels**. The display panels will show the video footage.

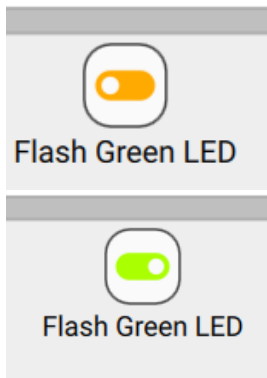
The *map* will *no longer* be displayed.

5.10.4 Viewing and Controlling Outputs

Note: Inputs and outputs must be configured in CathexisVision in order for them to be available in Carbon.

5.10.4.1 View State

To view the *state* of an Output, it is necessary to know the settings for the icon that were created using the map editor tool ([7.1.3 Edit Appearance of Icons](#)).

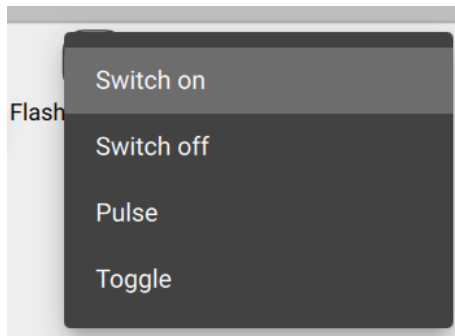


Colours can be used to represent the state:

- Unknown
- On
- Off.

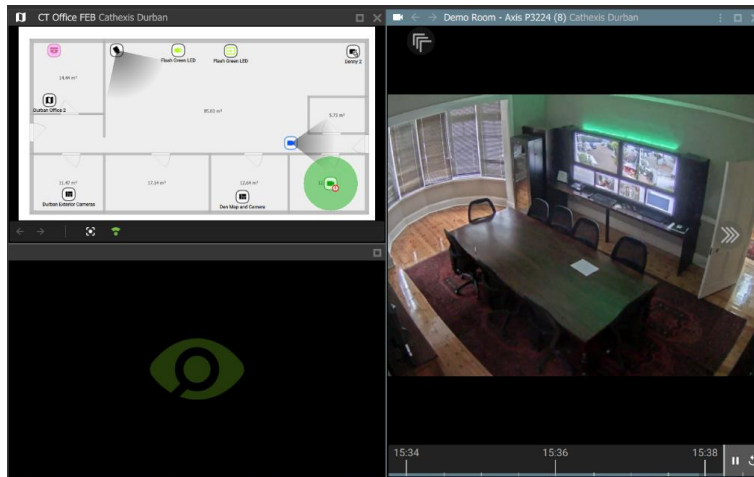
The *state* of the output will be indicated on the map by showing the *designated colour*.

5.10.4.2 Control Output



Right-click an output icon on the map for options to **control** the output.

From the drop-down menu that appears, **click an option** to select.

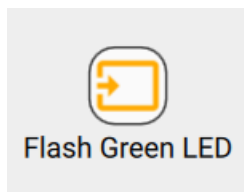


If there is a camera associated with the output, **drag and drop** the camera into another display panel to view the effects of the output action.

5.10.5 Viewing Inputs

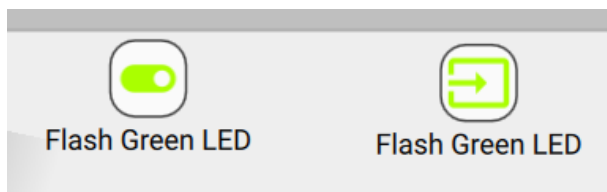
5.10.5.1 View State

To view the *state* of an input, it is necessary to know the settings for the icon that were created using the map editor tool ([7.1.3 Edit Appearance of Icons](#)).



Colours can be used to represent the state:

- Unknown
- High
- Low.



The *state* of the input will be indicated on the map by showing the *designated colour*.

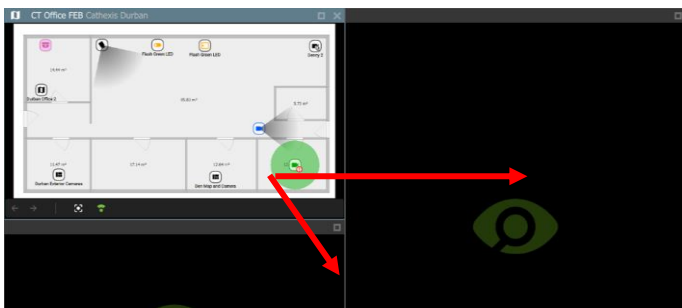
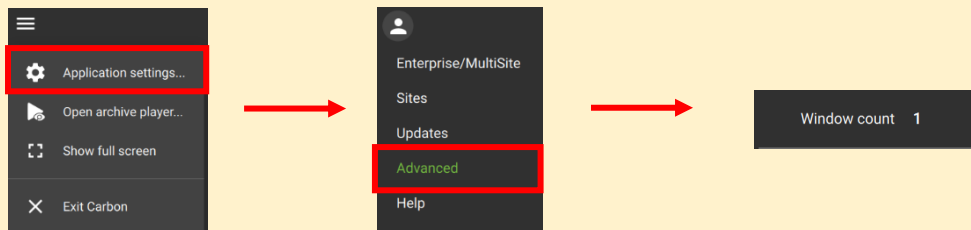
In the example on the left, the *output* icon (left) has been used to “switch on”, which results in a state change displaying on the *input* icon (right).

5.10.5 Placing Layouts

Layouts can be added as map objects.



Note: This feature can be used in tandem with configuring the window count in Carbon's advanced settings. This will enable the user to drag and drop a layout from a map in the Monitoring tab of one window, into a Monitoring tab in another window.



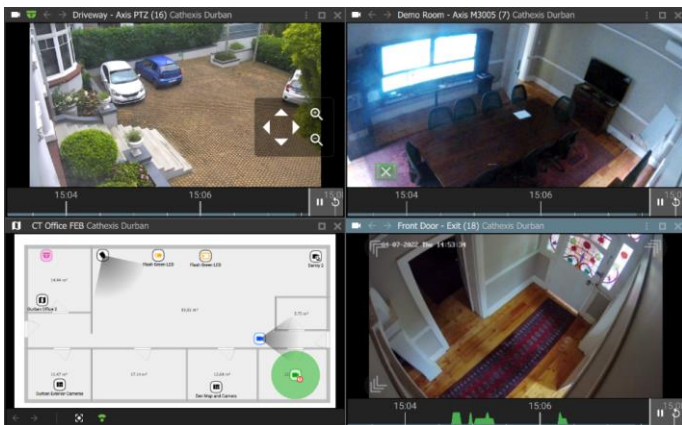
Left-click the layout icon on the map.

→ **Drag and drop** the Layout icon into another display panel.



The display will change, and the saved layout will fill the display panels.

If the map is not saved on the new layout, it will no longer be displayed.



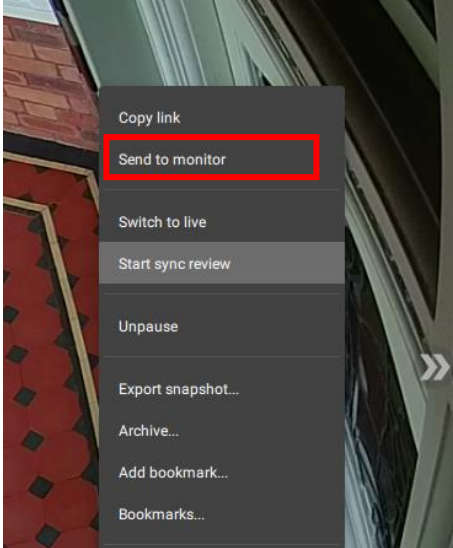
When creating a layout, it is possible to *add a map* and save as a new layout.



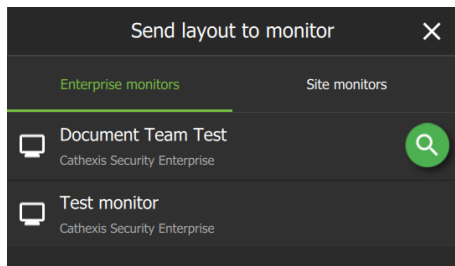
Include a map in a saved layout to see the map when using Layout icons.

5.11 Controlling a Monitor from the Monitoring Tab

5.11.1 Cast a Camera to a Monitor

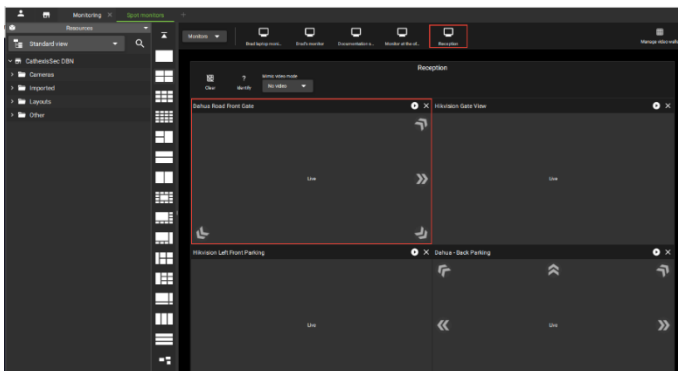


- Right-click the camera.
- Select **Send to monitor**.



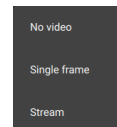
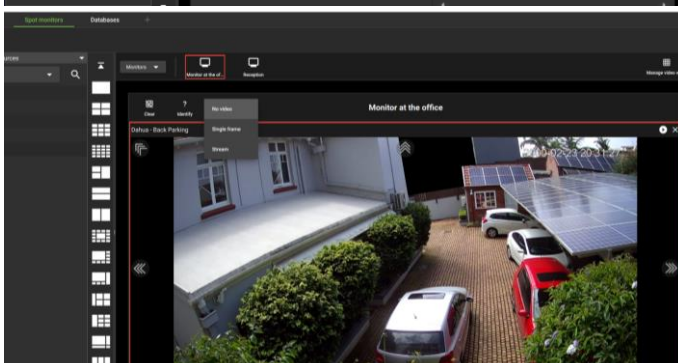
- **Choose** a monitor. (Depending on the installation, the options shown here will vary. Choose between **Enterprise monitors** and **Site monitors**, and then select a monitor.)
- **Click to select**.

Note: The camera cast to the selected monitor will replace the monitor's current contents with a single, full window video feed.

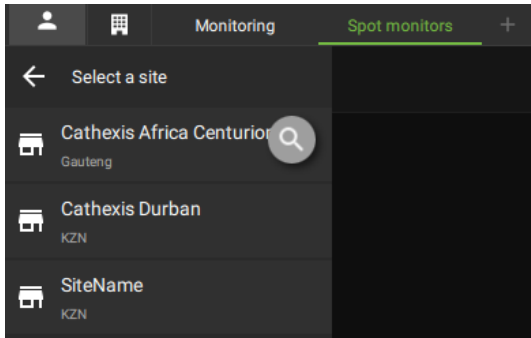


Use the tabs at the top of the screen to open the Site Monitor tab (or Monitors tab).

To view the current video from the monitor controller tab, **select the desired monitor** at the top of the panel.



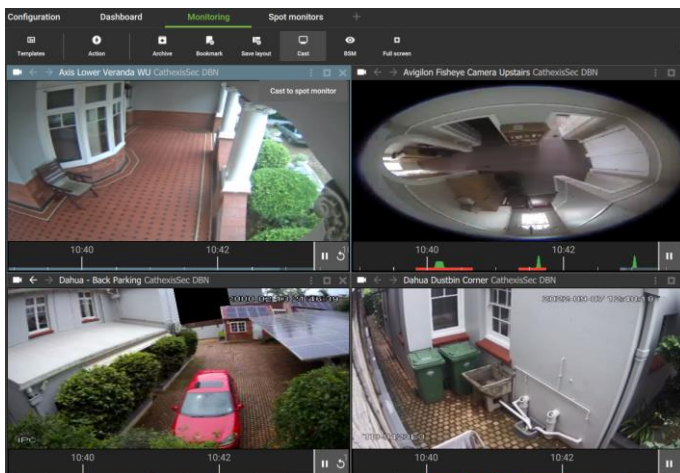
Click the drop-down menu to display **video options**.



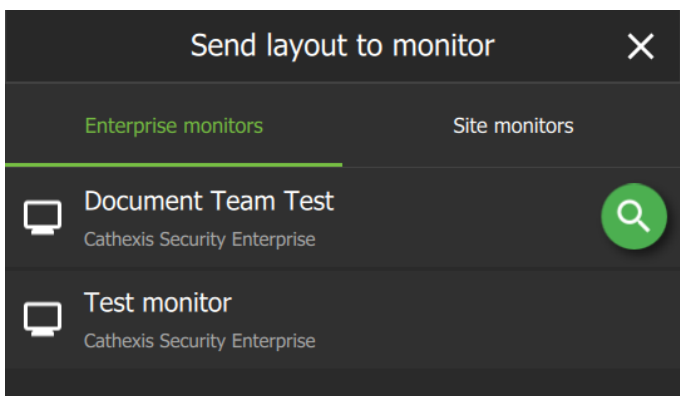
For a MultiSite or Enterprise connection, the option will be given to select the site from which to choose a monitor.

5.11.2 Cast a Layout to a Monitor

Once a layout has been arranged or selected in the Monitoring tab, the arrangement may be cast directly to the Site Monitor.

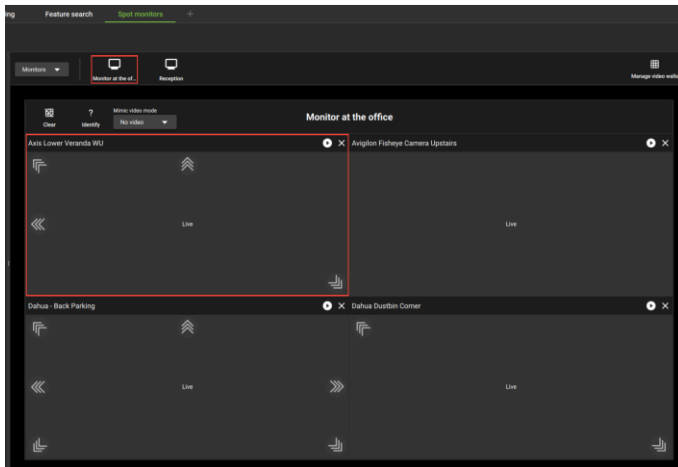


Click the **Cast icon**.



Choose the destination to which the layout will be cast.

Click to select.



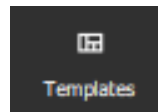
Navigate to the **Site monitor** tool using the tabs at the top of the screen.

Then, select the monitor chosen in the previous step by **clicking the correct label** at the top of the panel.

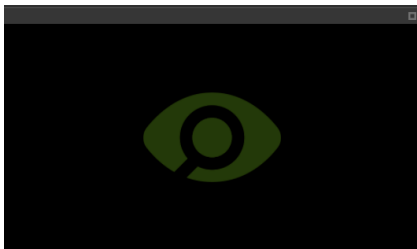
Click the **drop-down menu** to change video display options.

5.12 Alarm Black Screen Monitoring (BSM)

- When the Black screen monitoring (BSM) tool is used, only cameras which generate alarm signals activate footage in monitors. BSM allows video to be sent to a monitoring panel only when alarms are detected.
- Alarm BSM operates similarly to [Event BSM](#).

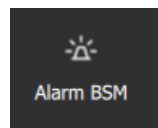
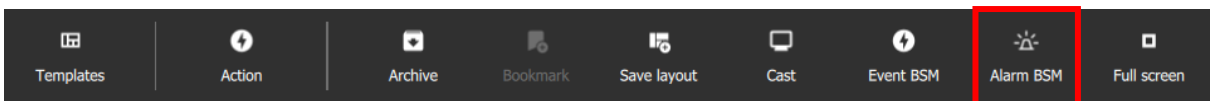


→ Choose a suitable template or use a single display.



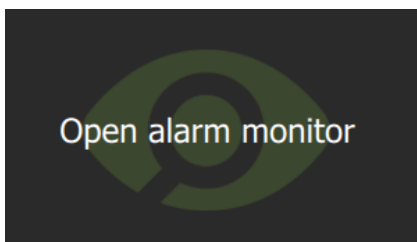
→ Select a destination display panel by clicking anywhere within the panel.

This display panel will become active after selecting cameras.



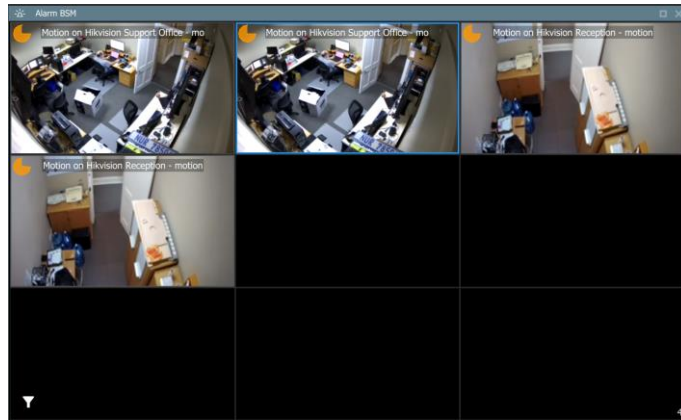
→ Click the **Alarm BSM** button.

The text “Open alarm monitor” will appear in the centre of the selected panel.



→ Click the text.

The selected panel will be populated with alarm feeds as they come in.



5.12.1 Open Alarm BSM Camera (Live Mode) in Other Display Panel

After Alarm BSM has been added to a display panel, it is then possible to open one of those cameras in live mode in another monitor panel.

→ To display individual cameras, **left-click** a camera, and **drag and drop** into the empty display.

5.12.2 Icons

The following view tools and icons are available:



→ Click this icon to maximise the black screen monitoring panel.



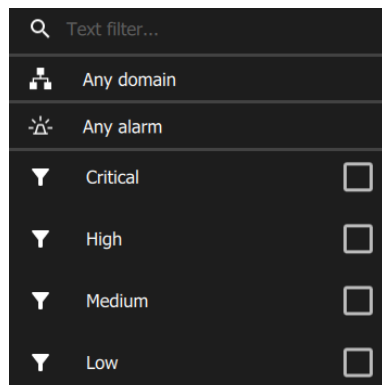
→ Click this icon to restore the black screen monitoring panel to its previous size.



The **clock face** is a visual depiction of the remaining time the footage will display after the event, indicating the amount of time left since the alarm was triggered. Adjust expiry time and minimum display time to change the length of time.



→ Click the filter icon to select filters for the incoming alarms.



→ Enter text in the field to filter by text.

→ Click Any domain to filter by a specified domain.

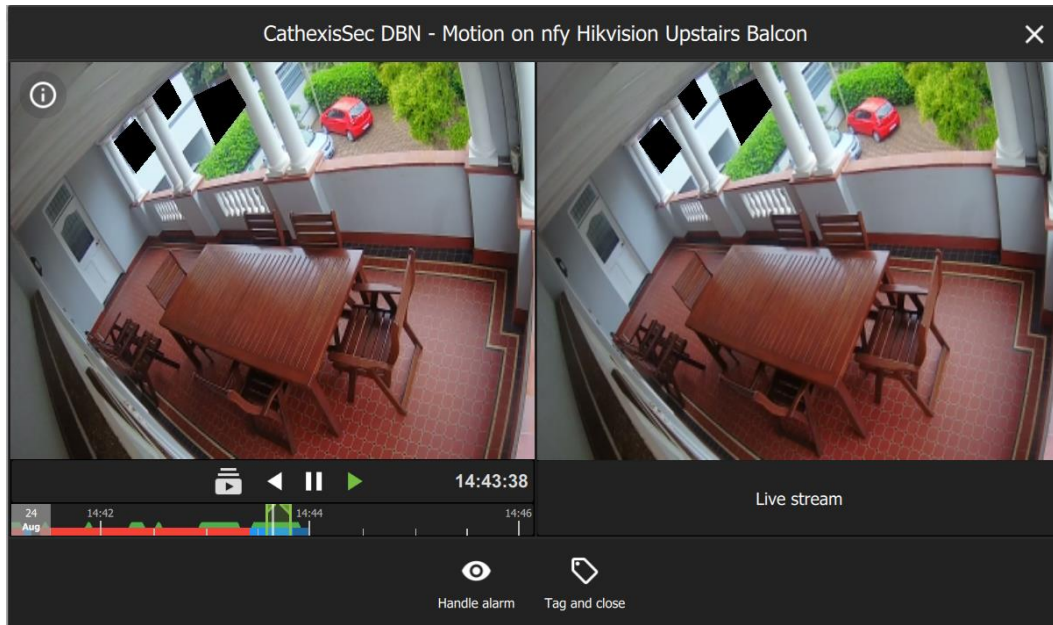
→ Click Any alarm to filter by a specified alarm.

→ Select the priority.

5.12.3 Preview Alarm

→ Double-click an alarm feed to open the Preview Alarm window.

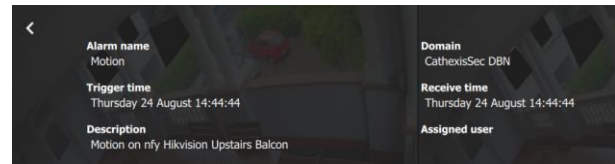
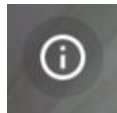
The preview footage will display on the left, and the live stream from that camera will display on the right.



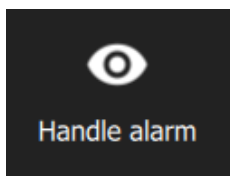
CathexisSec DBN - Motion on nfy Hikvision Upstairs Balcon

The domain and alarm trigger are listed at the top.

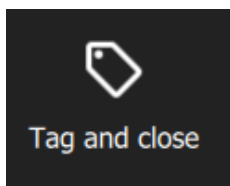
→ Click the information icon to view the alarm information.



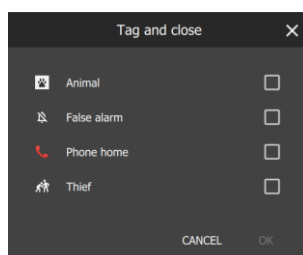
→ Use the navigation bar at the bottom of the preview panel to pause, play, go back, and scrub the feed.



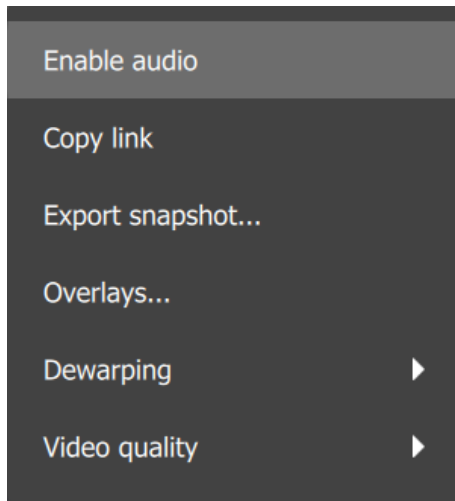
→ Click **Handle alarm** to open the [Alarm Viewer](#).



→ Click **Tag and close** to select a tag for the alarm and then close it.



5.12.3.1 Alarm Preview Right-Click Options

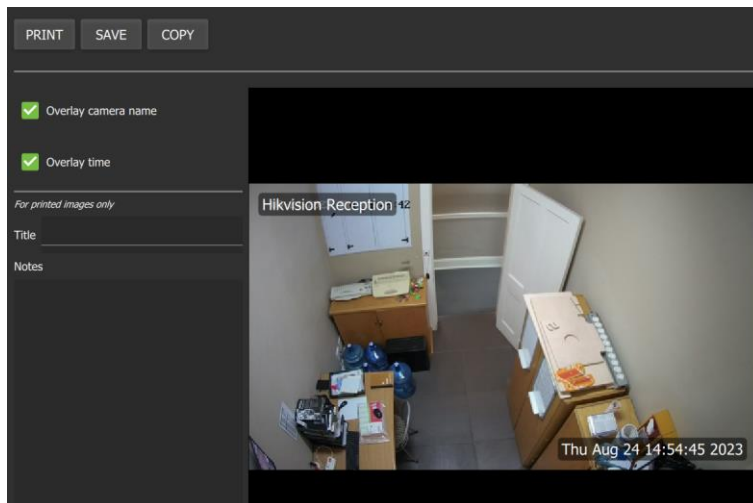


→ Right-click the alarm feed to view further options.

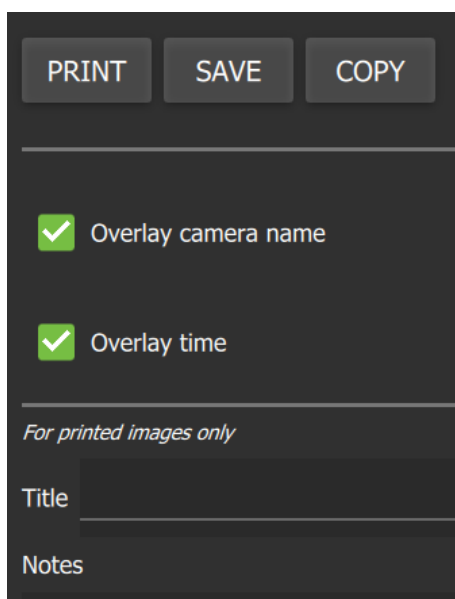
Enable audio: Click this to enable audio (if this option is available on that camera).

Copy link: Click this to copy a link to the stream, which can be pasted in the Archive builder.

Export snapshot



→ Selecting **Export snapshot** will open this window.



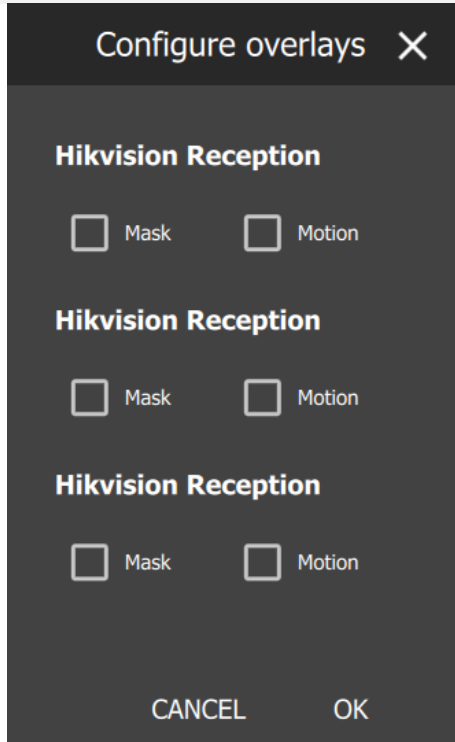
→ Select whether the snapshot will display the camera name in an overlay.

→ Select whether the snapshot will display the time in an overlay.

→ For printed images, it is possible to add a title and notes.

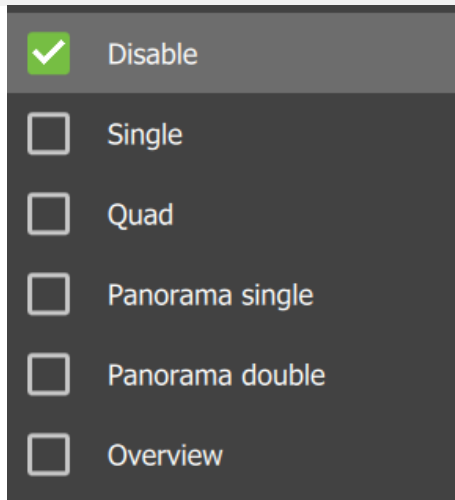
→ Click **Print**, **Save** or **Copy** (a link to the snapshot).

Overlays



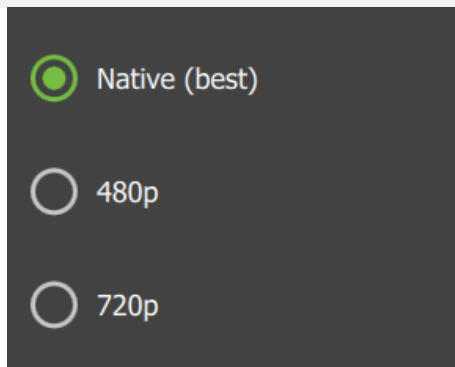
- Selecting **Overlays** will open the **Configure Overlays** window.
- Check the overlays to be displayed.
- Click **OK**.

Dewarping



- Select **Dewarping** to open the menu.
- Enable an option, if dewarping is necessary.

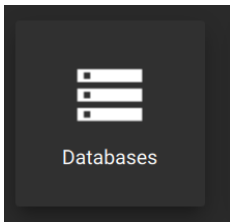
Video quality



- Select **Video quality** to choose a video quality.

6. Databases (Main) Tab

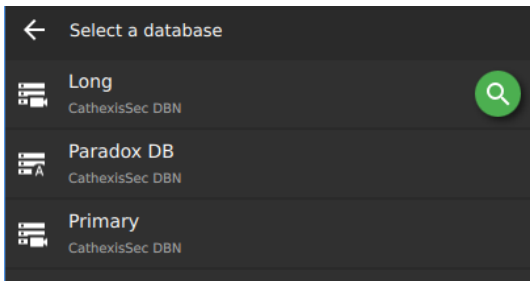
The databases section combines access to metadatabase and video database recordings in one interface.



From the home menu, click the Databases icon to open a new Databases tab.

6.1 Selecting and Viewing a Database

Databases will appear in a list on the left side.



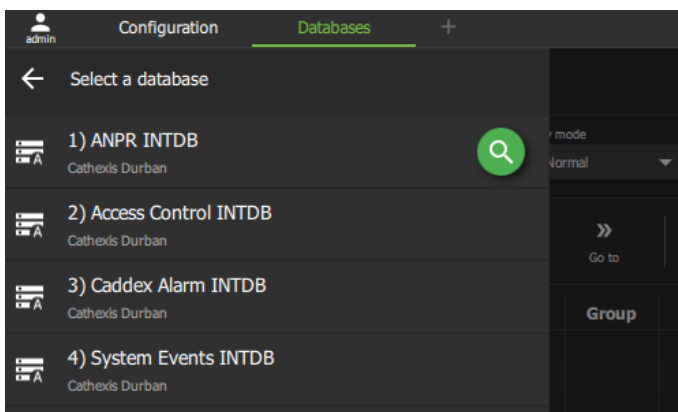
A **metadatabase**, indicated with the **'A'** icon, contains extensive detail using **text data**.

Use links to access associated video footage.



A **video database**, indicated with the **camera icon**, is where video is stored.

6.1.1 Search for a Database



Click the search icon to open the search field.

Type the name of the database to search for a database name.

The database will open in the panel, where events and details will be listed.

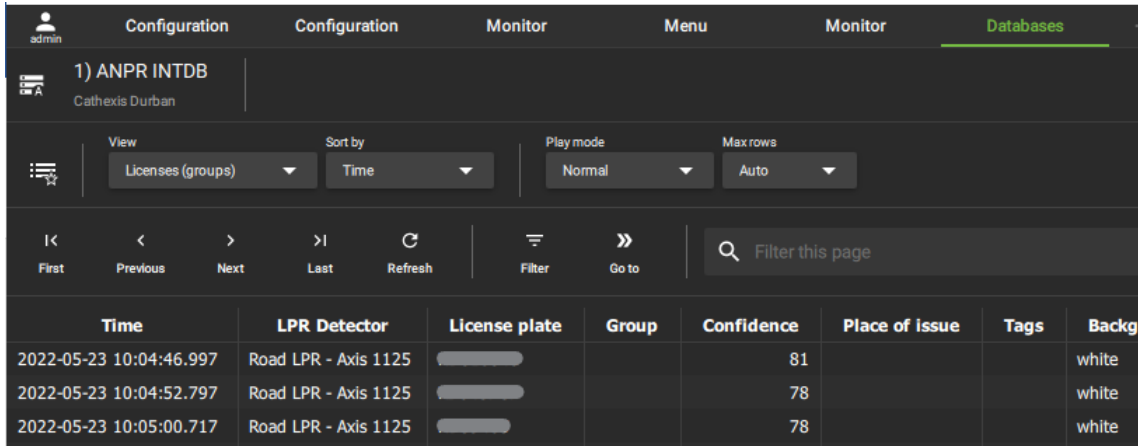
6.1.2 Select a Database

Click a **list item** to select a database.

6.1.3 Viewing a Database

Details correspond with the type of database.

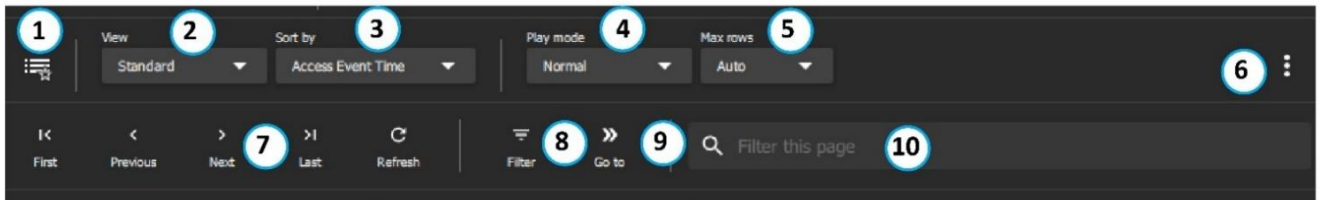
In the example below, the ANPR database displays License plate details.



The interface for the **metadatabase** differs slightly from the interface for the **video database**.

The features of each are described in the sections below.

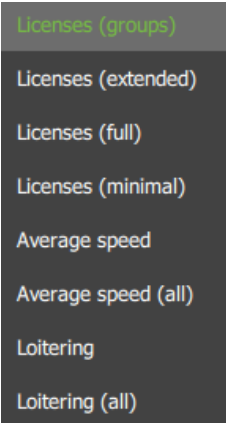
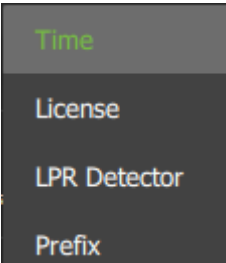

6.2 Metadatabase Interface


















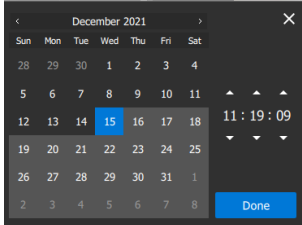



Note:

1. Click the **Filter icon** (8) to search *all* data.
2. Use the **Filter this page** (10) tool to narrow down results from *only* those currently displayed on the page.
3. The **controls** (7) can be used to page through displayed results, which are limited by the **number of rows**. For example, if the **Max rows** (5) chosen is 1000 results per page, click the **Previous** icon to see the 1000 results that precede those on the display.

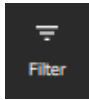
 Custom View	<p>Users may change the way the database is presented, by adjusting any View and Sort by options.</p> <div style="display: flex; align-items: center; margin: 10px 0;"> <p>Saving the sorted list creates a custom view.</p> </div> <p>For example, a search can be filtered according to ID, and saved as a Custom View named "Events sorted by ID."</p>
------------------------	---

<p style="text-align: center;">2</p> <p style="text-align: center;">View</p>	<p>View options can be adjusted. Some integration databases have multiple View options. For instance, the ANPR database presents the following drop-down menu as View options:</p> 						
<p style="text-align: center;">3</p> <p style="text-align: center;">Sorted by</p>	<p>Events can only be sorted by certain parameters. These are specific to each database. For example, the following search parameters are available for an ANPR database:</p> 						
<p style="text-align: center;">4</p> <p style="text-align: center;">Play mode</p>	<p>The way event footage is reviewed in the right-hand display can also be changed. Choose between:</p> <table border="0" data-bbox="341 1196 1425 1368"> <tr> <td style="padding-right: 10px;">Normal</td> <td>After the event plays, the video stream will continue playing forward until paused.</td> </tr> <tr> <td>Skip</td> <td>After an event plays, the next item in the database list will begin playback.</td> </tr> <tr> <td>Loop</td> <td>An event will play until the end of the segment, then begin again on repeat.</td> </tr> </table>	Normal	After the event plays, the video stream will continue playing forward until paused.	Skip	After an event plays, the next item in the database list will begin playback.	Loop	An event will play until the end of the segment, then begin again on repeat.
Normal	After the event plays, the video stream will continue playing forward until paused.						
Skip	After an event plays, the next item in the database list will begin playback.						
Loop	An event will play until the end of the segment, then begin again on repeat.						
<p style="text-align: center;">5</p> <p style="text-align: center;">Max rows</p>	<p>Choose from a list of options the number of rows displayed in the main page, between 10 and 10 000, or choose the Auto function to fit rows to the screen size.</p> <p>The pages created can then be navigated using the Controls.</p>						
<p style="text-align: center;">6</p> <p style="text-align: center;">Database menu</p>	<p> The menu icon opens database menu options.</p> <table border="0" data-bbox="341 1682 1425 1877"> <tr> <td style="padding-right: 10px;">Export...</td> <td>Generate metadatabase reports in PDF or CSV format.</td> </tr> <tr> <td>Manage reports...</td> <td>Add a new report, and modify settings, including filters.</td> </tr> <tr> <td>Settings...</td> <td>Change the playback settings for events. Adjust the number of seconds of lead-in and lead-out time.</td> </tr> </table> <p>For more information, see section 6.4 Database Menu.</p>	Export...	Generate metadatabase reports in PDF or CSV format.	Manage reports...	Add a new report, and modify settings, including filters.	Settings...	Change the playback settings for events. Adjust the number of seconds of lead-in and lead-out time.
Export...	Generate metadatabase reports in PDF or CSV format.						
Manage reports...	Add a new report, and modify settings, including filters.						
Settings...	Change the playback settings for events. Adjust the number of seconds of lead-in and lead-out time.						
<p style="text-align: center;">7</p> <p style="text-align: center;">Controls</p>	<p>Controls relate to the pages created by using the Max Rows tools.</p> <p>Use a control tool to jump to other pages.</p> <p>For example, if the Max Rows (per page) is set at 500:</p>						

	<table border="1"> <tr> <td data-bbox="352 174 472 297">  First </td> <td data-bbox="472 174 1425 297"> The First icon can be used to jump to the first page of results (e.g. the first page of 500 rows). </td> </tr> <tr> <td data-bbox="352 297 472 421">  Previous </td> <td data-bbox="472 297 1425 421"> The Previous icon can be used to jump to the previous page of results (e.g. the previous 500 rows). </td> </tr> <tr> <td data-bbox="352 421 472 544">  Next </td> <td data-bbox="472 421 1425 544"> The Next icon can be used to navigate forward in time to more recent pages of (e.g. forward through pages of 500 rows). </td> </tr> <tr> <td data-bbox="352 544 472 667">  Last </td> <td data-bbox="472 544 1425 667"> The Last page shows the most recent entries, and can be used to jump quickly back to these results. </td> </tr> <tr> <td data-bbox="352 667 472 790">  Refresh </td> <td data-bbox="472 667 1425 790"> Click Refresh to reload the page which can then include up-to-the-minute results from the database. </td> </tr> </table>	 First	The First icon can be used to jump to the first page of results (e.g. the first page of 500 rows).	 Previous	The Previous icon can be used to jump to the previous page of results (e.g. the previous 500 rows).	 Next	The Next icon can be used to navigate forward in time to more recent pages of (e.g. forward through pages of 500 rows).	 Last	The Last page shows the most recent entries, and can be used to jump quickly back to these results.	 Refresh	Click Refresh to reload the page which can then include up-to-the-minute results from the database.
 First	The First icon can be used to jump to the first page of results (e.g. the first page of 500 rows).										
 Previous	The Previous icon can be used to jump to the previous page of results (e.g. the previous 500 rows).										
 Next	The Next icon can be used to navigate forward in time to more recent pages of (e.g. forward through pages of 500 rows).										
 Last	The Last page shows the most recent entries, and can be used to jump quickly back to these results.										
 Refresh	Click Refresh to reload the page which can then include up-to-the-minute results from the database.										
<p style="text-align: center;">  Filter </p>	<p>Use the Filter tool to search <i>all</i> data in the integration database.</p> <p>Multiple filters can be added from this window.</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; background-color: #333; color: white; padding: 5px; width: 150px;"> <p style="font-size: 0.8em; margin: 0;">Configure filters</p> <p style="margin: 5px 0;">+</p> <p style="margin: 5px 0;">Start Time</p> <p style="margin: 5px 0;">End Time</p> <p style="margin: 5px 0;">Description</p> <p style="margin: 5px 0;">Server</p> <p style="margin: 5px 0;">Priority</p> <p style="margin: 5px 0;">Name</p> </div> <div style="margin-left: 20px;"> <p>The filter options will change for each database. The image on the left shows an example of a drop-down menu of filter options.</p> </div> </div> <p>See below, 6.2.1 Using the Filter in the Metadatabase, for instructions about how to add search filters.</p>										
<p style="text-align: center;">  Go to </p>	<p>Enter and search for an event using the time and date panel.</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; background-color: #333; color: white; padding: 5px; width: 180px;">  </div> <div style="margin-left: 20px;"> <p>The time and date panel will open in a new dialogue from the Go to icon.</p> </div> </div>										
<p style="text-align: center;">  Filter this page </p>	<p>Organise the results in the page using the Filter this page tool. Use the tool to narrow down results from <i>only</i> those currently displayed on the page.</p> <p>Filter by any term or part of items that appear in the main page.</p> <p>Only the results from the current page will display.</p>										

6.2.1 Using the Filter in the Metadatabase Interface

Use this tool to search and filter *all* entries, including those currently not displayed on the page.

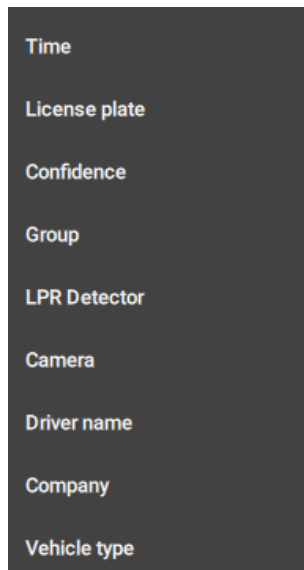


Click the **filter icon** to open the filter dialogue.

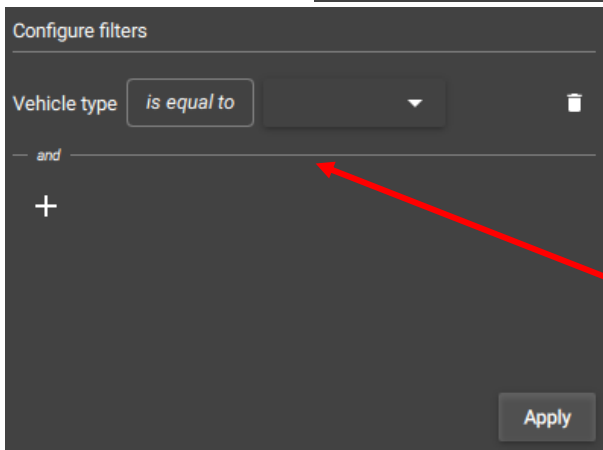


Click the **plus icon** to **add**/configure filters.

A drop-down menu will appear. The filter options will vary according to the database. Below is an example of a drop-down menu of filter options:



Click an **item** to select.



Additional fields will appear which allow the user to search using the filter.

For example, if filtering by Vehicle Type, it will be necessary to specify Ford/Kia etc.

Click the **text field** to see more options, or click the **arrow** to see the drop-down menu.



Click the **plus icon** to **add filters**.

Click Apply to finish.

Depending on which filter is chosen, the search will be further specified by:

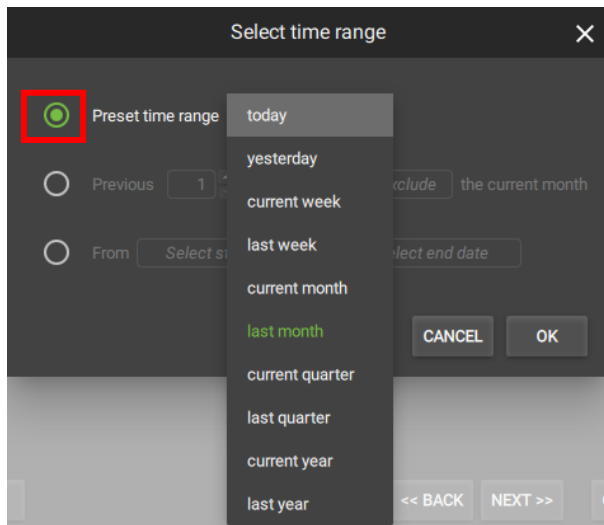
- a) typing into a text field,
- b) by choosing and option from a drop-down menu,
- c) or by following prompts in a new dialogue box.

6.2.1.1 Time/Time Stamp/Start Time Filters: Select Time Range

If the filter that is chosen is Time, Timestamp or Start Time (this depends on the integration), a new dialogue box will prompt the user.

For filtering results according to Start Time, Time or Timestamp, a time range must be selected. There are three options for how to do this.

- The first option filters by a *preset* time range, *by periods* such as week, month, or year.
- The second option specifies the *number* of days/week/months in the *previous* period.
- The third option specifies *exact dates*.

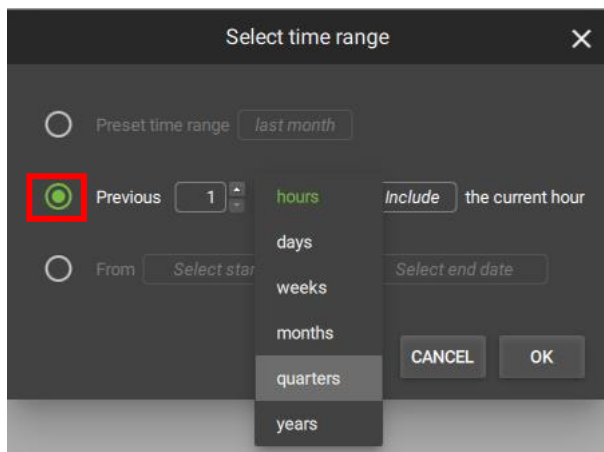


To choose or change the *preset time range*, make sure this option is **selected** by clicking the bullet so that it turns green.

Click the **text field** to open the drop-down menu.

Choose a **period of time** by which to filter the results.

Click OK.



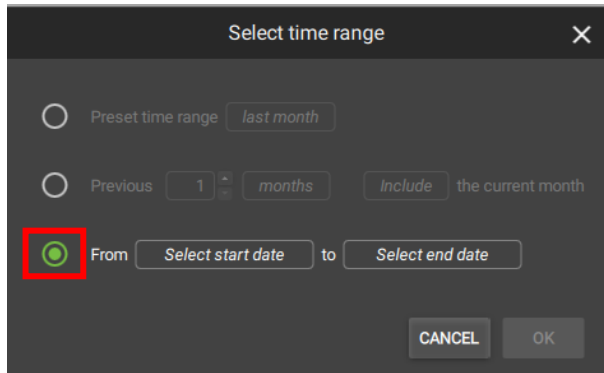
To choose or change the *specified previous period*, make sure the option is **selected** by clicking the bullet so that it turns green.

Use the **arrows** to adjust the number.

Click the **text field** (“months”) to open the **drop-down menu**.

Choose a **time period** for the filter.

Click the **“Include/Exclude”** field to choose between these options. This will include/exclude the current period (e.g. this month).



To choose or change the time filter to be *specified by date*, make sure the option is **selected** by clicking the bullet so that it turns green.

Click both the **start date** and **end date text fields**.

This will open up calendars. Choose the dates from the calendars.

Click OK.

6.2.1.2 Add Additional Filter



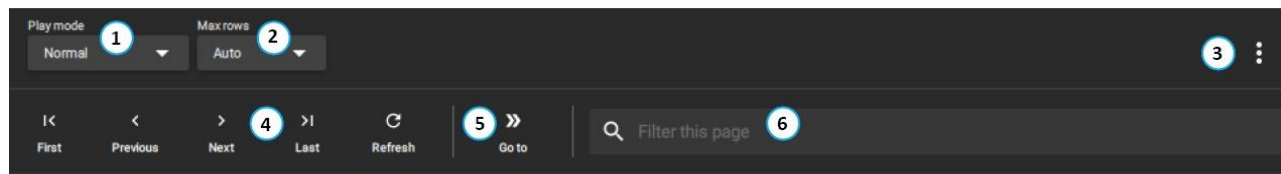
Click the plus icon to add additional filters. A drop-down menu will show, with filters relevant to the metadatabase.


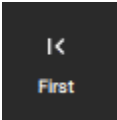
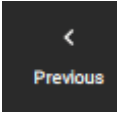
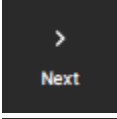
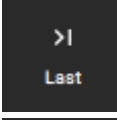
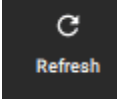
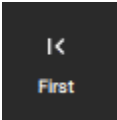
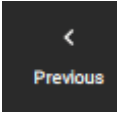
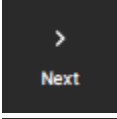
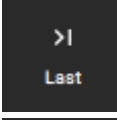
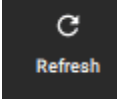
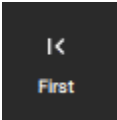
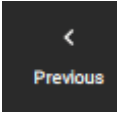
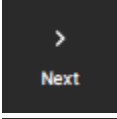
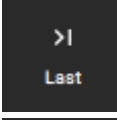
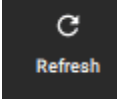
Use the steps above to fill in or select the text fields to complete the filter setup.

6.2.1.3 Explanation of Search Terms

Search Term	Explanation
is equal to	The filter will search for the entire item mentioned in the field alongside. A search for Catherine will show all results that contain the whole term. Searching for “Cath”, using “is equal to”, will not show results for Catherine.
is not equal to	The filter will exclude the whole term, and show the remaining entries from the database.
is one of	The filter will provide a list of multiple options that can be added. This is a way to <i>include multiple items</i> of one type in one filter (e.g. more than one vehicle make).
is not one of	The filter will provide a list of multiple options that can be excluded. This is a way to <i>exclude multiple items</i> of one type in one filter (e.g. more than one vehicle make).
contains	The filter can conduct a search using part of the word or phrase. The search returns results using any part of the term that is typed into the field. Searching for “Cath” or “Cat” will both yield “Catherine” in the results.
does not contain	The filter can conduct a search using part of the word or phrase. The search returns results excluding any part of the term that is typed into the field. Searching “does not contain” and using “Cath” or “Cat” will both exclude “Catherine” in the final results.

6.3 Video Database Interface



<p>1</p> <p>Play mode</p>	<p>The way event footage is reviewed in the right-hand display can also be changed. Choose between:</p> <table border="1"> <tr> <td>Normal</td> <td>After the event plays, the video stream will continue playing forward until paused.</td> </tr> <tr> <td>Skip</td> <td>After an event plays, the next item in the database list will begin playback.</td> </tr> <tr> <td>Loop</td> <td>An event will play until the end of the segment, then begin again on repeat.</td> </tr> </table>	Normal	After the event plays, the video stream will continue playing forward until paused.	Skip	After an event plays, the next item in the database list will begin playback.	Loop	An event will play until the end of the segment, then begin again on repeat.				
Normal	After the event plays, the video stream will continue playing forward until paused.										
Skip	After an event plays, the next item in the database list will begin playback.										
Loop	An event will play until the end of the segment, then begin again on repeat.										
<p>2</p> <p>Max Rows</p>	<p>Choose the number of rows displayed in the main page, between 10 and 10 000, or choose the Auto function to fit rows to the screen size.</p> <p>The pages created can then be navigated using the Controls.</p>										
<p>3</p> <p>Database Menu</p>	<p> The menu icon opens database menu options.</p> <table border="1"> <tr> <td>Export...</td> <td>Generate metadatabase reports in PDF or CSV format.</td> </tr> <tr> <td>Settings...</td> <td>Change the playback settings for events. Adjust the number of seconds of playback lead-in and lead-out time.</td> </tr> </table>	Export...	Generate metadatabase reports in PDF or CSV format.	Settings...	Change the playback settings for events. Adjust the number of seconds of playback lead-in and lead-out time.						
Export...	Generate metadatabase reports in PDF or CSV format.										
Settings...	Change the playback settings for events. Adjust the number of seconds of playback lead-in and lead-out time.										
<p>4</p> <p>Controls</p>	<p>Controls relate to the <i>pages</i> created by using the Max Rows tools.</p> <p>Use a control tool to jump between pages.</p> <p>For example, if the Max Rows (per page) is set at 500:</p> <table border="1"> <tr> <td></td> <td>The First icon can be used to jump to the first page of results (e.g. the first page of 500 rows).</td> </tr> <tr> <td></td> <td>The Previous icon can be used to jump to the previous page of results (e.g. the previous 500 rows).</td> </tr> <tr> <td></td> <td>The Next icon can be used to navigate forward in time to more recent pages of (e.g. forward through pages of 500 rows).</td> </tr> <tr> <td></td> <td>The Last page shows the most recent entries, and can be used to jump quickly back to these results.</td> </tr> <tr> <td></td> <td>Click Refresh to reload the page which can then include up-to-the-minute results from the database.</td> </tr> </table>		The First icon can be used to jump to the first page of results (e.g. the first page of 500 rows).		The Previous icon can be used to jump to the previous page of results (e.g. the previous 500 rows).		The Next icon can be used to navigate forward in time to more recent pages of (e.g. forward through pages of 500 rows).		The Last page shows the most recent entries, and can be used to jump quickly back to these results.		Click Refresh to reload the page which can then include up-to-the-minute results from the database.
	The First icon can be used to jump to the first page of results (e.g. the first page of 500 rows).										
	The Previous icon can be used to jump to the previous page of results (e.g. the previous 500 rows).										
	The Next icon can be used to navigate forward in time to more recent pages of (e.g. forward through pages of 500 rows).										
	The Last page shows the most recent entries, and can be used to jump quickly back to these results.										
	Click Refresh to reload the page which can then include up-to-the-minute results from the database.										

5

Go to

Enter and search for an event using the time and date panel. It will open in a new dialogue.

Click the field in the pop-up.

This will provide a calendar view. **Choose the date and time** and select Done.

6

Filter this page

Organise the results in the page using the **Filter this page** tool. Use the tool to narrow down results from *only* those currently displayed on the page.

Filter by any term or part of items that appear in the main page, for example, “Door” or “Tamper alarm”.

Only the results from the current page will display once the filter has been applied.

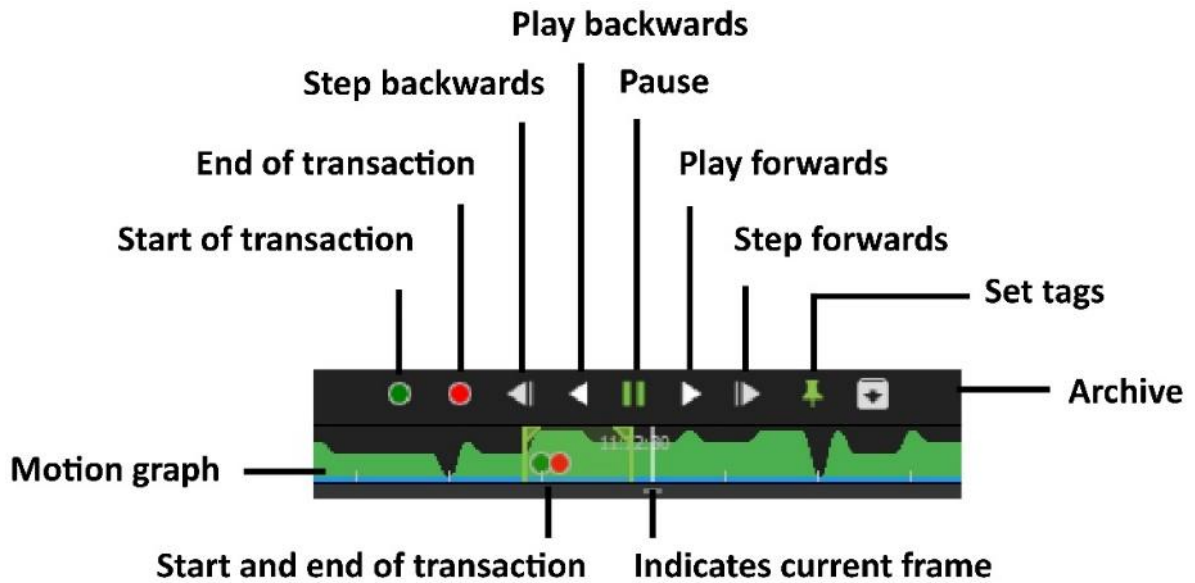
“Filter this page” applies automatically.

6.3.1 Viewing Video Footage Associated with an Event

Click an item in the list on the left (as shown below) to play video footage associated with the event. Video will play in the review panel on the right-hand side.

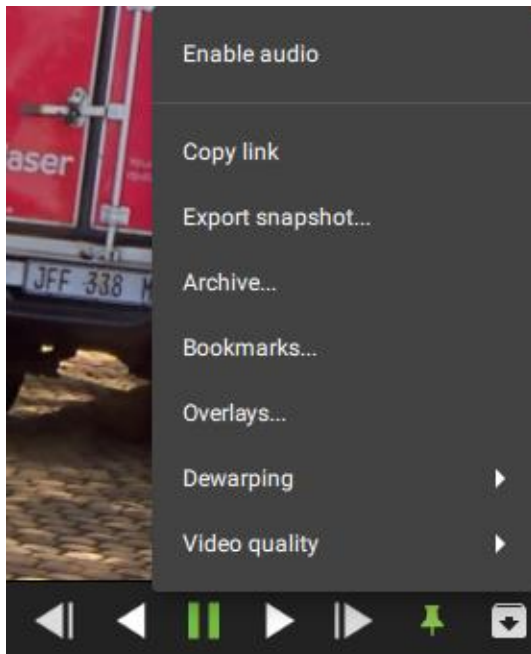
Time	LPR Detector	License plate	Group	Confidence	Place of issue	Tags	Background color	Text c
2022-05-23 10:04:46.997	Road LPR - Axis 1125	AM000000		81		white	black	
2022-05-23 10:04:52.797	Road LPR - Axis 1125	AM000000		78		white	black	
2022-05-23 10:05:00.717	Road LPR - Axis 1125	AM000000		78		white	black	
2022-05-23 10:05:11.257	ANPR- Dahua LPR	MMA00000		76		white	black	
2022-05-23 10:05:27.057	ANPR- Dahua LPR	QW000000		73		white	black	
2022-05-23 10:07:46.72	Road LPR - Axis 1125	AM000000		93		white	black	
2022-05-23 10:08:17.52	Road LPR - Axis 1125	AM000000		78		black	white	
2022-05-23 10:08:18.52	Road LPR - Axis 1125	AM000000		77		white	black	
2022-05-23 10:08:19.52	Road LPR - Axis 1125	AM000000		69		black	white	
2022-05-23 10:08:20.52	Road LPR - Axis 1125	AM000000		88		white	black	
2022-05-23 10:08:51.8	Road LPR - Axis 1125	AM000000		84		white	black	
2022-05-23 10:09:04.247	ANPR- Dahua LPR	AM000000		62		white	black	
2022-05-23 10:09:24.401	Road LPR - Axis 1125	AM000000		92		white	black	
2022-05-23 10:09:24.837	ANPR- Dahua LPR	AM000000		82		white	black	
2022-05-23 10:09:35.121	Road LPR - Axis 1125	AM000000		88		white	black	
2022-05-23 10:10:38.802	Road LPR - Axis 1125	AM000000		87		white	black	
2022-05-23 10:10:41.802	Road LPR - Axis 1125	AM000000		85		white	black	
2022-05-23 10:10:57.722	Road LPR - Axis 1125	AM000000		86		white	black	
2022-05-23 10:11:18.602	Road LPR - Axis 1125	AM000000		91		white	black	
2022-05-23 10:11:22.402	Road LPR - Axis 1125	AM000000		91		white	black	
2022-05-23 10:11:30.002	Road LPR - Axis 1125	AM000000		86		white	black	

6.3.1.1 Database Review Controls



6.3.1.2 Database Review Panel Right-Click Menu

Many of the review features available in the Monitoring tab are also available in the database review window.



Right-click the display panel.

A drop-down menu will appear.

Click an item to select.

Review Features Summary Table

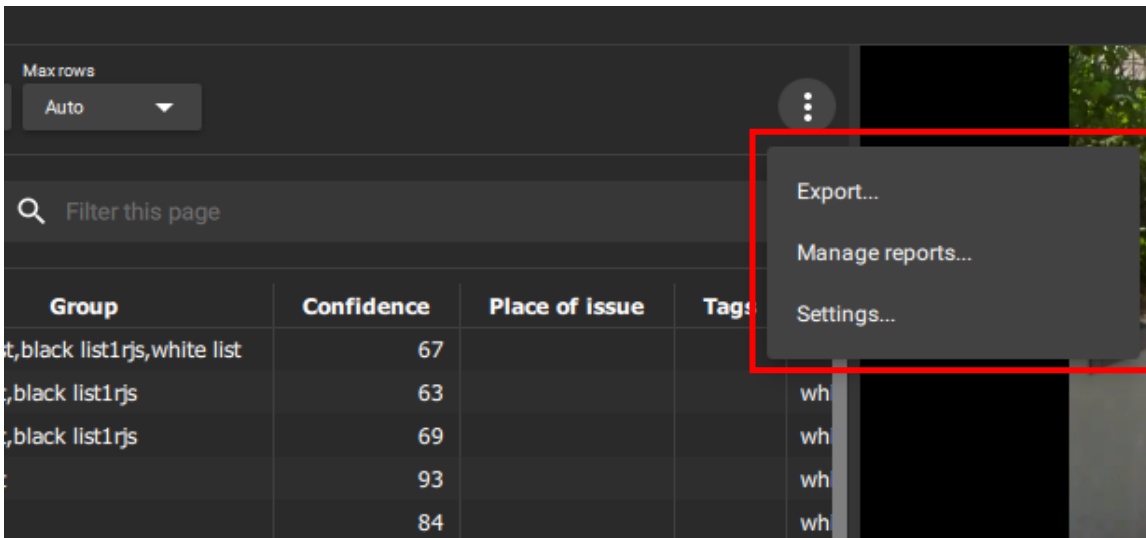
LABEL	DESCRIPTION
Enable audio	Listen to the audio track where one is available.
Copy link	Create a link. Once this has been selected, the link can be pasted into another display panel.
Export snapshot...	Open a window to print snapshot, save to folder, copy to system clipboard, or copy to clipboard. The user may choose to include the camera name and time of snapshot in the overlays.
Archive...	Save and export a video segment.
Bookmarks	Bookmarks can be viewed and managed in the bookmarks section.
Overlays	Use a PTZ overlay where applicable to control the camera.
Dewarping	Enable or disable dewarping settings.
Video quality	The user may select the camera video stream resolution they wish to view.

6.4 Database Menu



The database menu is found at the top of table and indicated by three dots (the menu icon).

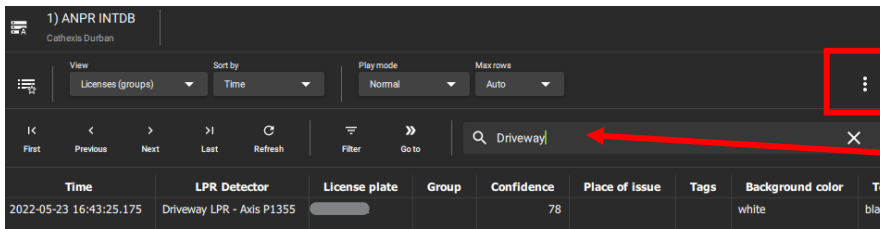
Click the menu icon **once** to see the drop-down menu as shown in the image below.



The subsections below explain how to use the menu functions. These are **Export**, **Manage reports**, and **Settings**.

6.4.1 Export

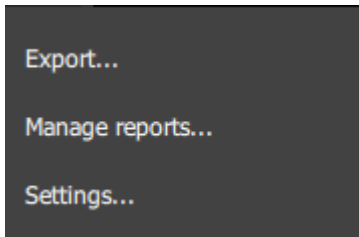
To export search results and save, first, **filter search results** using the tools in the top panel.



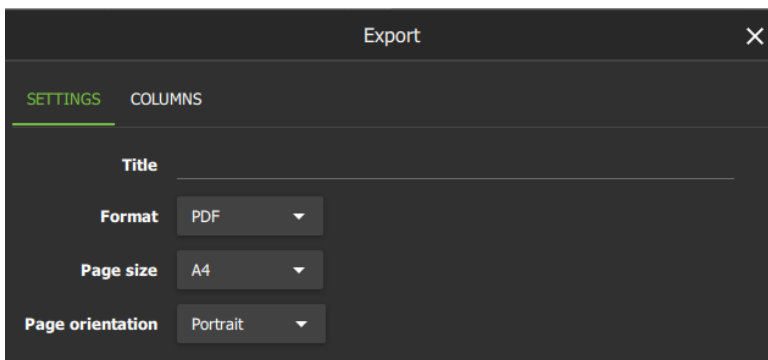
For example, type a **key word** into the search bar to filter results on the page. E.g. Driveway.



Then click the menu icon.



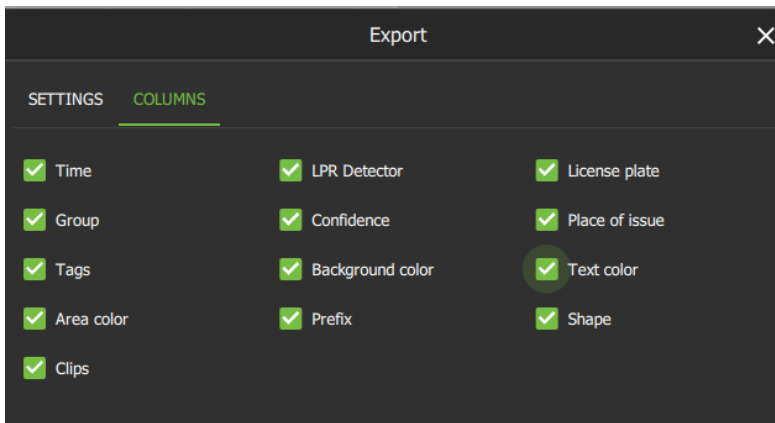
Click **Export...** to select.



In the **SETTINGS** tab, enter a title for the document.

Use the **drop-down menus** to choose between:

- **PDF and CSV** format.
- **A3 and A4** Page size.
- **Portrait and Landscape** Orientation.



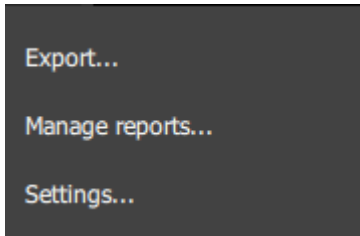
In the **COLUMNS** tab, choose which columns will show in the document.

Uncheck boxes to deselect columns.

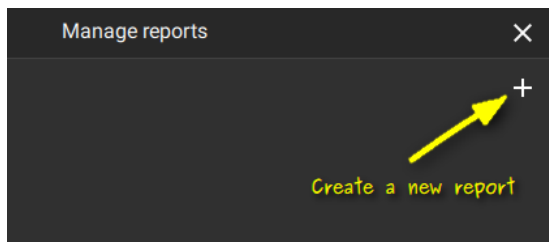
The options that appear in this tab will *vary* according to the integration or *database*.

6.4.2 Manage Reports (Metadatabase Only)

To **manage reports**, click the **menu icon**.

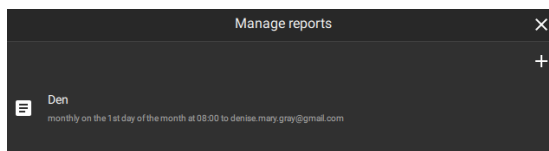


Click **Manage Reports...** to select.



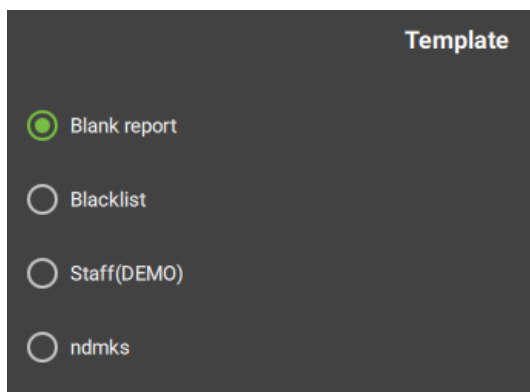
A new window will open with the Manage reports screen.

Click the **plus icon** as indicated to create a new report.



Or, click on an existing report to edit the report.

6.4.2.1 New Report: Template



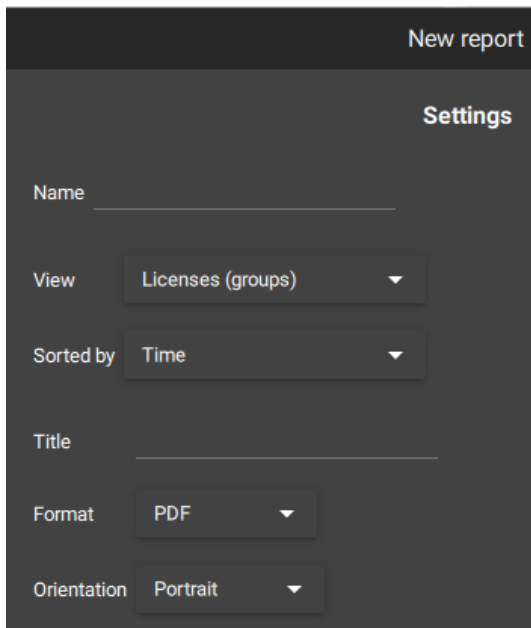
Some integrations will show the Templates window, which allows the user to choose between template types.

In the example shown on the left, the ANPR database has a number of saved templates.

Choose a suitable option.

Click **NEXT**.

6.4.2.2 New Report: Settings



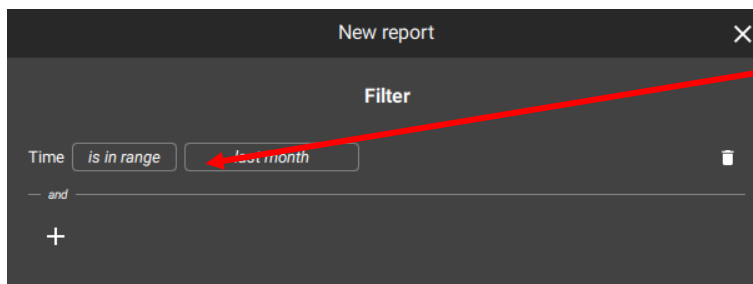
For all integrations, create a new report by entering the Settings.

- Enter a **descriptive name** in the text field.
- Click the **drop-down menu** to choose a **view**.
Note: Options vary depending on the metadatabase.
- Click the **drop-down menu** to choose a **sorting** option. **Note:** These vary depending on the metadatabase.
- Enter a **title** in the text field.
- Click the **drop-down menu** to choose between **PDF** and **CSV** format.
- Click the **drop-down menu** to choose between **Portrait** and **Landscape** page orientation.
- Click **NEXT**.

6.4.2.3 New Report: Filter

When sending a report, a recommended filter is suggested at the top of the new window. This is **Start Time, Time, or Timestamp**. **Note:** The options depend on the integration.

The subsections below explain how to add a filter like this.



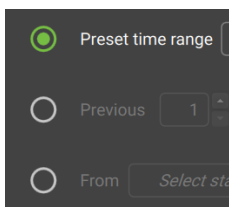
Click **the fields** to see more options.

In the example alongside, the first field provides options to determine the **search range**.

The second field opens a new window with **time range** options. These are explained below.

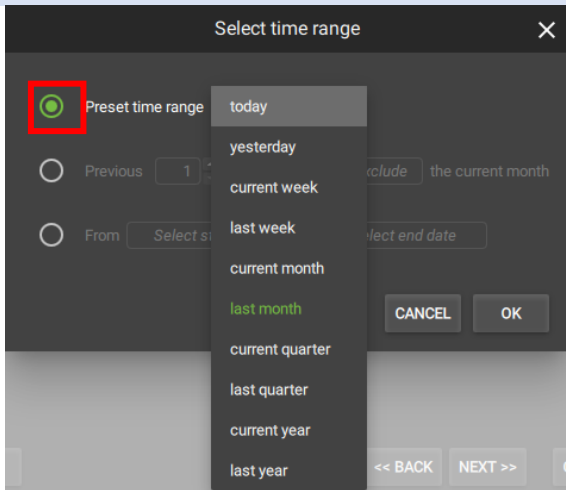
New Report: Select Time Range

Choose from three time range options when filtering results according to Start Time, Time or Timestamp.



- The first option reports a preset time range, by periods such as week, month, or year.
- The second option specifies the number of days/week/months in the previous period.
- The third option specifies exact dates.

Preset time range



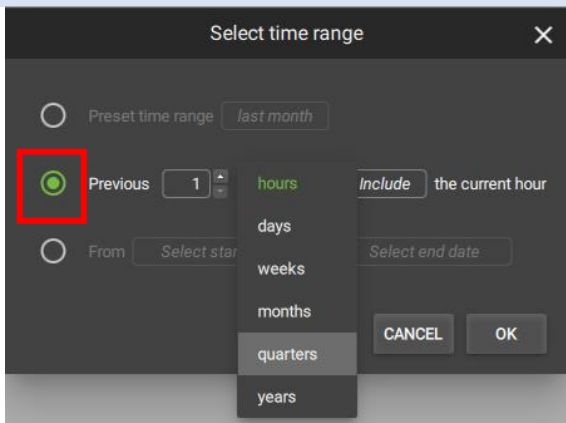
To choose or change the **preset time range**, make sure the option is **selected**.

Click the **text field** to open the drop-down menu.

Choose a **period of time** by which to filter the results.

Click OK.

Previous period



To choose or change the **specified previous period**, make sure the option is **selected**.

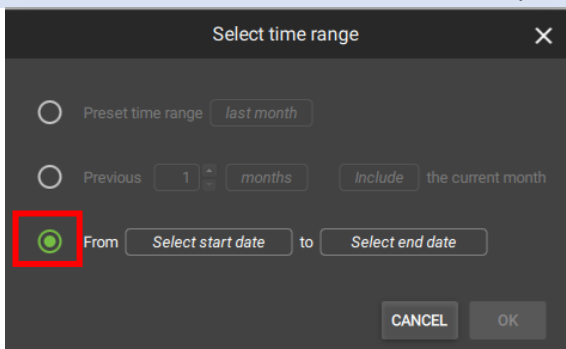
Use the **arrows** to adjust the number.

Click the **text field** (“months”) to open the **drop-down menu**.

Choose a **time period** for the filter.

Click the **“Include/Exclude”** field to choose between these options. This will include/exclude the current period (e.g. this month).

Specific dates



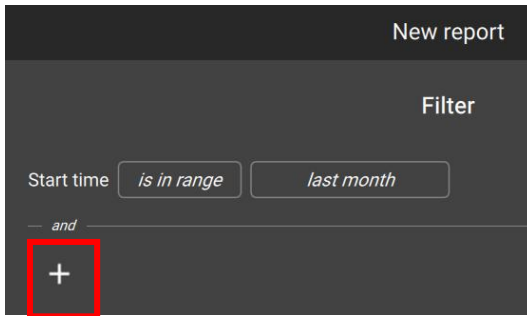
To choose or change the time filter to be **specified by date**, make sure the option is **selected**.

Click both the **start date** and **end date text fields**.

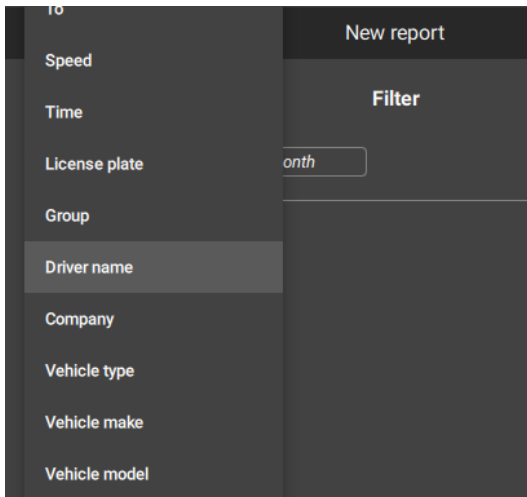
This will open up a calendar. Choose the dates from the calendar.

Click OK.

New Report: Add Additional Filter

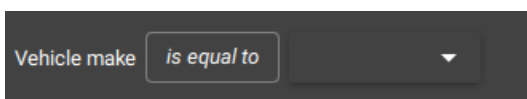


→ Click the plus icon to add filters.
A drop-down menu will show, with filters relevant to the metadatabase.

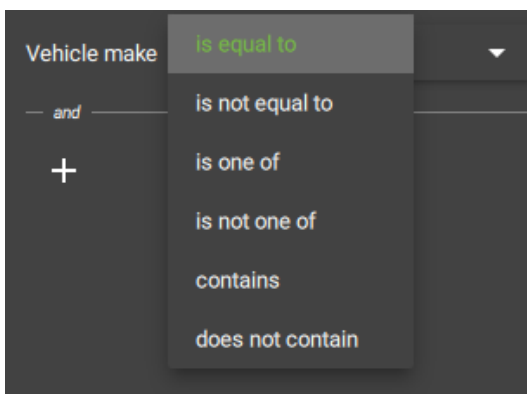


→ Click a **filter** to select.

Once the filter is selected, further options will be available.



→ Click the **text field** (here, “is equal to”) to open a drop-down menu.

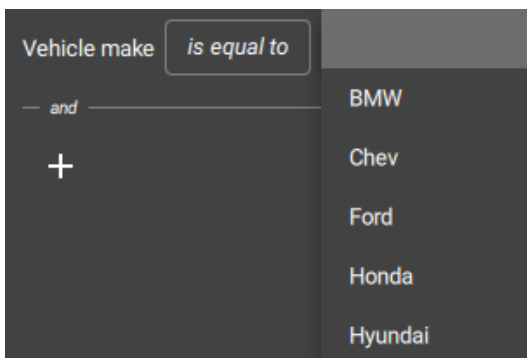


→ **Choose** a search term.

This field modifies the field which follows.

In this example, the term “is equal to” relates to the drop-down menu which appears alongside.

See the table below for an explanation of these search filters.



→ **Select an item** from the drop-down menu.

The search will be filtered according to this item.

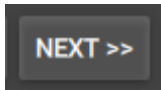
Note: The options in the drop-down menu vary depending on the database.



Click the **trash icon** to delete a search filter.



Click the **plus icon** to add additional filters.




Click **NEXT**.

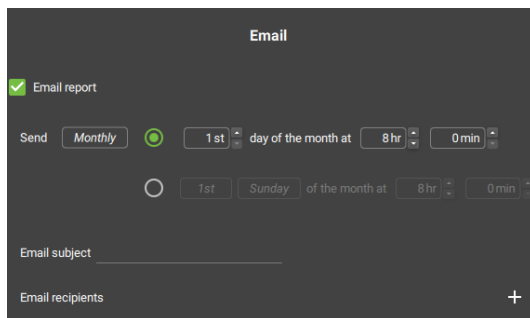
Explanation for Search Terms

The following search terms are options on the drop-down menu that may appear when the text field next to the filter is clicked.

Search Term	Explanation
is equal to	The filter will search for the entire item mentioned in the field alongside. A search for Catherine will show all results that contain the whole term. Searching for “Cath”, using “is equal to”, will not show results for Catherine.
is not equal to	The filter will exclude the whole term, and show the remaining entries from the database.
is one of	The filter will provide a list of multiple options that can be added. This is a way to <i>include multiple items</i> of one type in one filter (e.g. more than one vehicle make).
is not one of	The filter will provide a list of multiple options that can be excluded. This is a way to <i>exclude multiple items</i> of one type in one filter (e.g. more than one vehicle make).
contains	The filter can conduct a search using part of the word or phrase. The search returns results using any part of the term that is typed into the field. Searching for “Cath” or “Cat” will both yield “Catherine” in the results.
does not contain	The filter can conduct a search using part of the word or phrase. The search returns results excluding any part of the term that is typed into the field. Searching “does not contain” and using “Cath” or “Cat” will both exclude “Catherine” in the final results.

6.2.2.4 New Report: Set Up Email

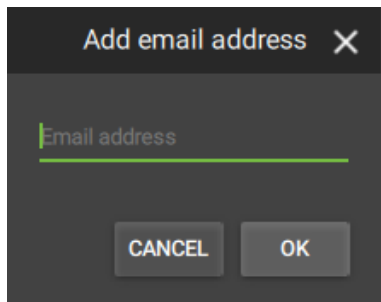
 **Note:** Email will only function if the SMTP configuration has been done in CathexisVision. Consult the *CathexisVision Setup Manual* for more information.



- Select the Email report **check box**.
- Click the field to choose the **frequency** of reports.
- Choose between **date or day** of the month
- Use the **arrows** to set the day/date and time to send reports
- Enter the **email subject** in the field.



Click the **plus icon** to add email **recipients**.



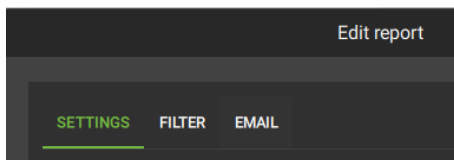
- Enter the **email address** of the recipient in the field.
- Click **OK**.

- To add additional recipients, click the plus icon again.
- Click **OK** to complete the Email setup.

6.2.2.5 Manage Reports: Edit Report

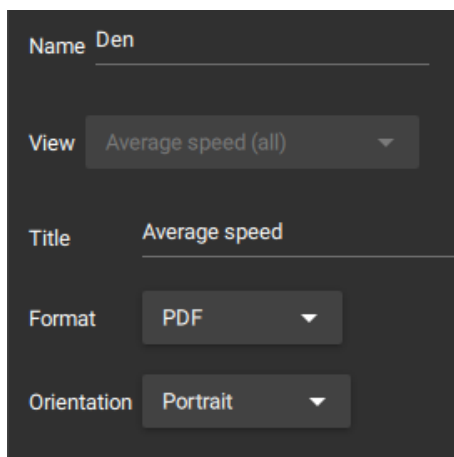
Click an item in the Manage report screen to edit a report.

Here, the information captured in the setup process (above) can be found under the three tabs: **SETTINGS**, **FILTER**, and **EMAIL**.



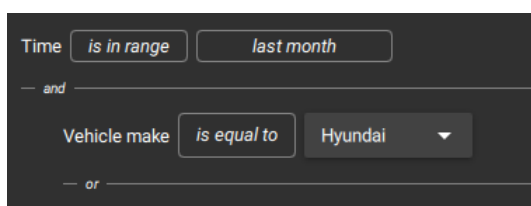
Choose a tab to edit the report.

Edit Report: Settings



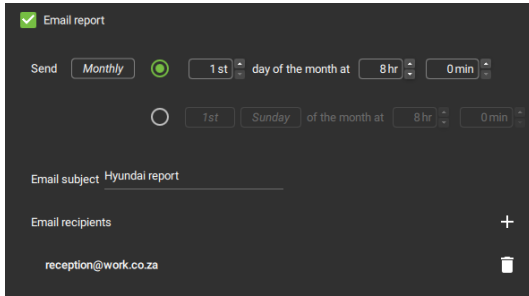
Select the **SETTINGS** tab to change the report Name, View, Title, Format, and Orientation.

Edit Report: Filter



Select the **FILTER** tab to change the time range, and to add or delete filters.

Edit Report: Email

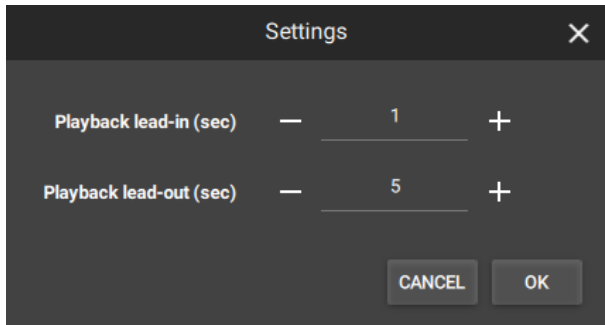


Select the **EMAIL** tab to change the time and date the message is sent, as well as the recipient address.

6.2.3 Database Settings

The database settings change the timing on the video playback.

Lead-in and lead-out time is extra time that plays before and after an event is detected.

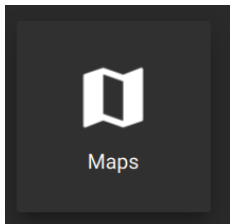


Click the **plus and minus icons** to add or remove time (in seconds) to the beginning and end of the video footage.

Click **OK**.

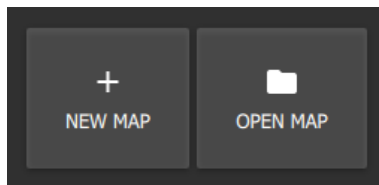
7. Maps Tab

Maps allow the operator to create maps or view resources in map format.

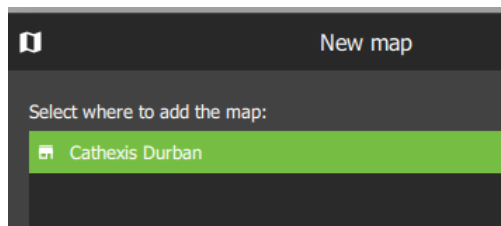


From the home menu, click the Maps icon to open a new Maps tab.

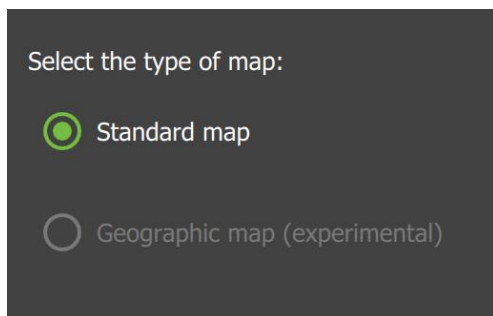
7.1 Create New Map



→ Click **NEW MAP** to create a new map.

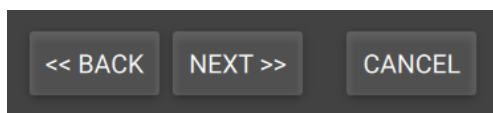


→ To add a map, **select the site** to which the map will be added.

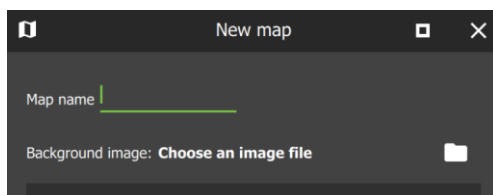


→ Select the type of map.

Note: Only **Standard map** is currently available (geographic maps are still in development).



→ Click the **NEXT** button.



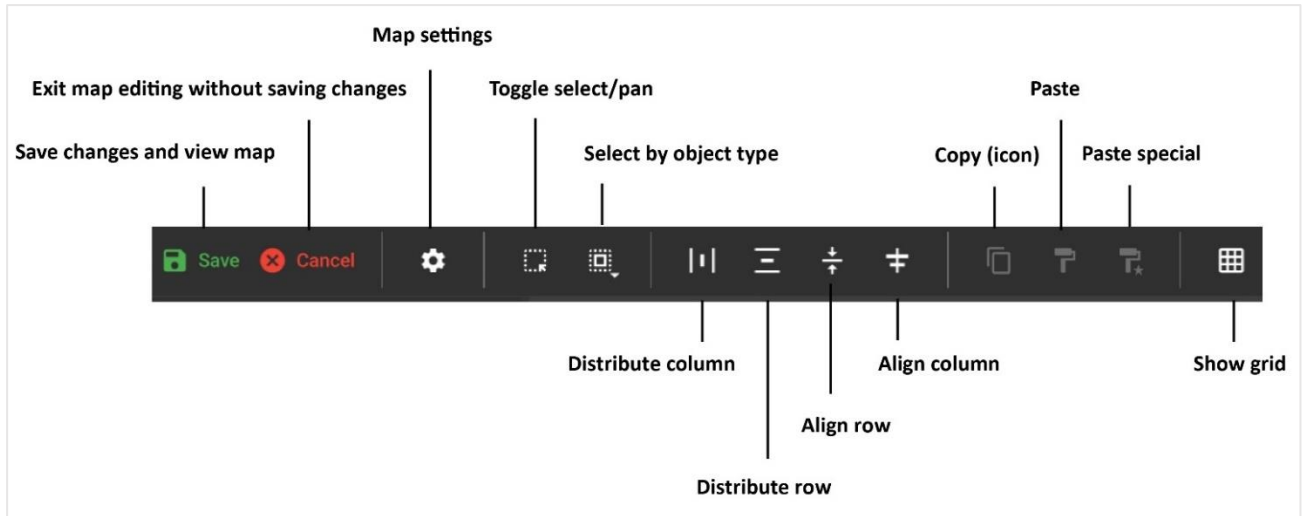
→ Give the map a descriptive **name**.

→ Click the folder icon to choose a **background image**, such as a photograph or diagram.

→ Click OK.

7.1.1 Map Tools: Top Menu Bar

The top panel contains map editing tools that are useful for modifying maps. See [7.1.3 Edit Appearance of Icons](#) for instructions about using the side panel tools to customise individual icons.



Settings

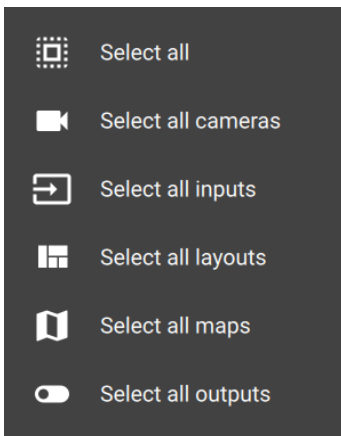


Click the **gear icon** to change map name or select a new background image.

Select All by Type



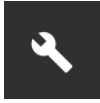
Click this **select all** icon to open a drop-down menu.



The menu will adjust depending on map objects.

Click an option to select *all icons* of a particular type.

7.1.2 Adding Resources to Map



Once the map has been opened, click the **edit tool** in the top left to open up editing settings.

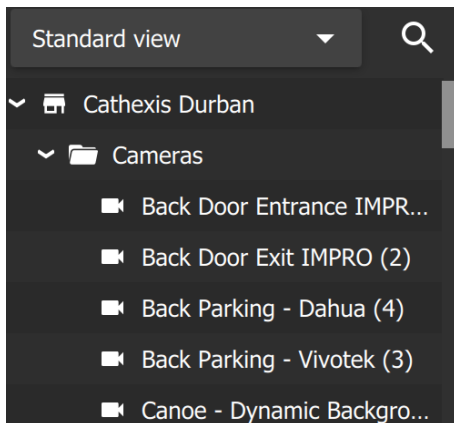


Note: To view and edit a resource on the map, the user needs *permission*. Permission can be given in the [Configuration Tab](#), by selecting the user, and then the PERMISSIONS tab. Click the drop-down menu on the RESOURCE tab to select the relevant resource, and then use the plus icon to add items. Refer to [8.4.4.1 Manage Permissions: Add a Resource to a User](#) for more information.

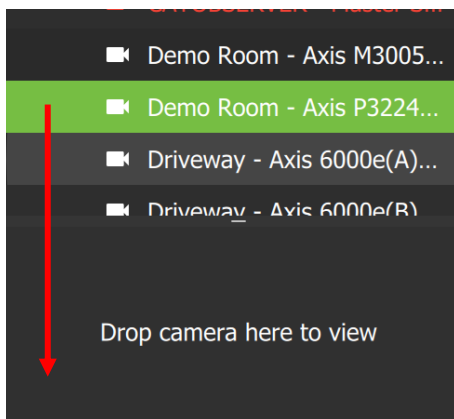
Additionally, click the GLOBAL tab and check the boxes to edit and delete maps ([8.4.4.3 Manage Permissions: Global Tab](#)). Once permissions have been granted, resources will appear in the folder tree on the left side of the map editor in the Maps tab.

7.1.2.1 Add Cameras to Map

Use the steps below to add a camera, PTZ camera, fisheye camera, or camera group to the map.

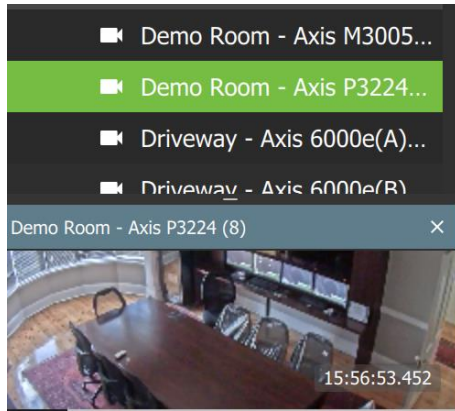


Open the relevant folder from the list on left-hand side, e.g. Cameras.



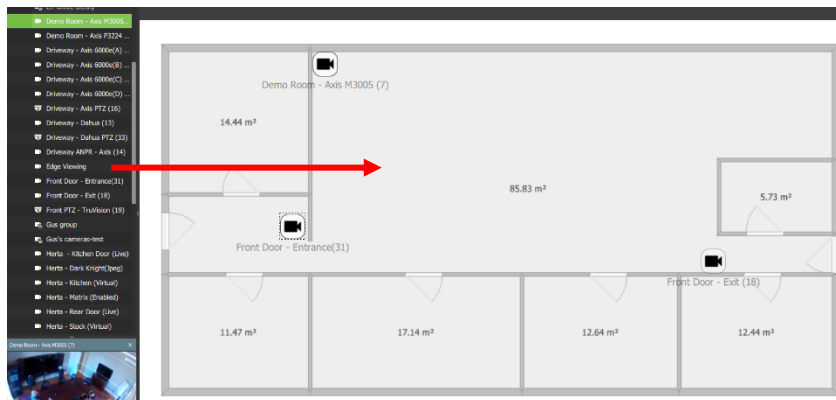
Click on a camera in the list.

Then, **drag and drop** to the **small display panel below** to view the camera.



The selected camera will play in the view screen below.

Zoom in or out with a mouse that has a scrolling tool.



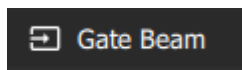
To add a camera to the map, **drag and drop** cameras from the list onto the background image.

The cameras will appear as icons on the image.

Note: Camera *groups* cannot be previewed in the Maps tap but can be used in the Monitoring tab.

7.1.2.2 Add Inputs and Outputs to Map

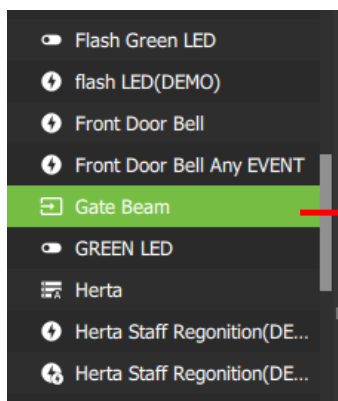
First, locate inputs or outputs in the folders in the resource folder tree on the left-hand side.



Inputs are indicated by a **square and arrow** icon.



Outputs are indicated by a **switch** icon.



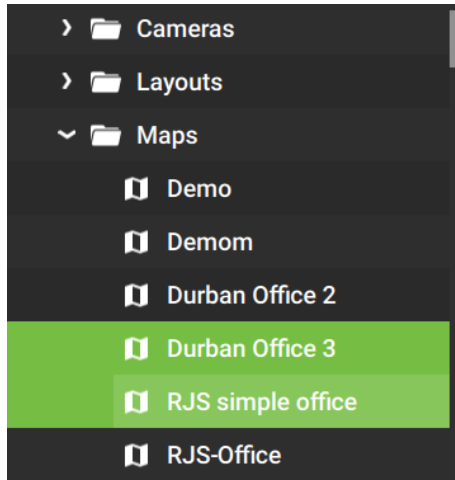
To add an input to the map, **select an input** from the folder tree on the left.

Drag and drop onto the map.

A menu will appear on the right for editing the icon.

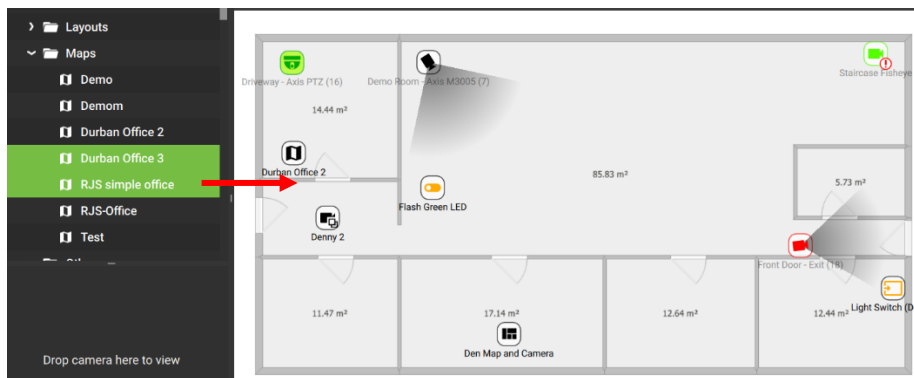
7.1.2.3 Add a Map (Icon) to Map

First, locate available maps in on the left-hand side of the map editor.



Open the **appropriate folder** in the folder tree on the left-hand side.

Click on a map in the list. Multiple items may be selected.



Drag and drop the map/s from the list onto the background image.

The maps will appear as icons on the image.

7.1.2.4 Add Other Resources to Map

Various resources can be added to the map as icons in the map editor.

Other Resources Which Perform Map Actions



The **camera layout icon** and the **camera group icon** can be added to the map by **dragging and dropping** from the folder tree on the left-hand side onto the background image.

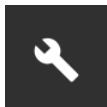
These two icons only perform actions when using the map in the Monitoring tab. From the Monitoring tab they can be dragged onto an open display panel. Cameras represented by the layout or group will appear in the panels.

Site Resources Visible on the Map

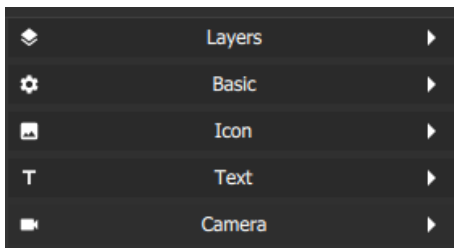
Icons can be placed on the map, but are purely for viewing purposes. The following icons can be placed on the map by dragging and dropping, but do not allow map actions at this time:

ICON	DESCRIPTION
	VMS event
	VMS sub-event
	Line crossing sensor
	Metadatabase
	Motion sensor
	Presence sensor
	Speed sensor
	Stop in area sensor
	Video databases

7.1.3 Edit Appearance of Icons

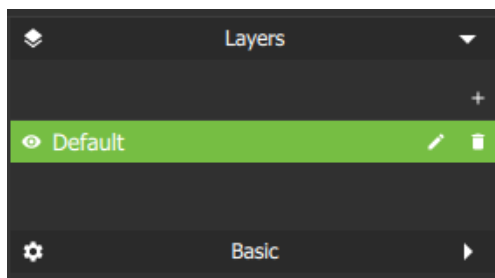


From the map editor, click the edit tool in the top left to open up editing settings.



Double-click the camera icon on the map to open editing tools for icons.

7.1.3.1 Layers



Open the Layers menu to view the Default menu bar.



Click the view icon to hide or show cameras.

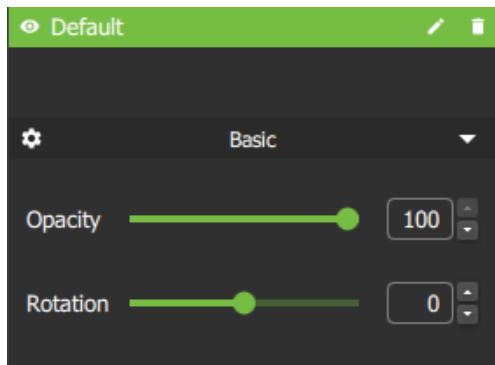


Click the edit icon to give the layer a name.



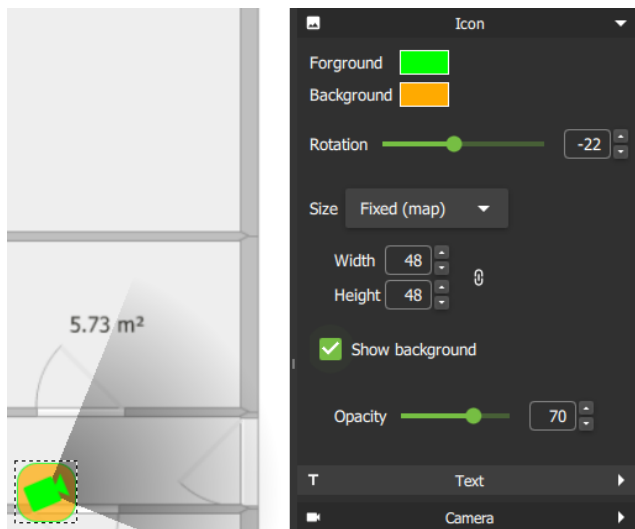
Click the trash icon to delete the layer, which will remove the cameras from the background image.

7.1.3.2 Basic



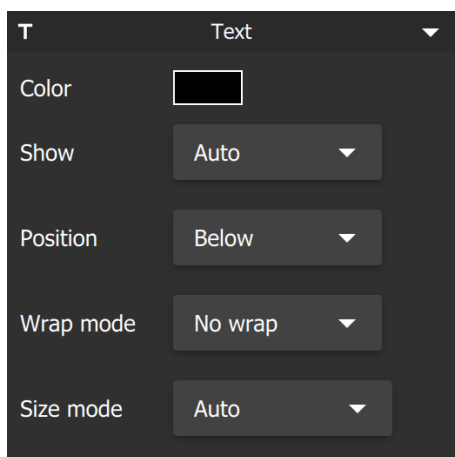
Click the **Basic** menu bar to open editing options.

- The default opacity is 100. To modify the transparency of the icon, **slide the switch**, use arrows, or enter digits.
- To **rotate** the camera icon in the direction of the device, **slide the switch**, use arrows, or enter digits.



- Click the **Icon** menu bar for more settings.
- Select the **blocks of colour** alongside Foreground and Background to choose new colours for the icons, and surrounding squares.
- Adjust the **size** of the icon by selecting options from the **drop-down menu**, or manually adjusting the width and height using the **arrows**.
- **Check Show background** to add a **rounded square** background around the icon.
- Adjust the **transparency** of the square using the **Opacity** slider.

7.1.3.3 Text



Click the **Text** menu bar to edit text settings.

- Click the **colour block** to change **text colour**.
- To edit Display settings, Position, Wrap mode, and Size mode, select from the drop-down menus.

7.1.3.4 Camera (Viewing Area)

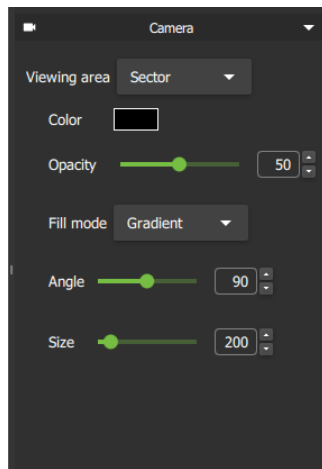
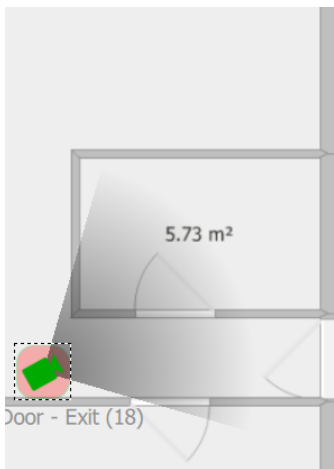


Click the **Camera** menu bar to edit the camera **Viewing area**. This enables a visual representation of the area covered by the camera's vision

→ Click the **drop-down menu** to open more options.

→ Select from **None, Sector, Manual, or Fisheye**.

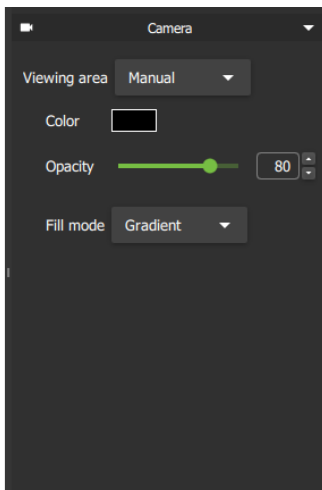
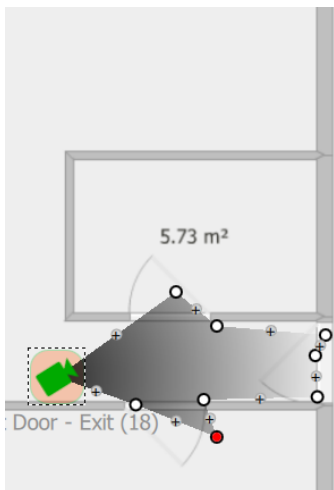
Sector



Select **Sector** from the drop-down list to depict the camera viewing area as shown alongside.

The **opacity, fill mode, angle, and size** of the field can be adjusted.

Manual

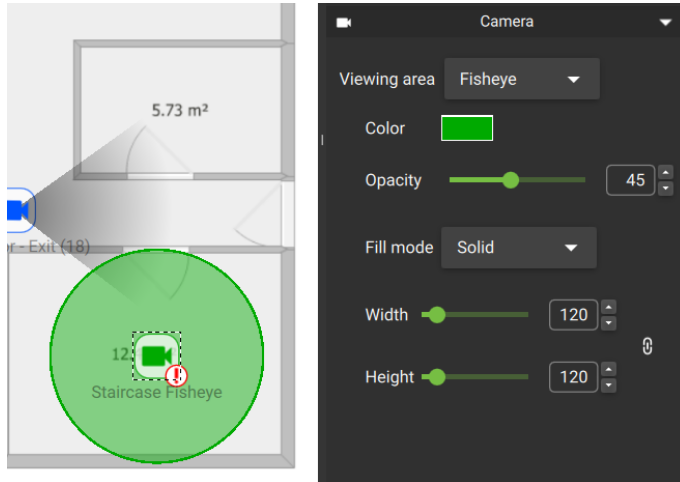


→ Select **Manual** from the drop-down list to adjust the viewing area on the map.

This allows the user to create **irregular shapes** for the camera view.

→ Click a **plus sign** on the map to add a new point. **Click and drag** a circle to move the point.

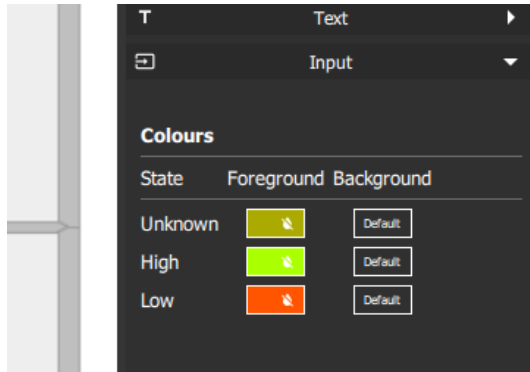
Fisheye



Select **Fisheye** from the drop-down list to depict the camera viewing area as shown alongside.

The **colour, opacity, fill mode, angle, width, and height** of the field can be adjusted.

7.1.3.5 Inputs



If an input is added to the map, an **Input menu** will appear on the right.

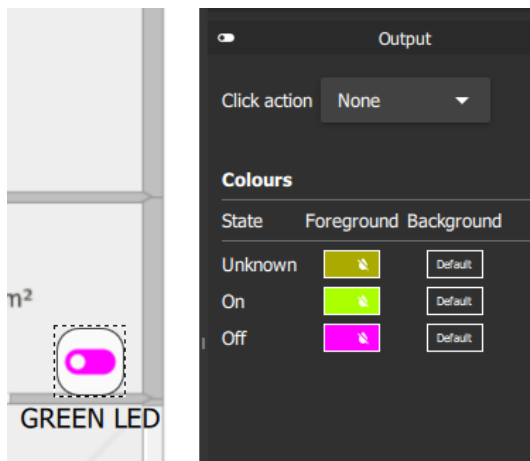
→ Click the **horizontal bar** (Input) to open.

The default foreground and background colour is black.

Click the colour box to change the colour of the icon to indicate **State**. Use colours to represent:

- State: **Unknown**
- State: **High**
- State: **Low**

7.1.3.6 Outputs



If an output is added to the map, an **Output menu** will appear on the right.

→ Click the **horizontal bar** (Output) to open.

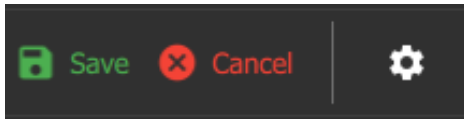
→ Open the drop-down menu to change the **click action**.

The default foreground and background colour is black.

→ Click the colour box to change the colour of the icon to indicate **State**. Use colours to represent:

- State: **Unknown**
- State: **On**
- State: **Off**

7.1.4 Saving or Renaming Maps



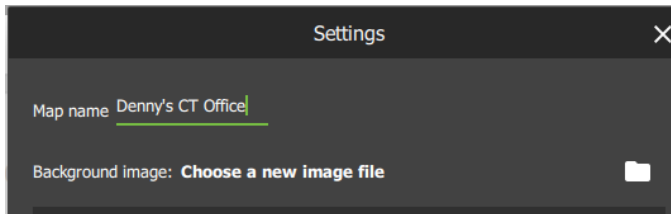
To **save** the new map, and to save any changes, click the **save icon**.

To change the **map name**, click the **settings icon**, edit the name and click OK.

7.1.5 Choose a New Background Image



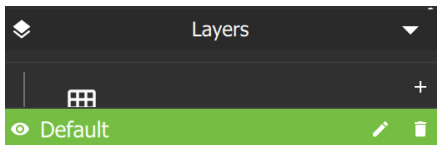
To change the background image of the map, click the **settings icon**.



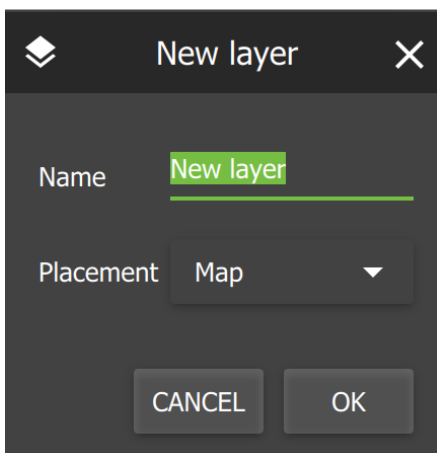
Click the **folder icon** and upload a new background image, for example, a photograph or diagram.

Click OK.

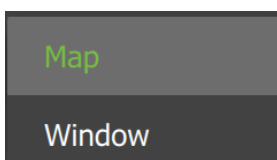
7.1.6 Add a New Layer



To add layers to a site, for example, a third-floor map, click the **plus sign icon** beneath the Layers menu on the right-hand side.



Give the new layer a **descriptive name**, for example: “South Coast Data Centre Basement Storage”.



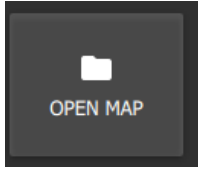
Choose placement from the drop-down menu.

Click OK.

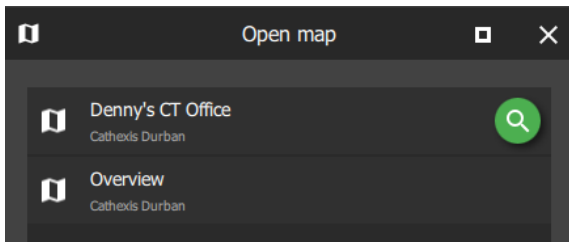
Create and edit icons using the editing tools, then save.

7.2 Using Maps

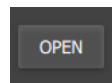
7.2.1 Open Maps



Click **OPEN MAP** from the Maps tab home page to begin using a map.

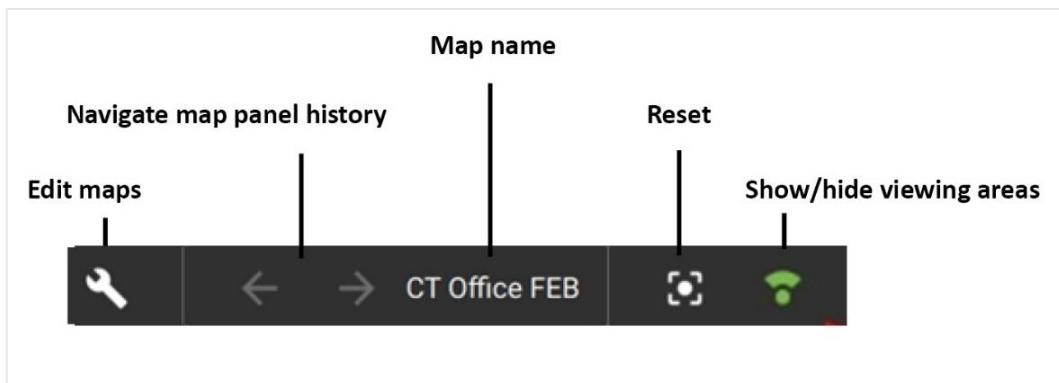


To open a Map, click the **file name** e.g. Denny's CT Office.



Then click the Open button.

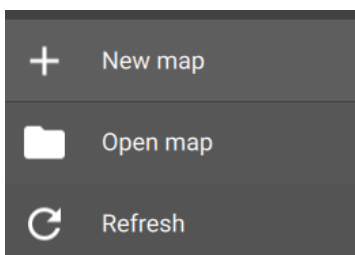
7.2.2 Maps Tab Navigation



When moving between map views, the map name next to the navigation arrows will change accordingly.



Click the **map settings menu** to see map settings options.










Click an option to select: add a new map, open a map, or refresh the current map.

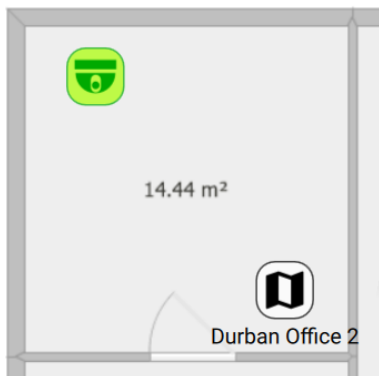
7.2.3 Using Icons on Maps

7.2.3.1 Map Icons Summary

The table below describes map icons which can perform actions.

ICON	DESCRIPTION	INSTRUCTION
	Camera	Double-click to view the camera.
	PTZ camera	Double-click to view the PTZ camera.
	Maps/levels	Double-click to redirect to the level or map.
	Input	Use colours to indicate state on the map.
	Output	Right-click to see properties and to control actions.
	Layout	This icon only performs an action in the Monitoring tab.
	Camera group	This icon only performs an action in the Monitoring tab.

7.2.3.2 Camera Icons



Double-click the camera icon to view footage from the camera.

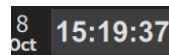


A preview will pop up.

Use adjacent camera overlays, PTZ control overlays and the timeline as normal.

Right-click to see the drop-down (context) **menu** with view and review features.

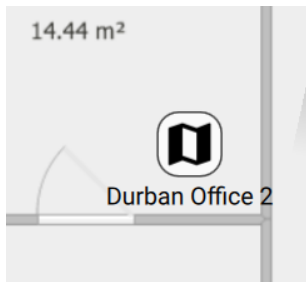
Scroll along the bar at the bottom of the display panel to move forward or backwards in time/adjust playback.



To adjust time manually, click the date and time and enter the point of playback.

See [5.9.1.14 Glossary of Camera Tools](#) for more information about the features in the right-click (context) menu.

7.2.3.3 Map Icons

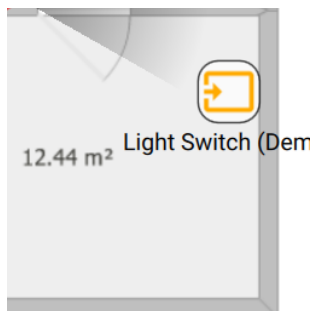


Double-click on map icons to view additional maps/levels.



Additional maps/levels will be displayed in the panel.

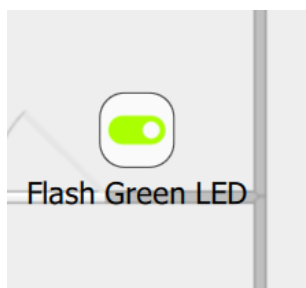
7.2.3.4 Input Icons



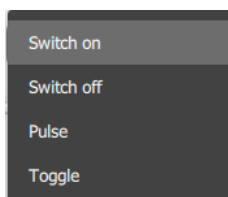
Use the map editing tools to set up **icon colour changes**. **View** colour changes from the map which represent:

- State – **Unknown**
- State – **High**
- State – **Low**

7.2.3.5 Output Icons

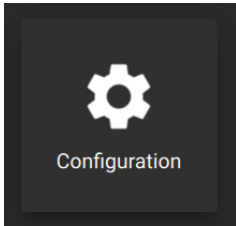


To control actions on an output, **right-click** the output icon.



Choose an action from the drop-down menu and click to select.

8. Configuration Tab

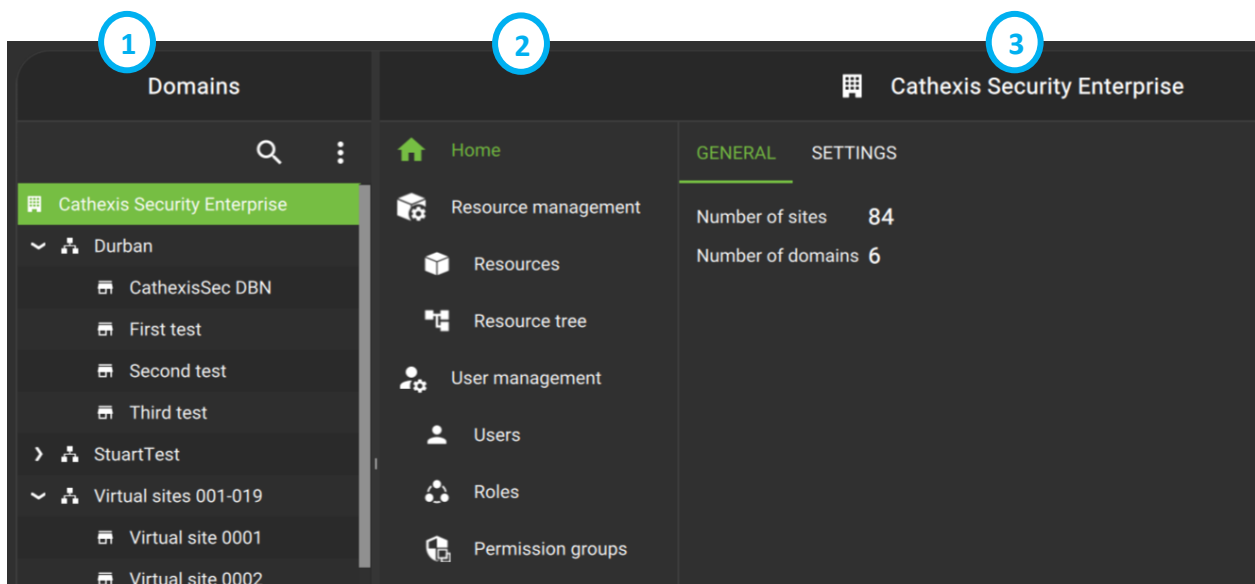


From the home menu, click the Configuration icon to open a new Configuration tab.

- The Configuration tab allows users to edit connection settings, organise resources, and to view and edit user roles (access levels) and permissions.
- In Carbon, access levels are renamable, and are called Roles.

8.1 Navigating the Configuration Tab

There are minor differences in the presentation of the Configuration Tab menu for site, MultiSite, or Enterprise connections.



1) Domain panel

2) Menu panel

3) Configuration panel

1	<p>In the domain panel, select the MultiSite or Enterprise installation, a domain, sub-domain, or site to be configured.</p> <p>Note: The domain panel will only be displayed when viewing MultiSite or Enterprise installations.</p>
2	<p>The menu panel comprises the Home Menu, Resource Management and User Management. After choosing an installation, domain or site in the domain panel (1), select the area to be configured (2).</p>
3	<p>In the configuration panel on the right, the operator can configure settings for the options selected in the domain panel and menu panel.</p>

8.1.1 Domain Panel Further Options (MultiSite and Enterprise)



Click on the vertical ellipses (menu) icons in the Domain panel to configure further options.

		Top menu:
		<ul style="list-style-type: none"> Refresh
		Enterprise menu:
		<ul style="list-style-type: none"> Add a new domain Add a new site View active site tokens
		MultiSite menu:
		<ul style="list-style-type: none"> Add a new site View active site tokens
		Domain menu:
		<ul style="list-style-type: none"> Add a new domain Add a new site View active site tokens Configure properties
		Site menu:
		<ul style="list-style-type: none"> Delete site

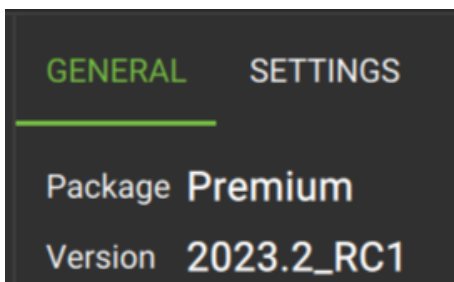
8.2 Home Menu

The Home menu options differ between [Site](#), [MultiSite](#) and [Enterprise](#) connections.

8.2.1 Home Menu: Site Connections



In the main panel on the right, select the General tab.



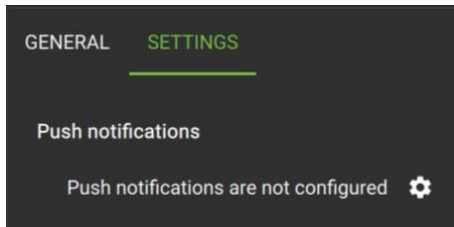
The General tab shows the following information:

- CathexisVision software package
- CathexisVision version

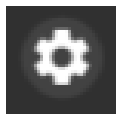
8.2.1.1 Settings: Push Notifications

It is possible to enable push notifications on the Carbon desktop app so that these notifications can be viewed on CathexisVision Mobile. For push notifications to work, the site communicates with a proxy. Each site needs to be registered.

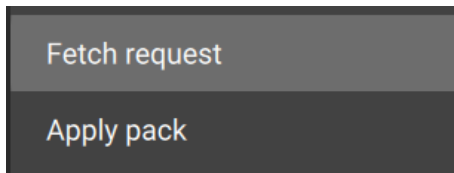
To enable push notifications, follow the steps below.



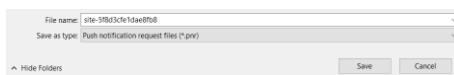
1. Click on the **Settings tab** in the Home menu.



2. Click the settings icon.

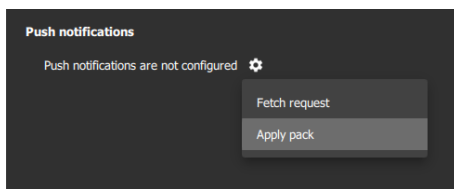


3. Select **Fetch request**.



4. Then, **Save** the file (for example, the computer's desktop).

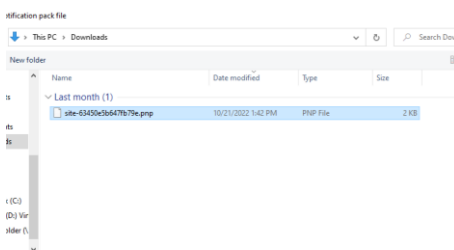
5. Contact Cathexis Support (support@cathexisvideo.com) to receive a pack file.



6. Return to the configuration panel in the Carbon Configuration tab.

7. Click the **settings icon**.

8. Select **"Apply pack"**.

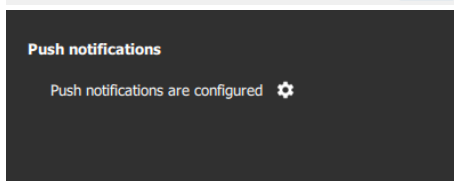


A browser will open displaying the directories.

9. **Locate** the recently downloaded **pack file**.

10. **Select** the file.

11. Click **Open**.



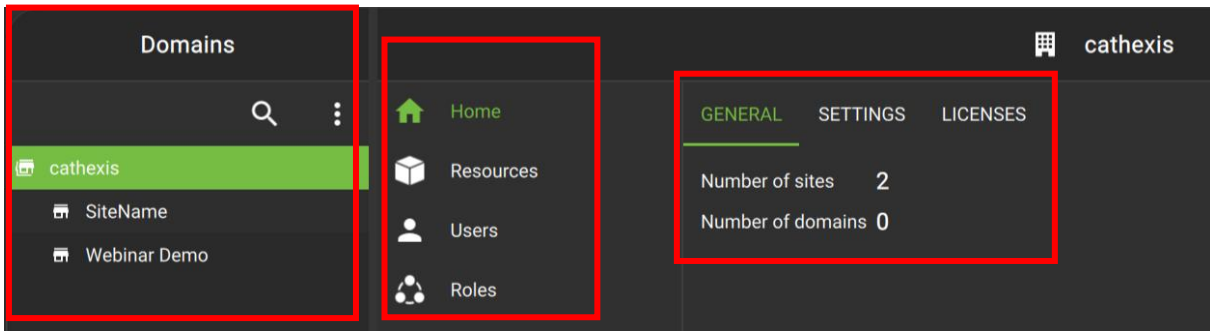
The Home panel will display confirmation that push notifications are configured.

For more information on using push notifications in CathexisVision Mobile, consult **CathexisVision Mobile App-note**.

8.2.2 Home Menu: MultiSite

The options presented when the Home menu is selected will differ, depending on which of the following is selected in the Domain panel:

- MultiSite
- A single site



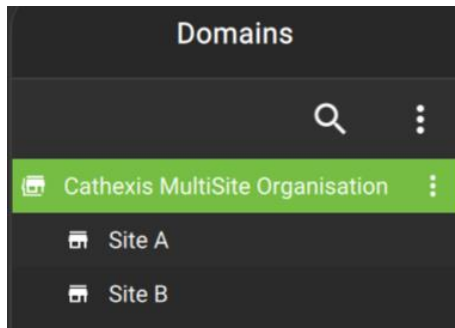
Domain panel

Menu panel

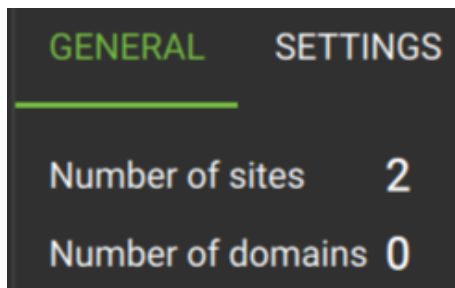
Configuration panel (Tabs)

8.2.2.1 MultiSite Home Menu: MultiSite Selected

General



When the MultiSite installation is selected in the Domains panel on the left, the General tab will display information about:



- Total number of sites registered with the MultiSite
- Total number of domains

Settings

There are no further options to configure under the Settings tab.

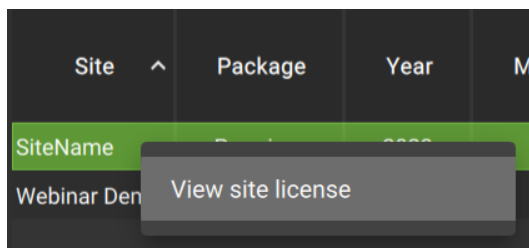
Licenses

Site	Package	Year	MultiSite	Installed cameras	Unlicensed site cameras	Unused site camera licenses	Unlicensed MultiSite cameras	Unused MultiSite camera licenses	Maps
SiteName	Premium	2023	✓	4	0	15	0	Unlimited	✓
Webinar Demo	Premium	2023	✓	14	0	6	0	Unlimited	✓

When the MultiSite installation is selected in the Domains panel on the left, the Licenses tab will display information about the licensing on the sites that are registered to the MultiSite:

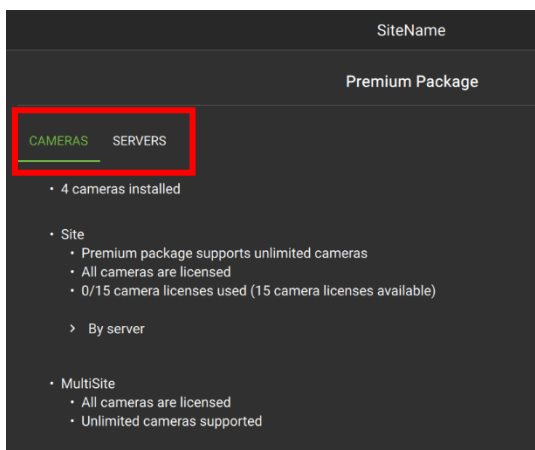
- Site name
- CathexisVision package
- CathexisVision release year
- MultiSite registration status
- Number of cameras installed
- Number of unlicensed site cameras
- Number of unused site camera licenses
- Number of unlicensed MultiSite cameras
- Number of unused MultiSite camera licenses
- Map support status

View Site License



→ **Right-click a site name** and click “View site license” to view information about the site’s licensing.

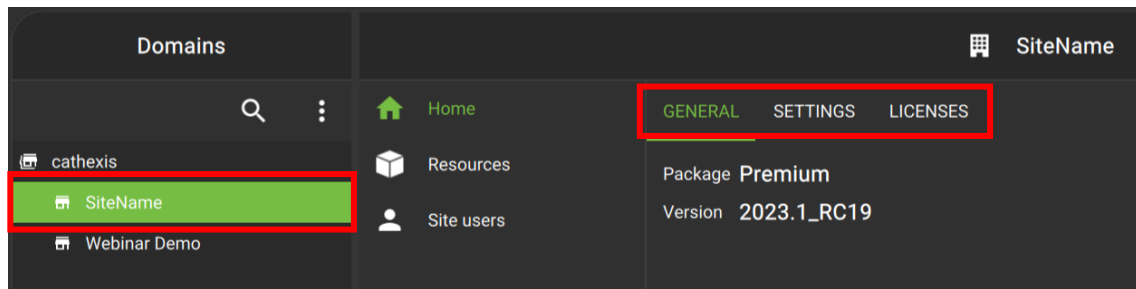
A new window will open.



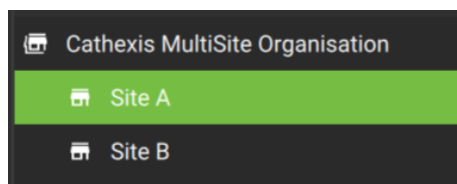
The new window has two tabs, which show summaries of licensing information about the **cameras** and **servers**.

8.2.2.2 MultiSite Home Menu: Site Selected

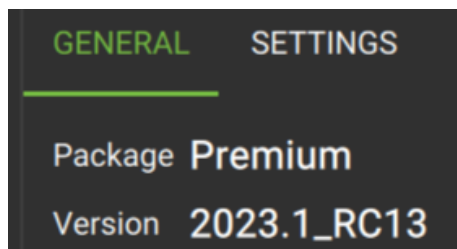
When a site is selected in the Domains panel on the left, the right panel shows three tab options: General, Settings and Licenses.



General

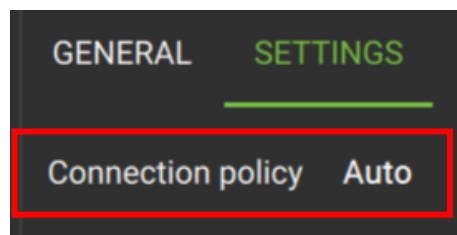


When a site is selected in the Domains panel on the left, General will display information about:



- The site's CathexisVision package
- The site's CathexisVision version

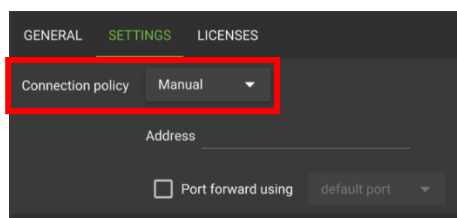
Settings



Under Settings, the user may edit the site's connection policy.

→ Click anywhere in the field.

The options for editing will appear.



Connection policy: Choose between Manual and Auto.

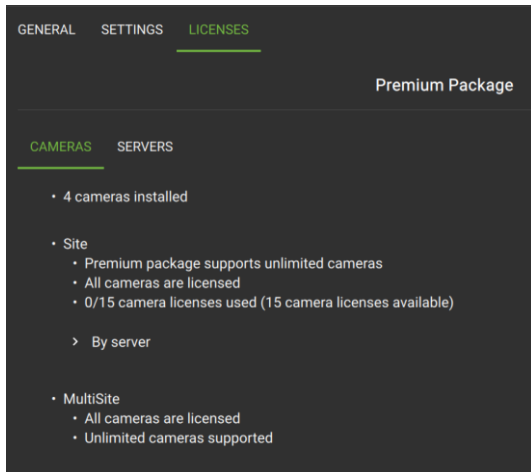


For instructions on completing this step of configuring a site's connection to MultiSite, see [3.3.2.5 Complete Configuration of Site Connection to MultiSite in Carbon](#).

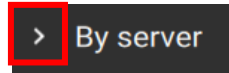


Click the **save icon** to save changes.

Licenses



Select the Licenses tab in the configuration panel to view summaries of licensing information about the site's **cameras** and **servers**.

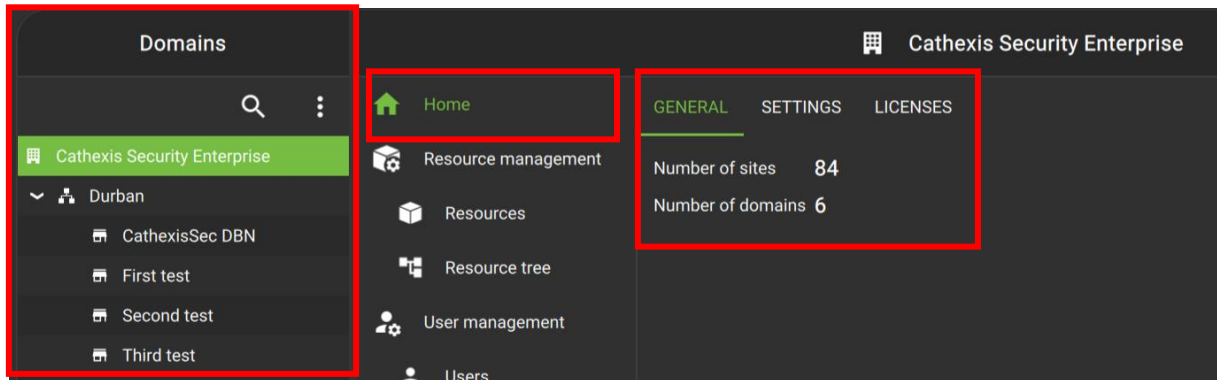


Click the arrow to reveal information about cameras grouped by servers.

8.2.3 Home Menu: Enterprise

The options presented in the Home menu will differ, depending on which of the following is selected in the Domain panel:

- [Enterprise](#)
- [A Domain](#)
- [A site](#)



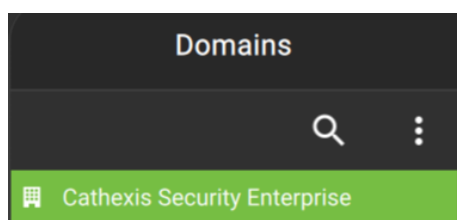
Domain panel

Menu panel

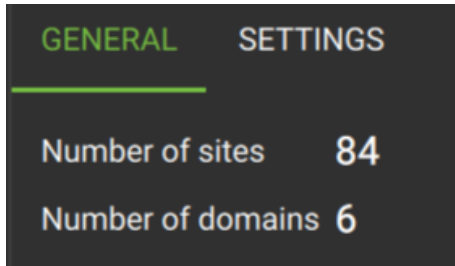
Configuration panel (Tabs)

8.2.3.1 Enterprise Home Menu: Enterprise Selected

General

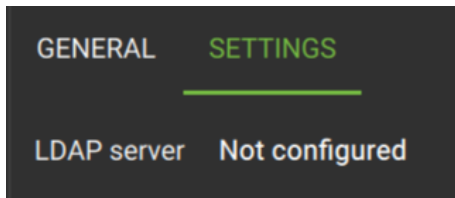


When the Enterprise installation is selected in the Domains panel on the left, the General tab in the Configuration panel will display information about:



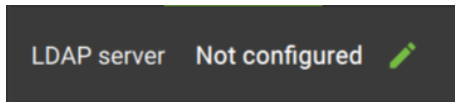
- Total number of sites registered with the Enterprise
- Total number of domains

Settings



When the Enterprise installation is selected in the Domains panel on the left, the Settings tab in the Configuration panel will display information about LDAP server settings.

LDAP, or Lightweight Directory Access Protocol makes it possible for applications to query user information rapidly.



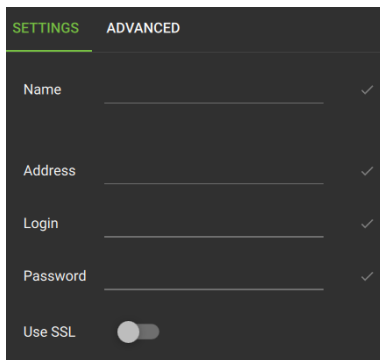
→ Click anywhere in the field (in the right panel) to open the LDAP server settings window.



→ Click the checkbox to Enable.



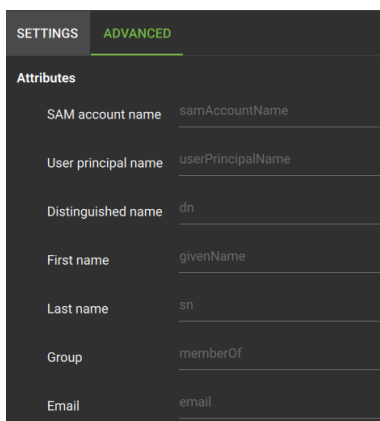
LDAP Server Settings Tab



→ Enter the LDAP server details in the fields: Name, Address, Username and Password.

→ Toggle the switch to use SSL.

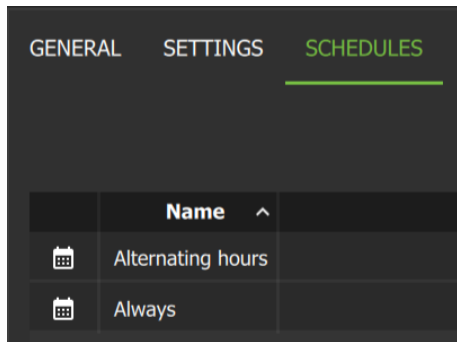
LDAP Server Advanced Tab



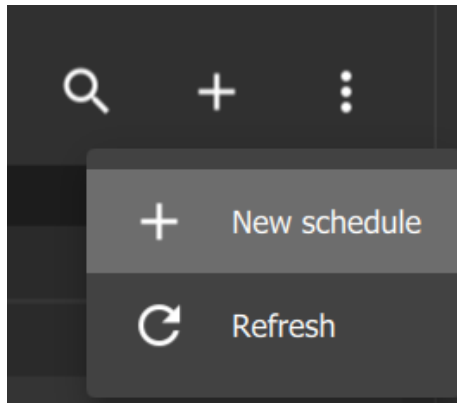
→ Click Advanced tab to open more settings.

→ Enter the text into the fields.

Schedules

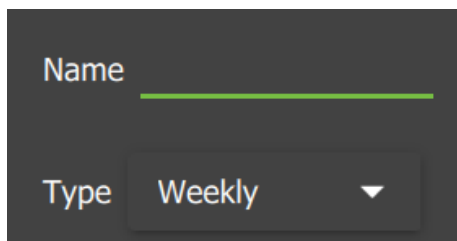
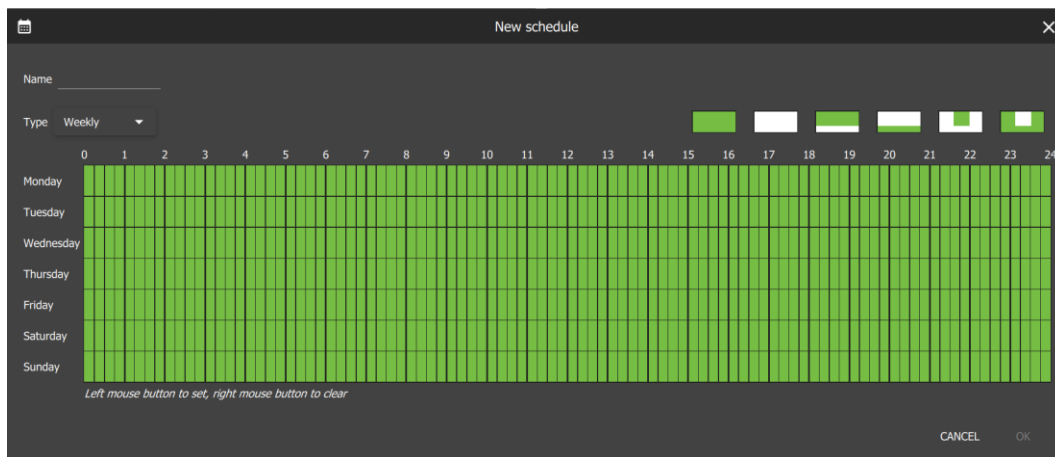


When the Enterprise installation is selected in the Domains panel on the left, the Schedules tab in the Configuration panel will display information about schedules.



→ To create a new schedule, either click the **plus icon** or click the **kebab icon** and select **New schedule**.

The New schedule window will open.

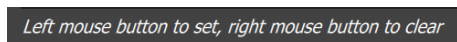


→ Enter a name for the new schedule.

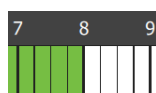
→ Select the type of schedule.



There are several schedule templates to choose from. The schedule can also be edited manually.



→ Click with the left mouse button to set a segment in the schedule, and right-click a segment to clear it. (Green = set, white = cleared.)



Each segment represents 15 minutes.



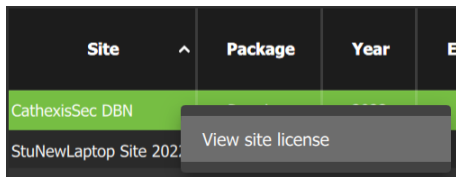
- Click Cancel to cancel the creation of a new schedule.
- Click OK to save the new schedule.

Licenses

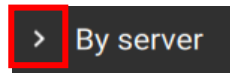
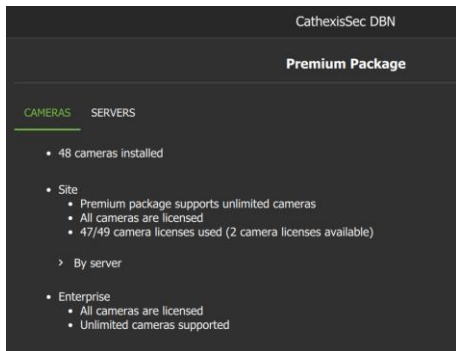
Site	Package	Year	Enterprise	Installed cameras	Unlicensed site cameras	Unused site camera licenses	Unlicensed Enterprise cameras
CathexisSec DBN	Premium	2023	✔	48	0	2	0
StuNewLaptop Site 2022	Premium	2023	✔	5	0	1	0

When the Enterprise installation is selected in the Domains panel on the left, the Licenses tab in the Configuration panel will display information about the licensing on the sites connected to the Enterprise.

- Site name
- CathexisVision package
- CathexisVision release year
- Enterprise registration status
- Number of cameras installed
- Number of unlicensed site cameras
- Number of unused site camera licenses
- Number of unlicensed Enterprise cameras
- Number of unused Enterprise camera licenses
- Map support status
- Alarms support status
- Video Wall support status



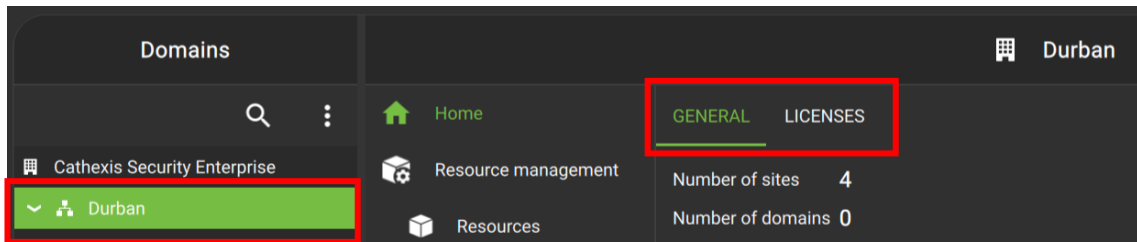
- Right-click the site row and select View site license to view further licensing information about the site's cameras and servers.



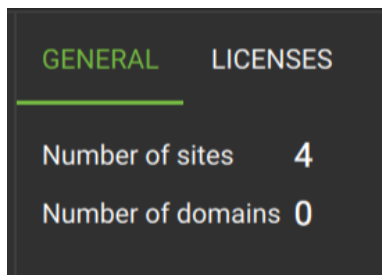
Click the arrow to reveal information about cameras grouped by servers.

8.2.3.2 Enterprise Home Menu: Domain Selected

When a Domain is selected in the Domains panel on the left, the configuration panel on the right will display information under two tabs: General and Licenses.



General



When the domain is selected in the Domains panel on the left, the General tab in the configuration panel will display information about: about the number of sites in the domain, and the number of sub-domains (zero, in this example).

Licenses

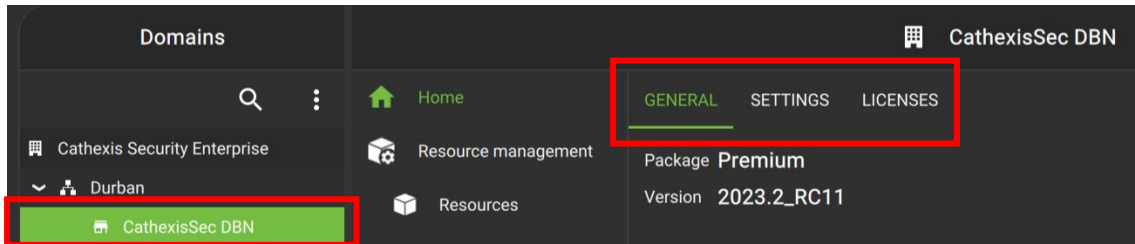
Site	Package	Year	Enterprise	Installed cameras	Unlicensed site cameras	Unused site camera licenses	Unlicensed Enterprise cameras	Unused Enterprise camera licenses	Maps
CathexisSec DBN	Premium	2023	✓	47	0	3	0	Unlimited	✓

When the domain is selected in the Domains panel on the left, the Licenses tab in the configuration panel will display information about the licensing on the sites in the domain.

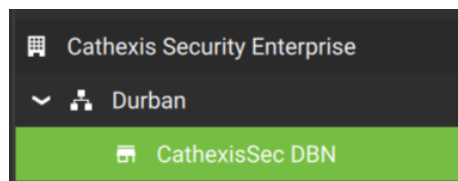
- Site name
- CathexisVision package
- CathexisVision release year
- Enterprise registration status
- Number of cameras installed
- Number of unlicensed site cameras
- Number of unused site camera licenses
- Number of unlicensed Enterprise cameras
- Number of unused Enterprise camera licenses
- Map support status
- Alarms support status
- Video Wall support status

8.2.3.3 Enterprise Home Menu: Site Selected

When a site is selected in the Domains panel on the left, the right panel will show three tab options: General, Settings and Licenses.

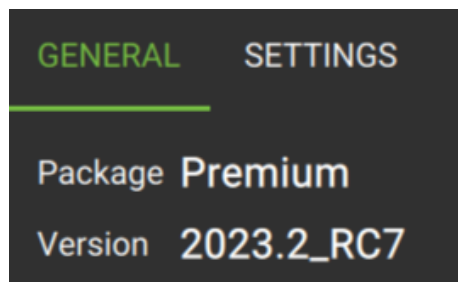


General

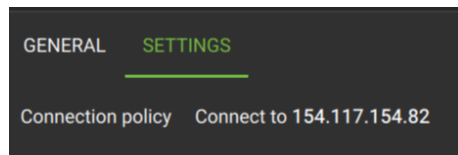


When a site is selected in the Domains panel on the left, General will display information about:

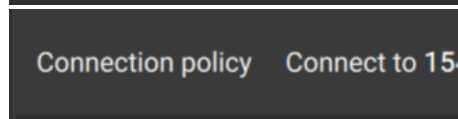
- CathexisVision package
- CathexisVision version



Settings

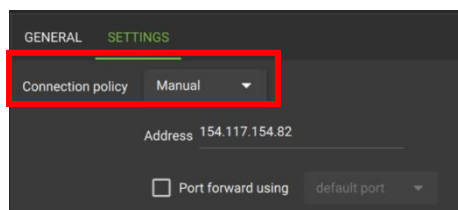


Under Settings, the user may edit the site's connection policy.




→ Click anywhere in the field.

The options for editing will appear.



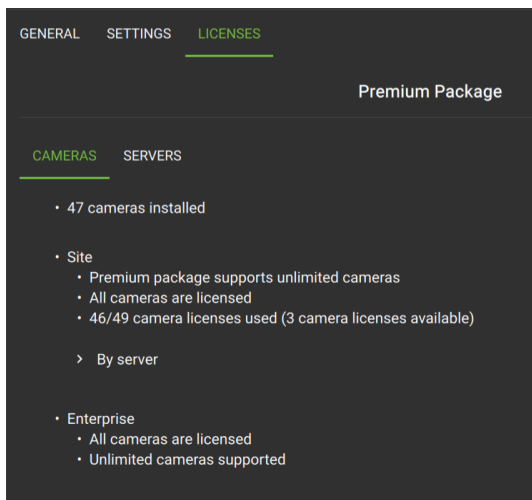
Connection policy: Choose between Manual and Auto.

 For instructions on completing this step of configuring a site's connection to Enterprise, see [3.4.2.5 Complete Configuration of Site Connection in Carbon](#).

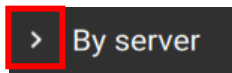


Click the **save icon** to save changes.

Licenses



Select the Licenses tab in the configuration panel to view summaries of licensing information about the site’s **cameras** and **servers**.



Click the arrow to reveal information about cameras grouped by servers.

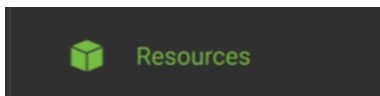
8.3 Resource Management

The Resource Management area allows the operator to organise cameras into resource groups.

- Groups will be added to the folder tree.
- Groups can be opened in the Monitoring tab to view cameras easily.

The Resource management menu also allows operators to switch to manual configuration of the folder tree/resources.

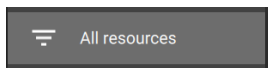
8.3.1 Resources



- Camera groups can be created and edited here.
- The list can be searched and filtered according to resource type.
- Maps can be deleted.

Resource icons

All resources will appear in a list on the main panel.



The type of resource is indicated by an **icon** next to the resource name.

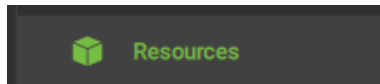
	VMS events		Maps
	VMS event groups		Meta databases
	VMS sub-events		Outputs
	Cameras		Presence sensors
	Camera groups		Servers
	Feature databases		Site monitors
	Inputs		Video databases
	Layouts		Motion sensors

Navigation



	Search icon	Search resources.		Plus icon	Add New camera group or New VMS event group.
	Filter icon	Select Resources to view.		Menu icon	New camera group / New VMS event group / Refresh

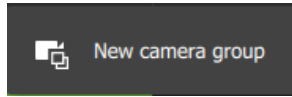
8.3.1.1 Add Camera Group to Resources



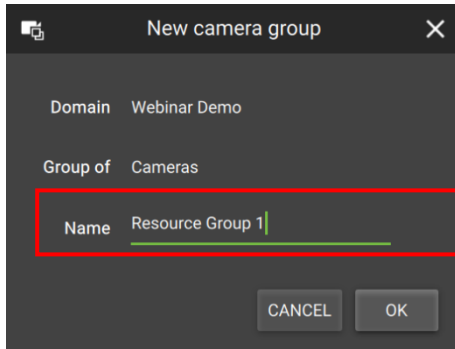
→ To add a camera group to resources, select **Resources** in the left panel.



→ Click the **plus icon** or the **menu icon** at the top of the screen to add a camera group.

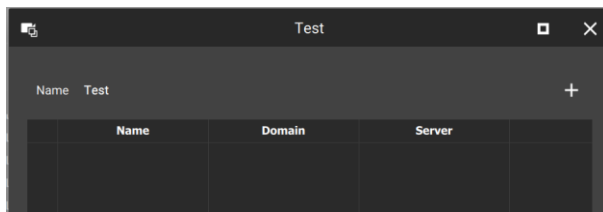


→ **Select** New camera group.



→ Give the group a descriptive **name**.

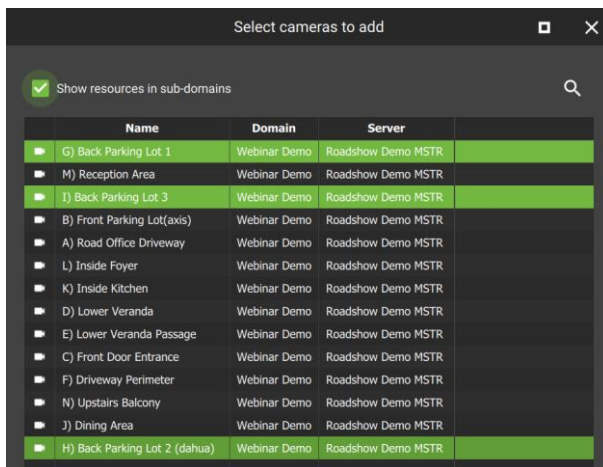
→ Click **OK**.



A new window will open.



Click the **plus icon** to **add a camera** to the new camera group.



Available cameras will show on a list.



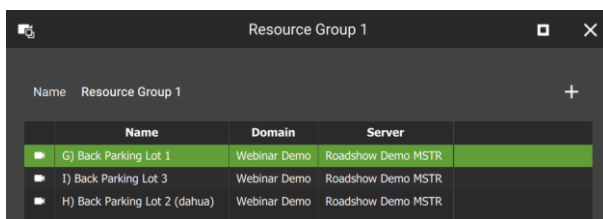
Click the **search icon** to find a camera by **name**.

→ **Click the cameras** to select. These will be added to the new camera group.

Ctrl+click: select multiple cameras independently.

Shift+click: select multiple cameras sequentially.

→ Then click **OK**.



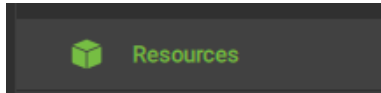
The cameras that have been added will display in a list.



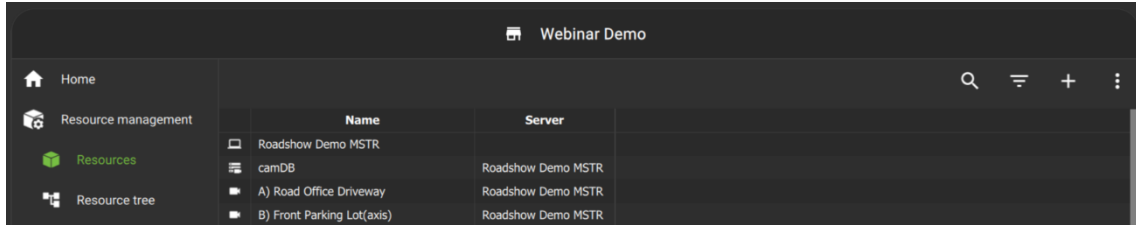
Click **cancel** to exit and **return** to Resource Management section.

Changes will save on exit.

8.3.1.2 Edit or Remove Camera Group

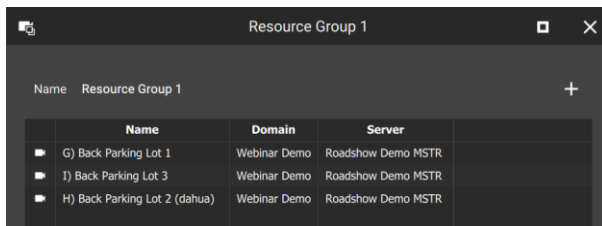


→ Select **Resources** in the left panel. All resources, including camera groups, will appear in a list on the main panel (pictured below).



→ Click a **resource group** from the list in the main panel to select it. Resource groups are indicated by the **group icon**.

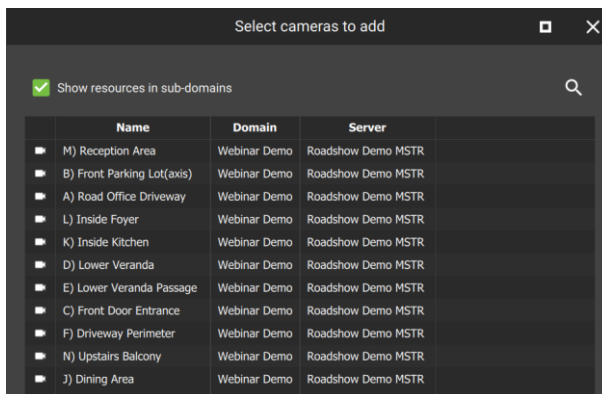
→ Double-click the resource group to open a new dialogue box.



A new dialogue box will appear showing the cameras in the group.



Click the **plus icon** from this window to add a camera to the group.



Another dialogue box will open.



Click the **search icon** to find a camera by **name**.

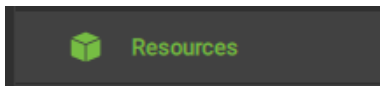
→ Click a **camera** to select, or use Shift+click / Ctrl+click to select multiple cameras.

→ Click **OK**.



→ **Right-click** an item for the **Remove** option, and click to select.

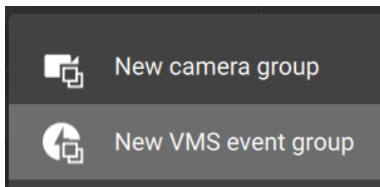
8.3.1.3 Create a New VMS Event Group



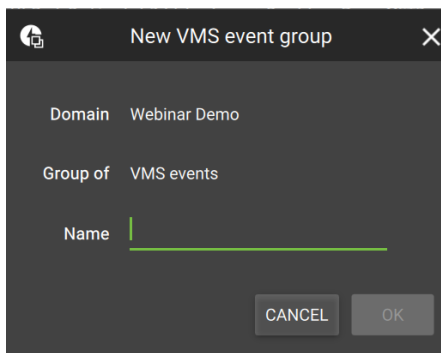
→ Select **Resources** in the left panel.



→ Click the **plus icon** or the menu icon at the top of the screen to add a camera group.

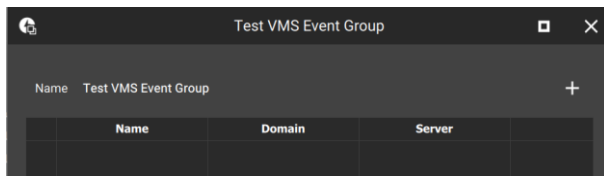


→ Select **New VMS event group**.

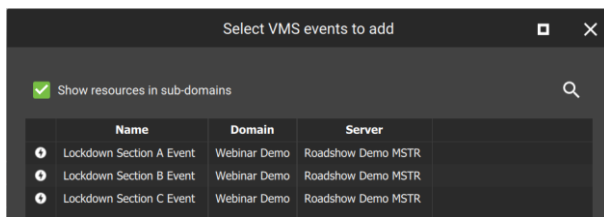


→ Enter a name for the VMS event group into the field.

→ Click **OK**.



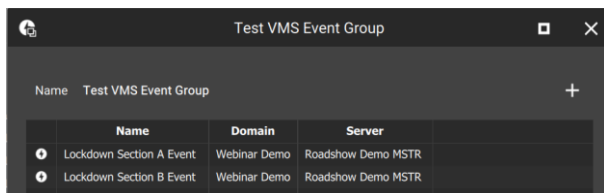
→ Click the plus icon to add events.



→ Use **Ctrl+click** or **Shift+click** to **select items** from the list.

Use the search tool to narrow down results if necessary.

→ Click **OK**.



→ The newly-added events will reflect in the panel.

8.3.1.4 Search and Filter Resource Groups

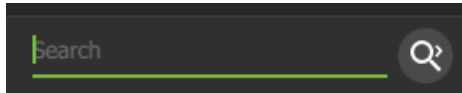


Use the **search** and **filter icons** at the top of the screen to search for a resource or filter results.

Search



To **search by term**, click the **search icon**.

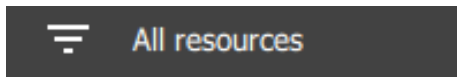


Enter a term into the field that opens.

Filter

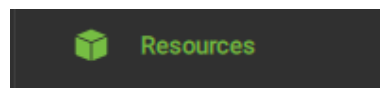


To filter results, click the **filter icon**.

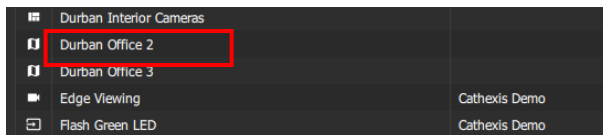


Choose from the **drop-down menu**.

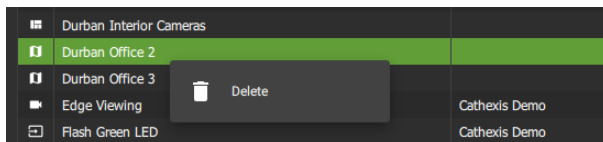
8.3.1.5 Delete a Map



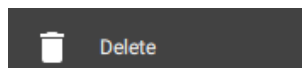
→ **Click Resources.**



→ Find the map in the list.



→ **Right-click** the map on the list. This will bring up the option to Delete.

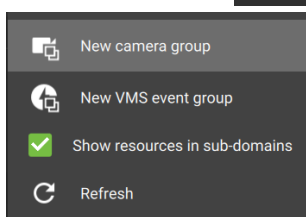


→ **Click Delete.**

8.3.1.6 Show Resources in Sub-Domains (MultiSite and Enterprise)



→ Click the menu icon.

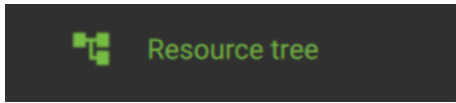


→ Select **Show resources in sub-domains**.

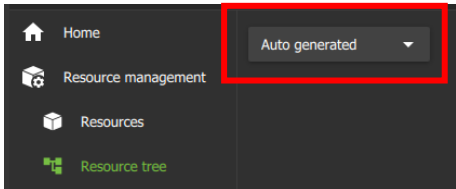
The resources of sub-domains will now be shown in the panel on the right.

8.3.2 Resource Tree: Auto or Manual Configuration (Sites and Enterprise)

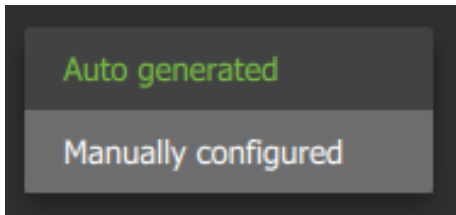
Users can change the resource tree settings to manual configuration of the folder layout.



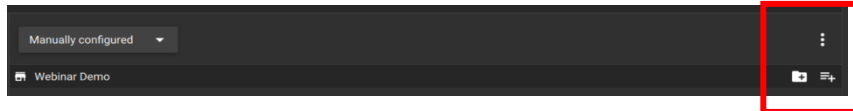
→ Navigate to the Resource tree **menu**.



→ Click the **drop-down menu** in the panel on the right.



→ Click **Manually configured** to switch from default (Auto generated) to manual.



More configuration options will appear.



Advanced settings ([8.3.2.1](#))



Add folder ([8.3.2.2](#))



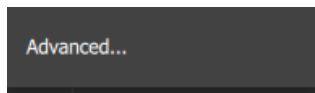
Add resource ([8.3.2.3](#))

8.3.2.1 Manual Configuration: Advanced Resource Tree Settings

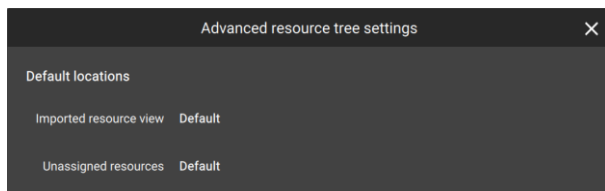
Use the Advanced settings to change default locations of the folder.



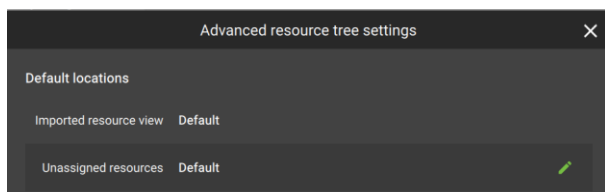
→ Click the menu icon.



→ Select **Advanced**.



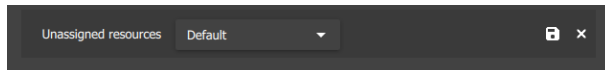
A dialogue box will appear.



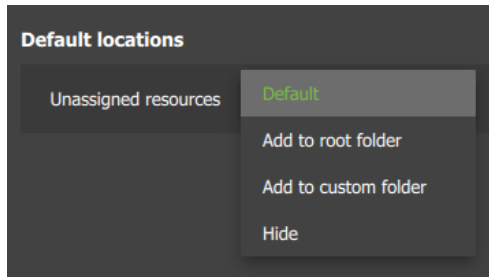
→ Hover over the **Unassigned resources** or **Imported resource view** field to activate.



→ Click the edit icon to select.



→ Click **Default** to open the **drop-down** menu.



→ **Select an option** from the drop-down menu.



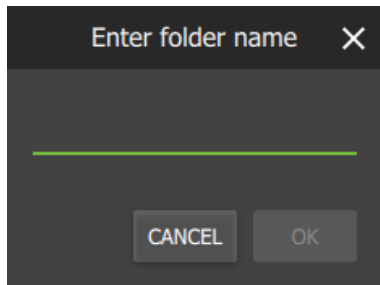
Click **save** when complete.

Or, click the cancel icon to exit without changes.

8.3.2.2 Manual Configuration: Add Folders



Click the icon to add a folder.



A new dialogue box will open.

→ Enter a descriptive **folder name**.

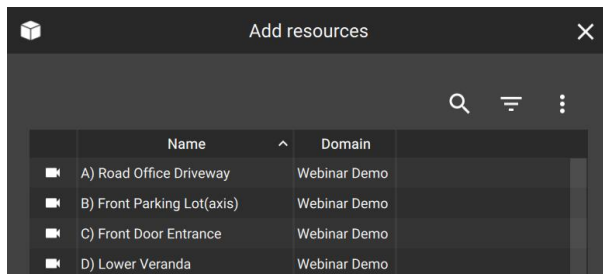
→ Click OK.

8.3.2.3 Manual Configuration: Add Resources



Click the **icon** to add resources.

The **Add resources** dialogue box will appear.



Click the search icon to use **search terms**.



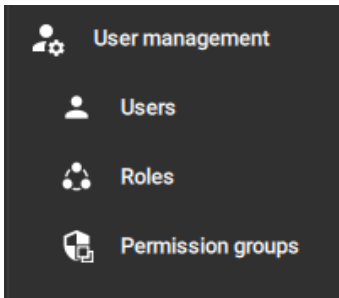
Click to **filter icon** to **sort** results:

- All
- Cameras
- Layouts
- Resource groups
- Maps.



Click the menu icon for the option to enable or disable the **Hide resources** checkbox.

8.4 User Management (Users)



Access rights can be added or changed for users in several ways in the User Management section.

Note:

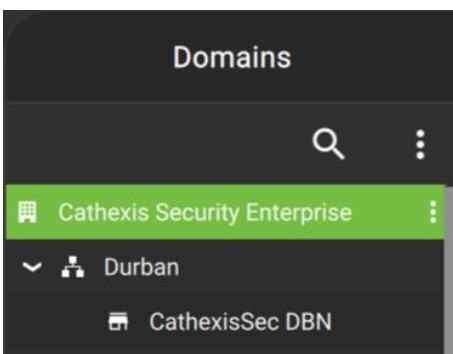
- The presentation of these options may differ among Site connections, MultiSite and Enterprise.
- Options presented will also depend on the user’s access rights.

Users	<p>The Users section allows resources to be added to individual users.</p> <p>The Users section also allows permissions for individual users to be managed.</p>
Roles	<p>Alternatively, access can be managed by allocating Roles to users.</p> <p>Roles are renamable and replace Levels (in CathexisVision), so that settings can be shared.</p>
Permission groups	<p>Permission groups are groups of like resources which can be added to a User or Role. This means that permissions for multiple similar resources can be edited at once.</p> <p>Permissions for the permission group must be edited in the Users or Roles sections.</p>

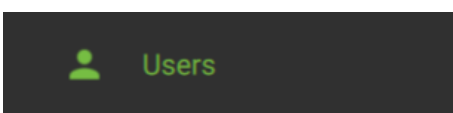


Note: New users for Site connections must be added in CathexisVision. To do so, navigate to **Site/Open tab/Setup** and select the Users icon. Consult the *CathexisVision Setup Manual* for more information.

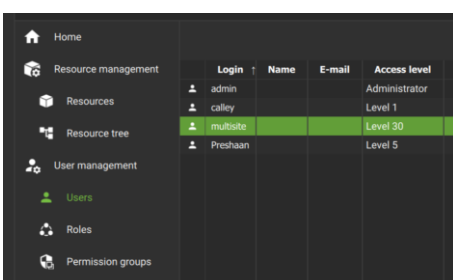
1. Navigate to Users



In the Domains panel: Select the installation, domain or site.



In the Menu panel: Click **Users**.



In the Configuration panel: The list of users will be displayed in the panel on the right.

2. Then, open User properties to:

SETTINGS
SITE ROLES
PERMISSIONS
INHERITED ROLES

[Change User Details \(8.4.2\)](#)
 [Edit Site Roles \(8.4.3\)](#)
 [Manage User Permissions \(8.4.4\)](#)
 [Manage Inherited Roles \(8.4.5\)](#)

Note: The Site Roles option will only appear in MultiSite connections.

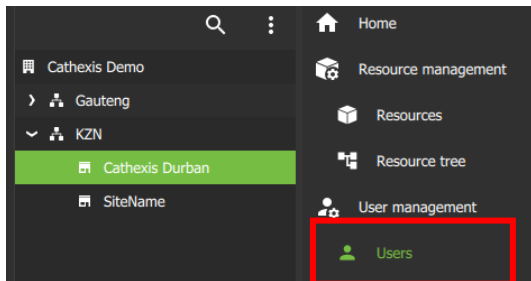
See instructions below.

8.4.1 Add, Delete or Disable a User (MultiSite and Enterprise Only)

It is possible to:

- [Add a new user](#) to a domain, a sub-domain, a MultiSite, or an Enterprise.
- [Disable or delete a user](#) from a MultiSite or Enterprise.

8.4.1.1 Add a New User



- Choose a domain / MultiSite / Enterprise.
- Click **Users** in the middle panel menu.



- From the Configuration panel, click the plus icon to add a new user.

A new window will open.

New user [Close]

Domain: Cathexis MultiSite Organisation

Login: ✓

Email: Optional ✓

Name: First name Last name ✓

Password: ✓

Confirm: ✓

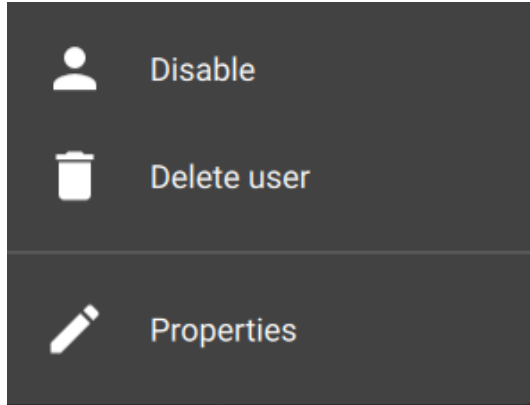
- Enter the credentials for the new user.
- Click OK.

8.4.1.2 Disable or Delete a User

	Login ↑	Name	E-mail
	admin	Cathexis Admin	

→ Right-click on the user name.

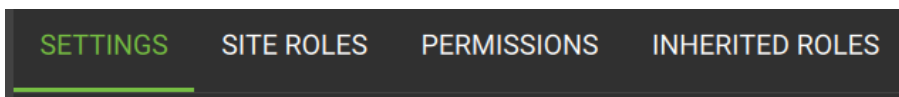
A list of options will appear.



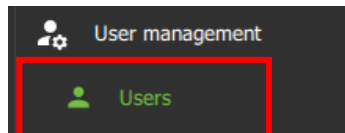
Disable: Click to disable the selected user.

Delete user: Click to delete the selected user.

8.4.2 Change User Details: Settings Tab



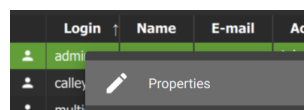
The name and surname of an existing individual user can be changed from the settings tab in the user management menu.



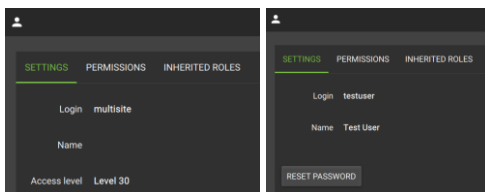
→ Click **Users** to view users in a list.

	Login ↑	Name	E-mail	Access level
	adg			Administrator
	admin			Administrator
	apple			Level 4
	Audreya			Level 6
	bheko			Administrator
	Bob			Level 1

→ Double-click to **select a user** from the list.

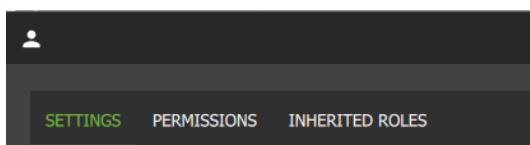


Alternatively, right-click the user name and select **Properties**.

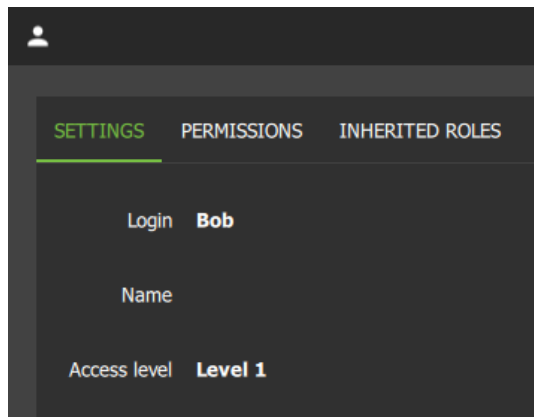


A user settings dialogue box will open.

Note: The options displayed here will differ, depending on whether the connection is to a Site, MultiSite or Enterprise.



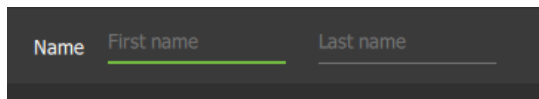
→ To change the name and password, click the **SETTINGS** tab.



→ **Hover** over the Name field to expose the Edit icon.



→ Click the **icon** to select.



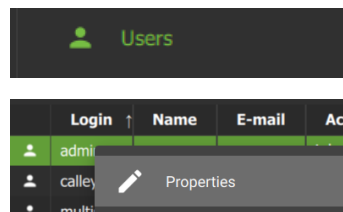
→ Type a **name** and **surname**.



→ Select the **save** icon.

8.4.3 Site Roles (MultiSite Only)

The Site Roles for MultiSite users can be edited.

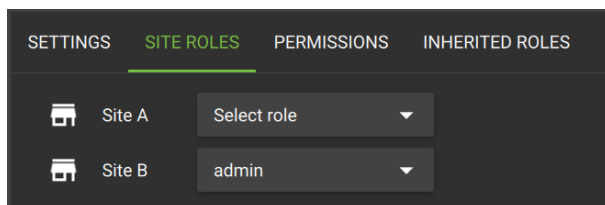


→ Click on Users in the Menu panel.

→ Double-click to select a user from the list.

→ Alternatively, right-click the user name and select Properties.

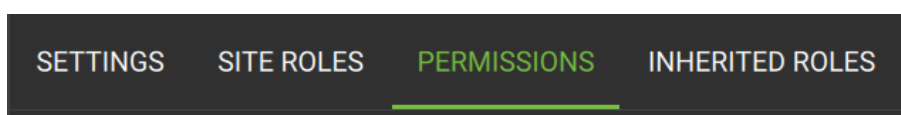
The user settings dialogue box will open.



→ Click on SITE ROLES.

→ Edit the roles assigned to the user according to each site registered with the MultiSite.

8.4.4 Manage User Permissions

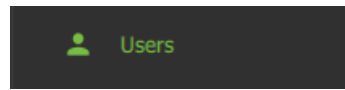


For a user to access resources (such as cameras, maps, inputs, outputs and databases), resources can be added to a user profile. Thereafter, permissions should be managed using the checkboxes.

Note: Alternatively, a user may gain access as a result of inheriting a Role, which grants access to a suite of functions associated with the role.

8.4.4.1 Manage Permissions: Add a Resource to a User

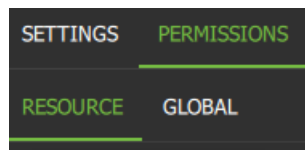
1. First, select the **resource type** to be added to a user.



→ Click **Users** on the folder tree.

	Login	Name	E-mail	Access level
	adg			Administrator
	admin			Administrator
	apple			Level 4

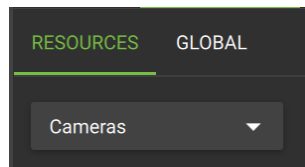
→ **Select the user** from the list in the panel on the right-hand side by double-clicking.



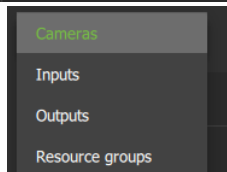
A new dialogue box will open.

→ Click the **PERMISSIONS** tab.

→ Then, click the **RESOURCE** tab underneath.

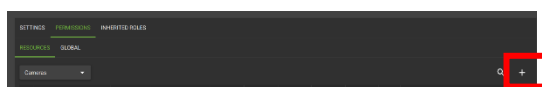


→ From the Resource tab, click the **drop-down menu**. (The drop-down menu usually shows “Cameras” and sits beneath the Resource tab.)



→ Choose the **type of resource** from the drop-down menu and click to select.

2. Then, add the resource.



→ From the PERMISSIONS view, click the **plus icon** to add a resource to the user.



Select cameras to add

Show cameras in sub-domains

	Name	Domain	Server
	All Durban cameras	Cathexis Durban	Cathexis Demo
	Back Door Entrance IMPRO (1)	Cathexis Durban	Cathexis Demo
	Back Door Exit IMPRO (2)	Cathexis Durban	Cathexis Demo
	Back Parking - Dahua (4)	Cathexis Durban	Cathexis Demo
	Back Parking - Vivotek (3)	Cathexis Durban	Cathexis Demo
	Canoe - Dynamic Background (6)	Cathexis Durban	Cathexis Demo

→ **Click the items** (e.g. cameras) to select and add.

Multiple resources may be selected using Shift+click /Ctrl+click.

A permission group consisting of multiple items can also be added here if it has been created.

→ Click **OK**.

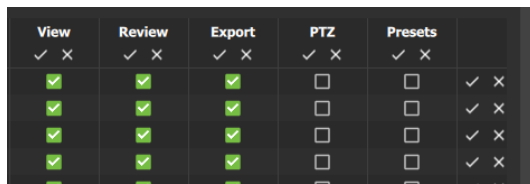
Once resources have been added, manage permissions/ access from the **PERMISSIONS** tab by using the **checkboxes**.

8.4.4.2 Manage Permissions: Modify Permissions for a User

Permissions for various functions can be given to or removed from individual users. Permissions for resources already added to a user’s profile can be managed by using checkboxes.

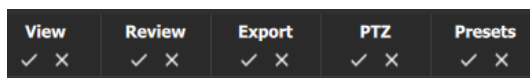
The following functions can be managed from the **PERMISSIONS** tab using the checkboxes:

Function	Description - The user has permission to:
View	View the selected resource. If it is a camera, permission is given to view the camera in live mode.
Review	Review and search recorded footage from the camera.
Export	Export segments of video footage to another location, either from the archive builder or from the video database.
PTZ	Operate the PTZ control using the overlay in the display or the PTZ menu.
Presets	Create or modify a preset on a PTZ camera.
Control	Control an output on a map.
Edit	Edit maps.
Manage views	Change and customise views in a metadatabase.
Manage reports	Create metadatabase reports.

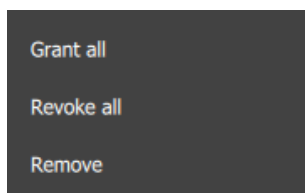


Permission options differ for each resource.

→ **Click or unclick** the **checkboxes** to add or remove permissions.



→ Click the tick or cross buttons along the top to check or uncheck **all items** in a column.

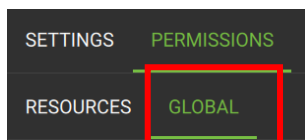


→ **Right-click** an item/resource for options to add or remove all permissions, or to delete the resource.

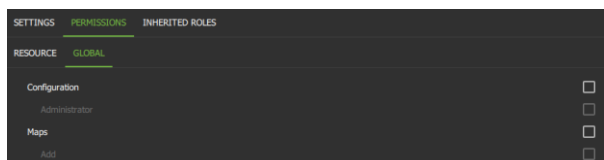
Note: Multiple users can be selected.

8.4.4.3 Manage Permissions: Global Tab

Global settings define user permissions for actions unrelated to individual resources, such as configuration.



→ Click the **GLOBAL** tab to manage global settings.



→ **Check or uncheck** the boxes to modify global settings for a user.

8.4.4.4 View Permissions for a User

For some users, a summary of permissions/access can be viewed.

	Login ↑	Name	E-mail	Access level
	adg			Administrator
	admin			Administrator
	apple			Level 4
	Audreya			Level 6
	bheko			Administrator
	Bob			Level 1

→ Double-click the user name to open the properties.

SETTINGS PERMISSIONS INHERITED ROLES

Login **Bob**

Name

Access level **Level 1**

→ In the **SETTINGS** tab, double-click the field next to **Access level** e.g. Level 1.

Access level

Cameras

	Name	Domain	Server	View	Review
	Highway - Virtual	Cathexis Durban	Cathexis Demo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Back Parking - Dahua (4)	Cathexis Durban	Cathexis Demo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Front Door - Exit (18)	Cathexis Durban	Cathexis Demo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

A view-only screen will open, showing the user's access permissions.

To edit permissions, use the PERMISSIONS tab and follow the steps in [8.4.4.2 Modify Permissions for a User](#).

8.4.4.5 Manage Permissions: Alarm Tab (MultiSite and Enterprise)

SETTINGS **PERMISSIONS** INHERITED ROLES

RESOURCES GLOBAL **ALARMS**

→ Click the Alarms tab to set the alarm permissions for the selected user.

RESOURCES GLOBAL **ALARMS**

Alarm modules

	Name	Domain	View ✓ ×	Administrator ✓ ×	Handle all alarms ✓ ×	
	Default alarm module	Cathexis Security Enterprise	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>

Select an alarm module above to configure alarm permissions



→ Click the plus icon to add an alarm manager.

	Default alarm module	Cathexis Security Enterprise	
--	----------------------	------------------------------	--

- Grant all
- Revoke all
- Remove

→ Right-click an alarm module to view further options:

- Grant all (permissions)
- Revoke all (permissions)
- Remove alarm module

	Name	Domain
	Default alarm module	Cathexis Security Enterprise

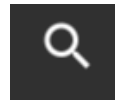
→ Click an alarm module to select it. The alarms for the selected module will display below.

Alarms for 'Default alarm module'				
	Name	Domain	Handle alarm	
			✓	✗
	Motion	Cathexis Security Enterprise	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Paradox	Cathexis Security Enterprise	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Technical alarms	Cathexis Security Enterprise	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Recording failure	Cathexis Security Enterprise	<input checked="" type="checkbox"/>	<input type="checkbox"/>

→ Check or uncheck permissions as desired.



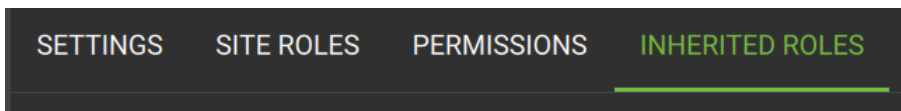
Click the plus icon to add an alarm.



Click the search icon to search alarms.

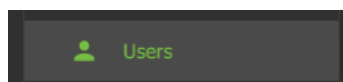
Note: On MultiSite, the alarm module is created automatically. On Enterprise (Linux) the alarm module is created by running a script.

8.4.5 Manage Inherited Roles



Select Inherited Roles to [add a role to a user](#) or [remove a role](#) from a user.

8.4.5.1 Add a Role to a User

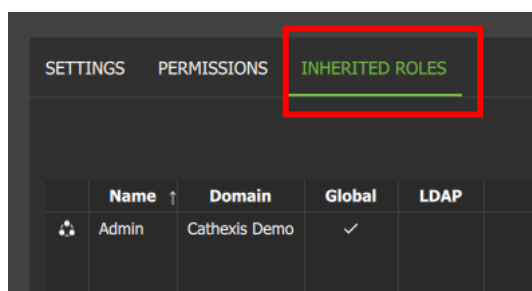


→ Click **Users** to view users in a list.

	Login	Name	E-mail	Access level
	adg			Administrator
	admin			Administrator
	apple			Level 4

→ **Select the user** from the list in the panel on the right-hand side by double-clicking.

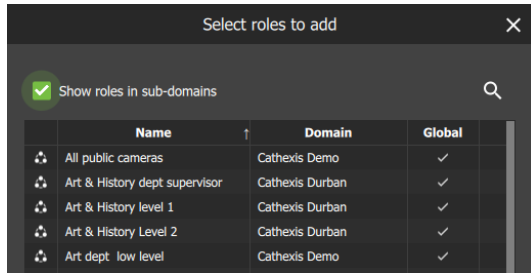
A new dialogue box will open.



→ Select the **INHERITED ROLES** tab.



Next, select the plus icon to add a role.



Another dialogue box will open showing available roles.

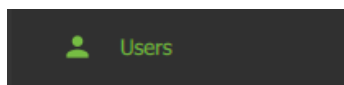
→ **Select a role** to add to a user.

Multiple items may be selected using Shift/Ctrl+click.

→ Click **OK**.

The added roles will reflect in the INHERITED ROLES tab.

8.4.5.2 Remove a Role from a User

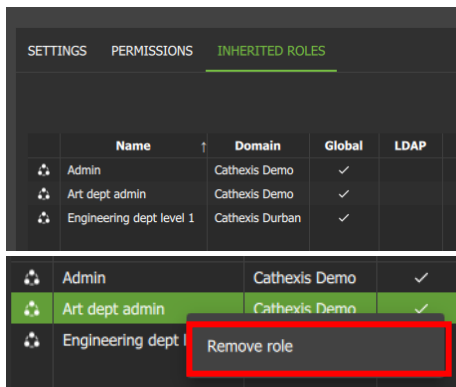


→ Click **Users** to view users in a list.

Login	Name	E-mail	Access level
adg			Administrator
admin			Administrator
apple			Level 4
Audreya			Level 6
bheko			Administrator
Bob			Level 1
bob			Level 1

→ **Select the user** from the list in the panel on the right-hand side by double-clicking.

A new dialogue box will open.

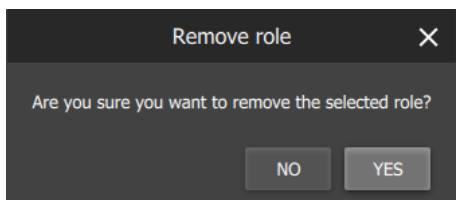


→ Select the **INHERITED ROLES** tab.

→ Right-click a role.

Note: Multiple roles may be selected.

→ **Select Remove role**.



→ From the new dialogue box, click **YES** to confirm.

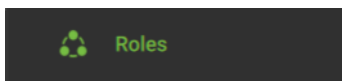
8.5 Roles

This section details how to create or model a role.

Note: For instructions about how to *assign a role* to a user, see [8.4.5.1 Add a Role to a User](#).

Use the instructions below to *create or modify the role itself*. For example, create roles for managers, day staff, and night staff, by allocating different access levels to each role. The role can then be assigned to one user or many users. Users' access permissions for Carbon will then be determined according to roles.

8.5.1 Create a New Role

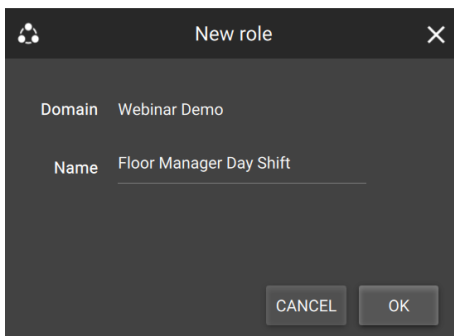


In the Menu panel, navigate to **User management**.

→ Click **Roles**.



→ From the Roles section, click the **plus icon** on the right-hand side to add a new Role.

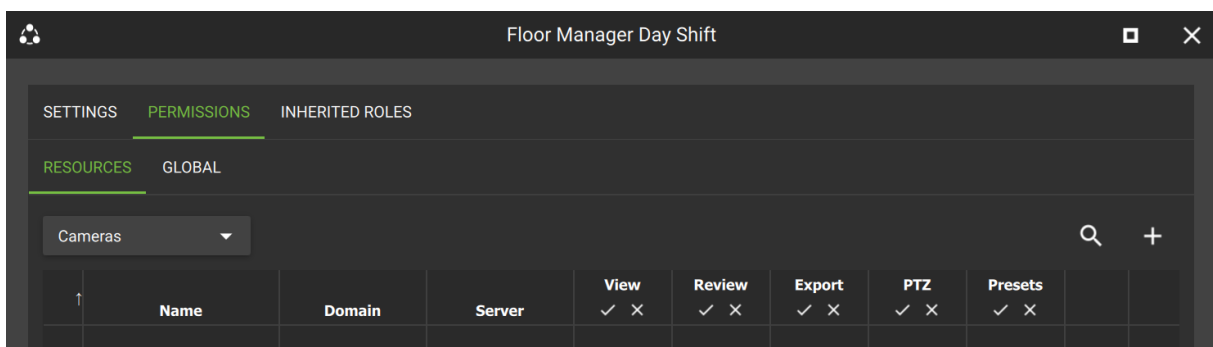


→ Give the role a descriptive **name** e.g. Floor manager day shift.

→ Click **OK**.

A new window will open.

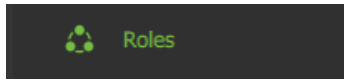
- Here, use the **Permissions tab** to add resources to the Role, such as access to view cameras and outputs.
- Use the **Global tab** to give access to other functions not related to resources, for instance, configuration.



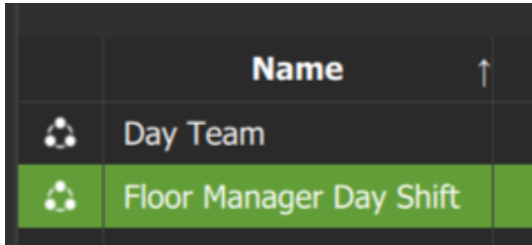
See [8.5.2.2 Modify a Role: Permissions](#), below, for instructions on how to add resources or change access to global functions.

8.5.2 Modify a Role

Roles can be associated with users. Users' access permissions will then be configured according to roles.



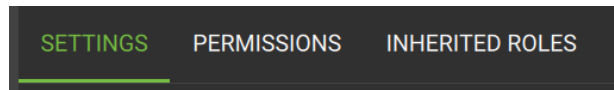
Navigate to the **User management** tab, and click **Roles**.



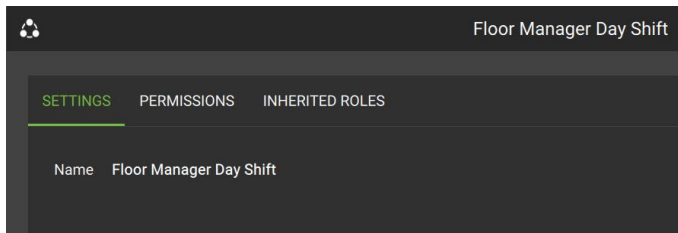
→ **Double-click** a role to edit.

A new dialogue box will open.

→ From there, click on the tabs to edit [Settings](#), [Permissions](#) and [Inherited Roles](#) associated with the selected role.



8.5.2.1 Modify a Role: Settings



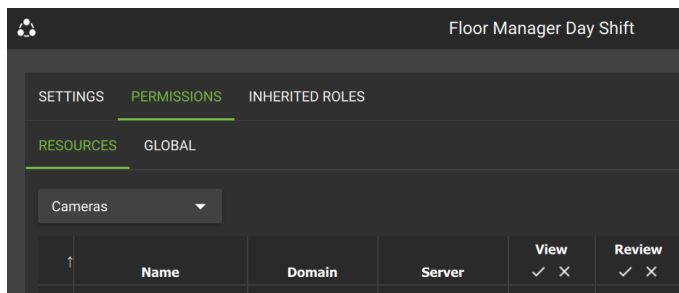
→ To edit the name, click the **SETTINGS** tab.

→ **Click** the field to activate and enter a new name.

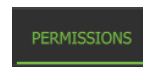


Click the **save** icon to save changes.

8.5.2.2 Modify a Role: Permissions

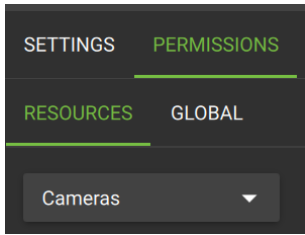


To edit access to resources:



Click the **PERMISSIONS** tab on top.

Resources



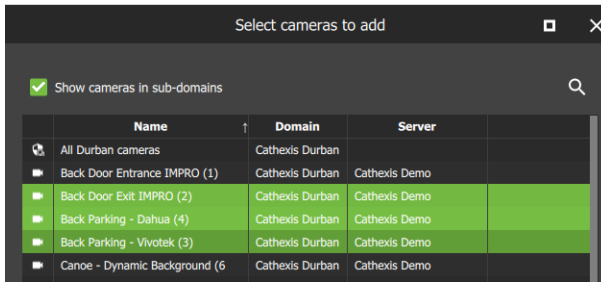
→ From the PERMISSIONS tab, click the **RESOURCE tab** underneath.

→ Click the **drop-down menu** to open.

→ Select the **type of resource**.



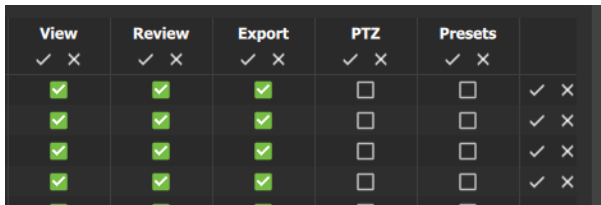
Then click the **plus icon** to add a resource to the role.



→ **Click the items** (e.g. cameras or outputs) to select and add.

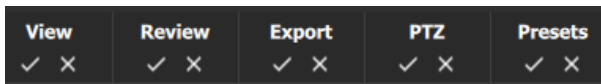
Select multiple resources by using Shift+click /Ctrl+click.

→ Click **OK**.



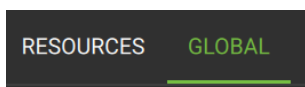
Permission options differ for each resource.

→ **Click or unclick the checkboxes** to add or remove permissions.



→ Click the **tick or cross buttons** along the top to check or uncheck all items in a column.

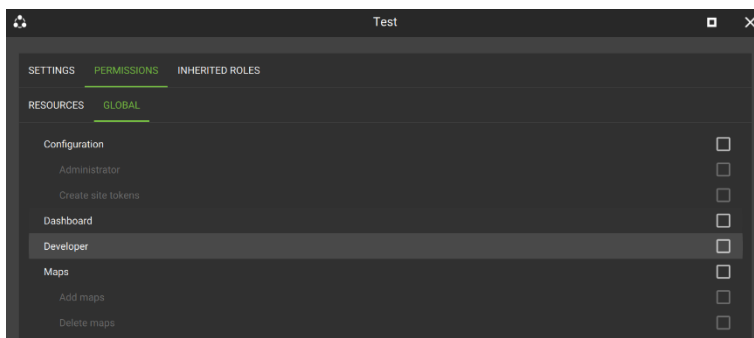
Global Permissions



→ Click the **GLOBAL tab** to manage global settings.



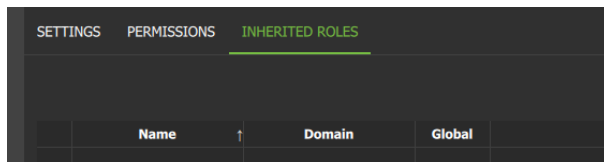
Global settings define user permissions for actions unrelated to individual resources, such as configuration. Global permissions apply to a domain and its sub-domains, and are not tied to specific resources. The permissions are multi-level, because this allows finer-grained permissions to be added, if required.



→ **Check or uncheck the boxes** to modify global permissions. See table below for more information.

Global Permission	Description (the user has permission to do the following)
Configuration	Access to the Configuration Tab. Within the Configuration Tab, the user has access to different functions based on the 'Administrator' and 'Create site tokens' permissions.
Administrator	Access to all of the configuration.
Create site tokens	Permission to create site tokens for adding new sites. (Application example: Grant a 'lower-level' user permission to create site tokens so that sites can be added to an Enterprise, without granting that user access to all the other configuration.)
Dashboard	Access to the Dashboard and Hardware tabs.
Developer	Access to developer diagnostics.
Maps	
Add maps	Permission for a user (without configuration access) to create maps.
Delete maps	Permission for a user (without configuration access) to delete maps

8.5.2.3 Modify a Role: Inherited Roles (Add a Role to Another Role)

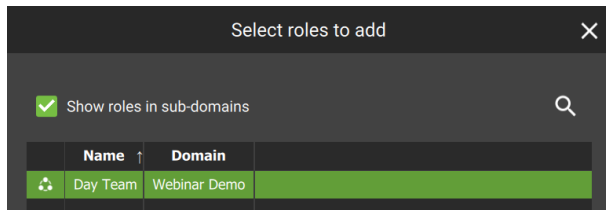


Use the **INHERITED ROLES** tab to add or modify inherited roles.

Here, it is possible to *add* a role to *another* role.

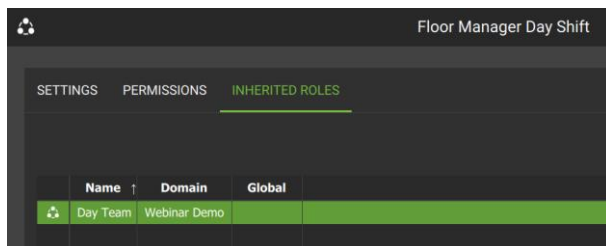


→ To add one role to another role, click the plus icon.



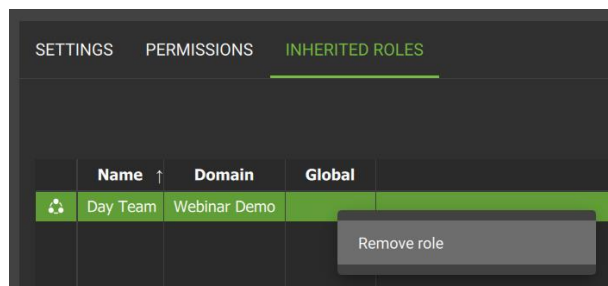
→ Select a role from the list.

→ Click OK.



In the example alongside, the *Floor Manager Day Shift* role has inherited the *Day Team* role.

Remove an Inherited Role

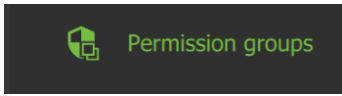


→ To remove an inherited role, right-click it.

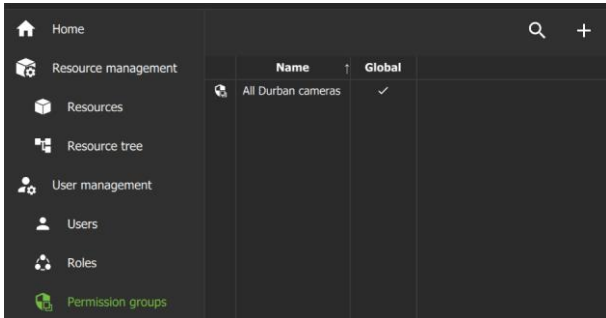
→ Then select **Remove role**.

8.6 Permission Groups (Sites and Enterprise)

Permission groups can be viewed, added or edited from the configuration menu.



- Select the site or Enterprise in the folder tree in the Domains panel.
- Click **Permission groups** in the Menu panel to view, add, or edit.



Existing groups will be listed in the main panel.



To search in a list, select the **search icon** and type in the field that appears.



Select the **plus icon** to add a new permission group.



Select the **menu icon** to add a new group, or to change view to display group's sub-domains, or refresh.

8.6.1 Create a New Permission Group

Permission groups are groups of like resources that can be added to roles or users.

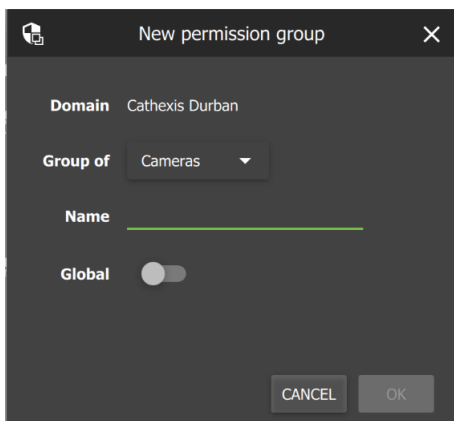
- For example, create an outputs permission group with a selection of chosen outputs.
- Then add this group to a role or to an individual user.
- This user/role will then have the configured permissions (view/control) these outputs.



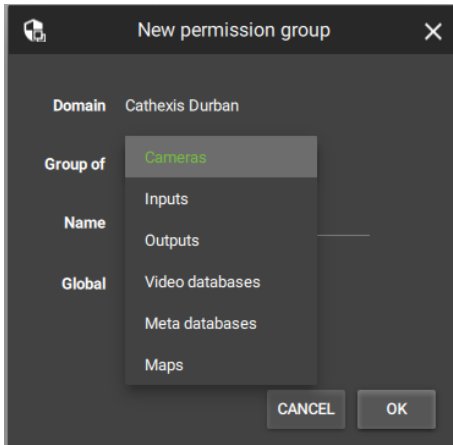
Select the **plus icon** to add a new group;



Or, select the menu icon on the top right panel and choose **New permission group** from the **drop-down** menu.

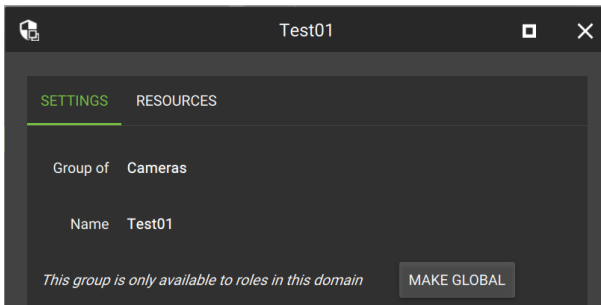


- Give the group a **descriptive name**.
- **Toggle** the switch to enable or disable **global** settings.
- Click the arrow/"Cameras" to select the type of resources to be added to the group.

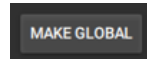


- Choose a resource from the drop-down menu.
- Click OK to finish.

8.6.1.1 Create a New Permission Group: Settings

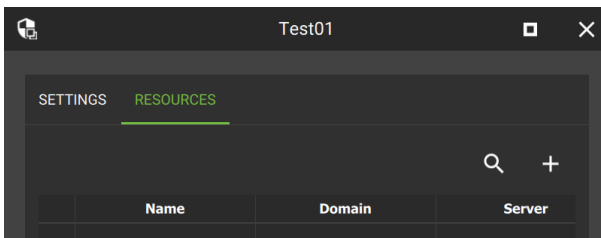


- From the SETTINGS tab, **select the fields** to make changes to the type of resource or the group name.



Click the **MAKE GLOBAL icon** to make the group available to roles in higher domains.

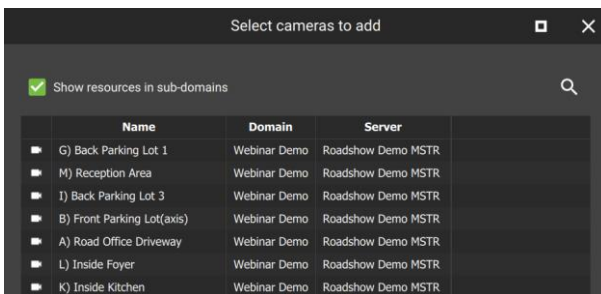
8.6.1.2 Create a New Permission Group: Resources Tab



- Click the **RESOURCES** tab.



Click the **plus icon** to **add resources** to the group.



A list of available resources will open, according to the type selected.

- Click items to **select from the list**.
- **Select multiple** items using Ctrl+click or Shift+click.

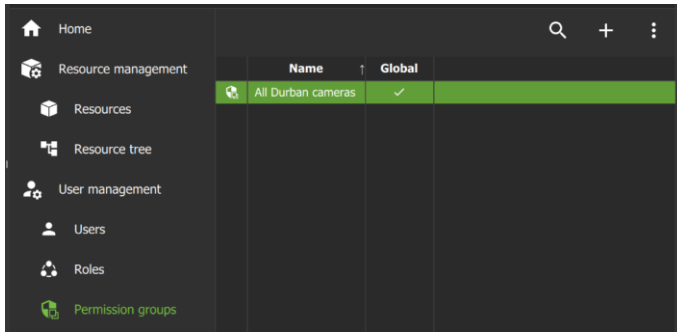


Click the **search icon** and enter a **search term** to filter results.

- **Left-click a resource** and select **OK** to add the resource to the group.

This group can now be added to a user or role. This enables all items in the group to be modified *at one time* when adding or editing permissions (e.g. control PTZ).

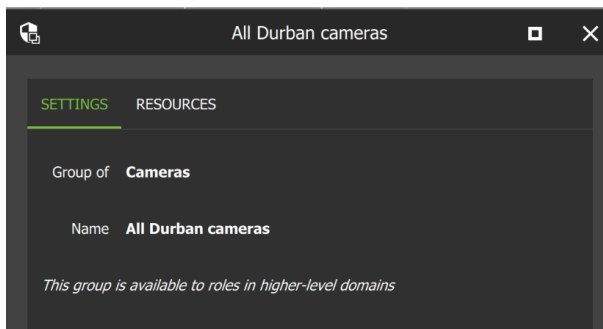
8.6.2 Edit a Permission Group



Double-click a group on the list in the main panel to edit settings and resources.

A new dialogue box will open.

8.6.2.1 Edit a Permission Group: Settings

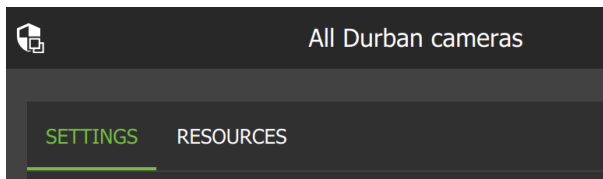


From the settings tab, **hover** over the group name until the **edit icon** appears.

→ **Edit** the current name by **entering text** into the field.

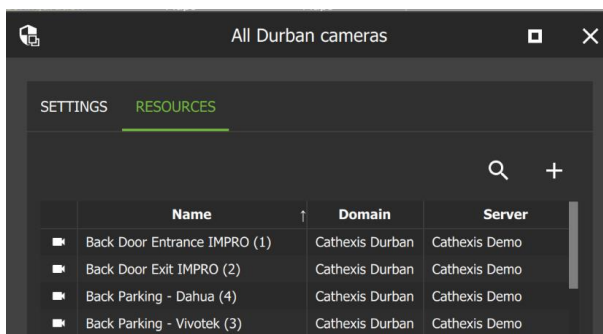


Select the **save icon** to save changes.



→ To add resources to the group, select the **RESOURCES** tab in the same dialogue box.

8.6.2.2 Edit a Permission Group: Resources

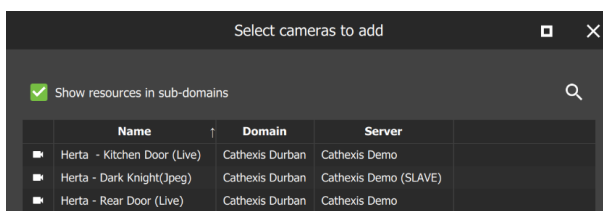


The resources listed in the group will appear in a list.



To add a resource to the group, click the **plus icon**.

A new dialogue box will open with a list of resources, according to the type of resource selected in the SETTINGS tab.

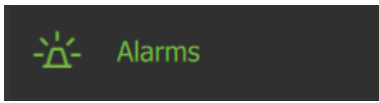


Click the **search icon** and enter a **search term** to filter results.

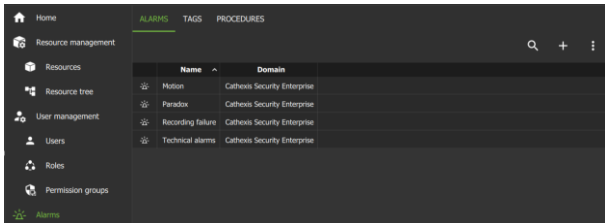
→ **Left-click** a **resource** and select OK to add the resource to the group.

8.7 Alarms (MultiSite and Enterprise)

Alarms can be viewed, added or edited from the configuration menu.

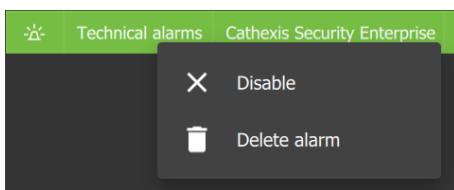
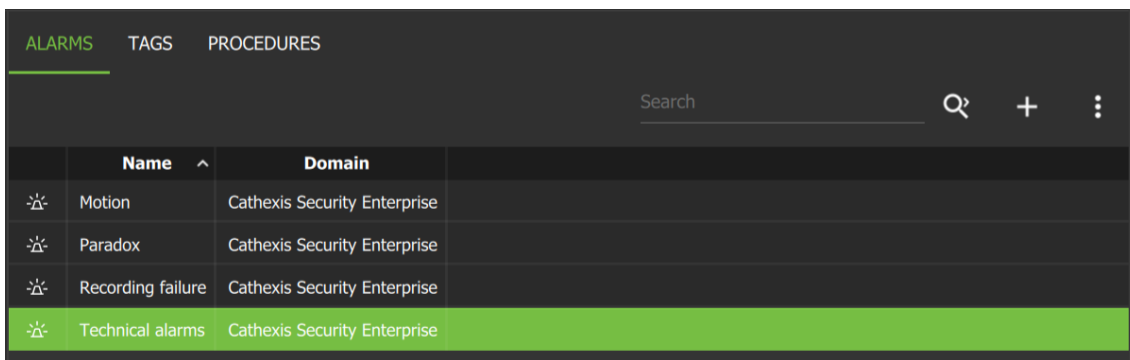


- Select the site or Enterprise in the folder tree in the Domains panel.
- Click **Alarms** in the Menu panel.



Existing alarms will be listed in the Alarm tab of the configuration area.

8.7.1 Alarms



- To disable an alarm, right-click it and select **Disable**.
- To delete an alarm, right-click it and select **Delete alarm**.



To search the alarms, select the **search icon** and type in the field that appears.

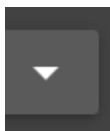


Select the **plus icon** to add a new alarm.



Select the **menu icon** to add a new alarm, or to refresh the alarm list.

8.7.2.1 New Alarm



→ Click the arrow to view further options for each category.

Domain

→ Click the domain area to select a domain. The Select domain window will open.

→ Select the domain or site.

→ Click **OK**.

Name → Enter a name for the alarm.

Priority → Select a priority.

- Critical
- High
- Medium
- Low

Colour → Choose a colour for the icon assigned to the alarm.

- Default
- White
- Red
- Green
- Blue
- Yellow
- Purple
- Orange

Procedure → Assign a procedure to the alarm.

- No procedure
- Office Fire Safety 101

Schedule → Choose a schedule.

- Always
- Alternating hours

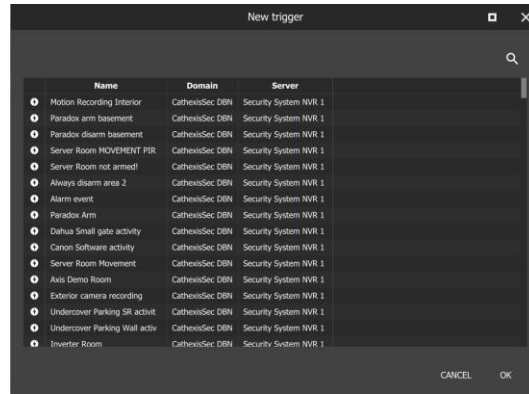
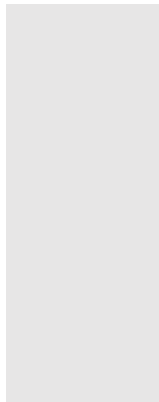
Triggers



→ Click the plus icon to add a trigger to the alarm. This will open the **New trigger** window.

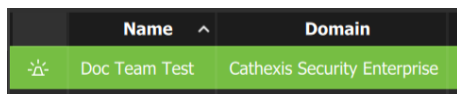


→ To delete a trigger, select it, then click the **delete** icon.



- Click a trigger to select it. To select multiple triggers, Ctrl+click or shift+click.
- Click OK to save changes.

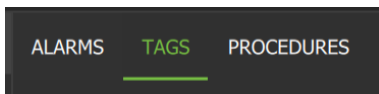
8.7.2.2 Edit Alarm



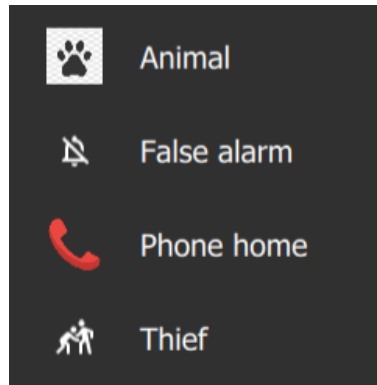
- To edit an alarm, double-click it.
- This will open the **Edit alarm** window.

8.7.2 Tags

It is possible to create tags, which can be added to alarms when they are handled in the [Alarms tab](#).



- Select the **Tags** tab in the Configuration area.



Default tags will be listed.



- To delete a tag, click the **delete icon**.



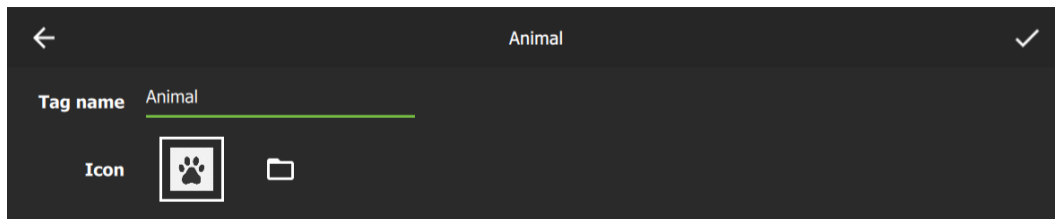
- To search tags, click the **search icon**.



- To add a new tag, click the **plus icon**.

8.7.2.1 Edit Tag

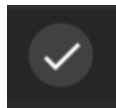
→ Click the name of a tag to edit it. This will open the **Edit tag** window.



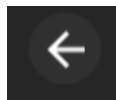
→ Edit the tag name in the field.



→ Click the folder icon to choose another icon.



→ Click the tick icon to save changes.

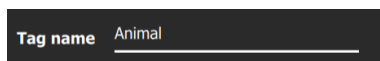


→ Click the arrow icon to go back to the Tags tab.

8.7.2.2 Create Tag



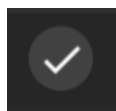
→ To add a new tag, click the **plus icon**. This will open the **New Tag** window.



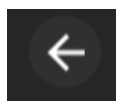
→ Enter a name in the tag name field.



→ Click the folder icon to choose an icon.

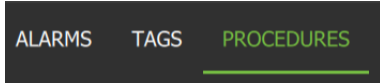


→ Click the tick icon to save changes.



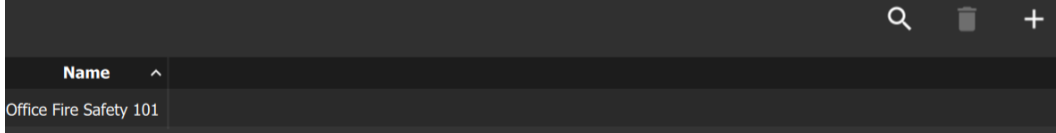
→ Click the arrow icon to go back to the Tags tab.

8.7.3 Procedures



→ Click the Procedures tab in the configuration area.

Existing tags will be listed.



→ To delete a procedure, click the **delete icon**.



→ To search procedures, click the **search icon**.

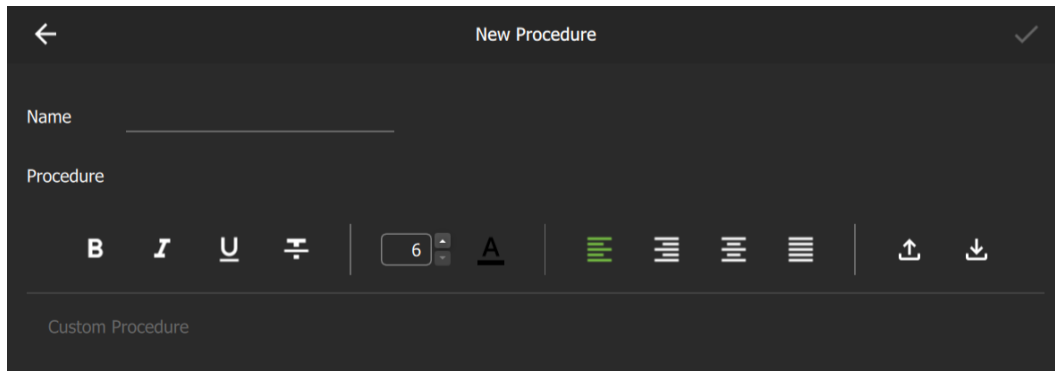


→ To add a new procedures, click the **plus icon**.

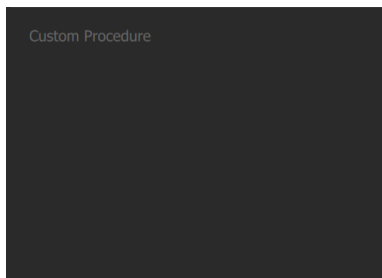
8.7.3 Create Procedure



→ To add a new procedures, click the **plus icon**. This will open the **New Procedure** window.



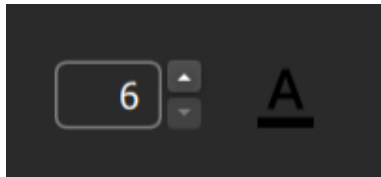
→ Enter a name for the procedure in the text field.



→ Click the custom procedure area and add the text of the procedure.



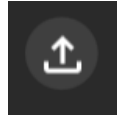
→ To edit text formatting within the procedure, select the text and click one of these options: Bold, Italics, Underlined, or Strikethrough.



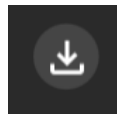
→ Choose text size and colour.



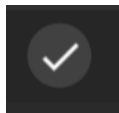
→ Choose whether the procedure text is left aligned, right aligned, centred, or justified.



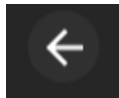
→ Click this icon to export the procedure.



→ Click this icon to import the procedure.



→ Click the tick icon to save changes.



→ Click the arrow icon to go back to the Tags tab.

For instructions on using the Alarms tab, see [15. Alarms Tab](#).

9. Feature Search

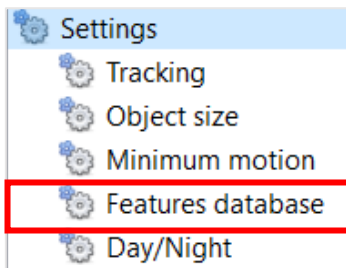
Feature Search allows the user to select an image of a person or vehicle and search camera feeds for similar images.



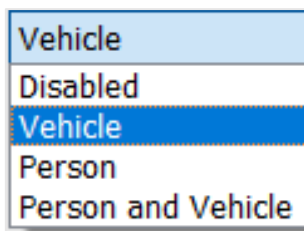
Note: To use Feature Search in Carbon, the features database must first be enabled in CathexisVision. The features database can only run on a master server. Feature Search is available with CathexisVision Advanced Analytics (License III).

After enabling the features database (see below), [open Feature Search in Carbon](#).

1. Log in to CathexisVision.
2. Follow this path: **Site / Open tab / Setup Tab / Configure Servers / Video Analytics / New / Analytics type / Basic object classifier**
3. In the basic object classifier settings, select **Features database**.

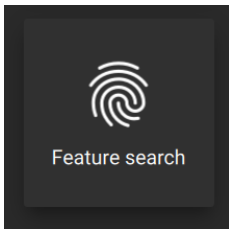


4. Click to enable the features database.
5. Choose from one of the following options: Vehicle, Person, or Person and Vehicle.



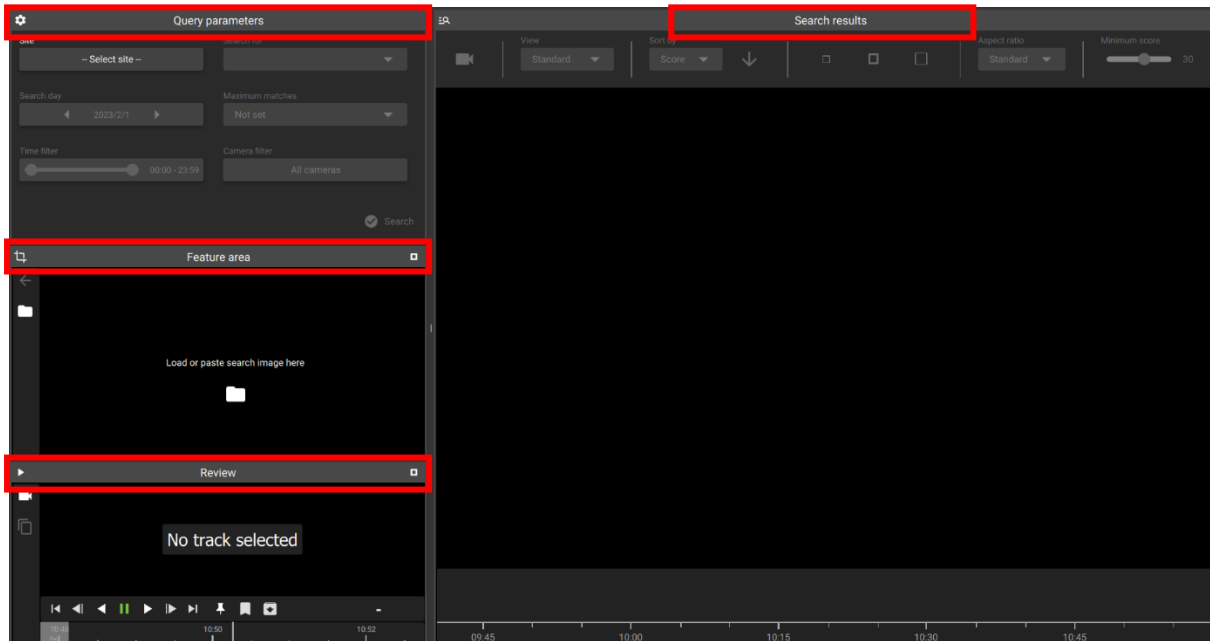
6. Complete analytics configuration and consult the *CathexisVision Setup Manual* for more information.

9.1 Open Feature Search in Carbon



From the home menu, click the Feature search icon to open a new Feature search tab.

The Query parameters, Feature area, Review area and Search results window will be displayed:



To use **Feature Search**:

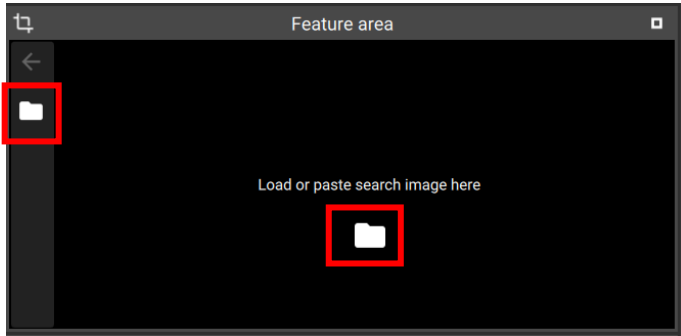
- Select image ([9.2](#)).
- Choose a feature area ([9.3](#)).
- Set query parameters ([9.4](#)).
- Search results ([9.5](#)).

9.2 Select Image

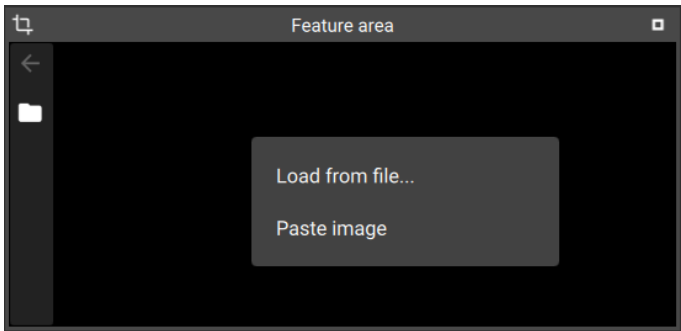
There are three ways to select an image for Feature Search:

- Upload an image of a person or vehicle directly ([9.2.1](#)).
- Select a thumbnail image from a review area ([9.2.2](#)).
- 'Send' an image from the Monitoring Tab using the context (right-click) menu ([9.2.3](#)).

9.2.1 Upload Image



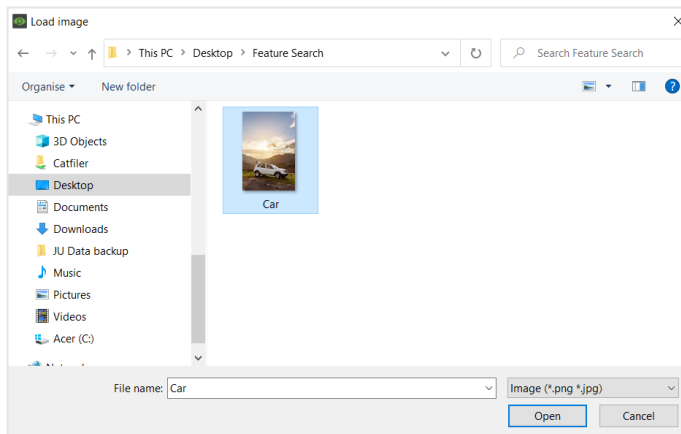
→ Click either **folder icon**.



→ Alternatively, **right-click** the feature area.

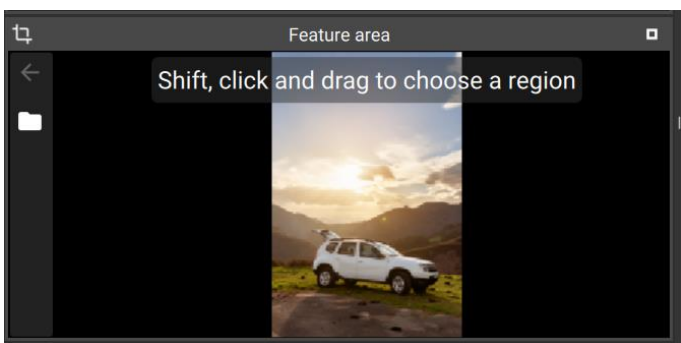
From the menu that appears:

- Load from file: See below.
- Paste image: Selecting this will paste an image that has been copied to the clipboard.



→ **Select an image file** from the computer.

→ Click **Open**.



The image will appear in the Feature area.

Once the image is selected, the user can select a sub-region of the image. See [9.3 Feature Area](#).

9.2.2 Find Image Using Thumbnail

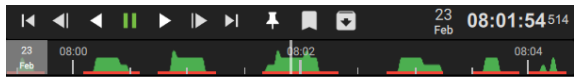
Use the **Review** panel to search for a reference image.



Click the **camera icon** to choose a new camera to review.

Select from the list that opens up.

Use the timeline or calendar tool to **locate an appropriate frame** with which to search.



Click the **copy icon** to place the frame in the "Feature area."



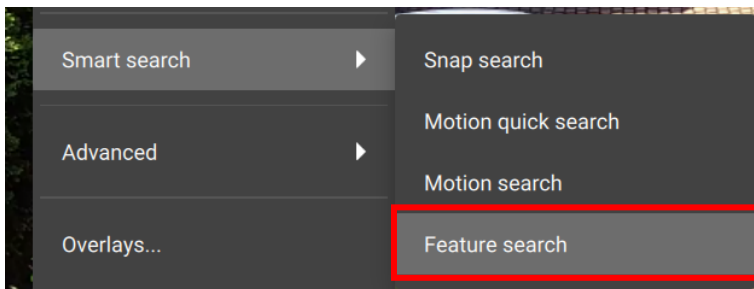
To expand the Review area, click the white square in the right corner of the frame.



To reduce the expanded frame, click the white square in the right corner.

Once the image is selected, the user can select a sub-region of the image. See [9.3 Feature Area](#).

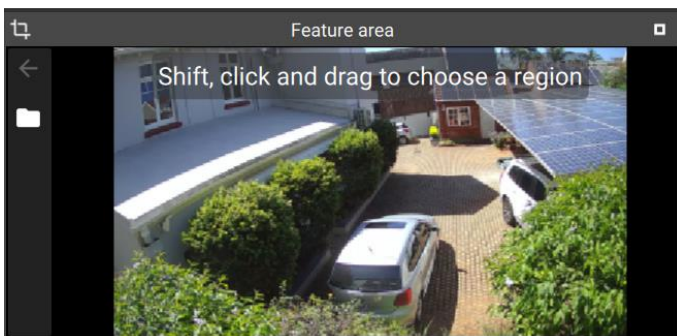
9.2.3 Use Image from Monitoring Tab



In the Monitoring Tab, right-click on a camera feed.

Select **Feature search** from the **context menu**.

will send an image to a Feature Search

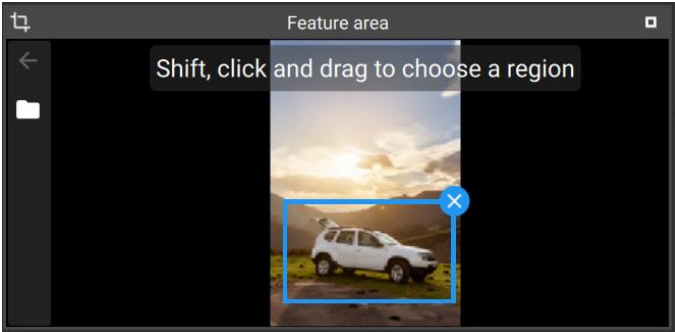


The image will appear in the Feature area.

Once the image is selected, the user can select a sub-region of the image. See [9.3 Feature Area](#).

9.3 Feature Area

Use this area to upload a file or to choose a sub-region for the search.

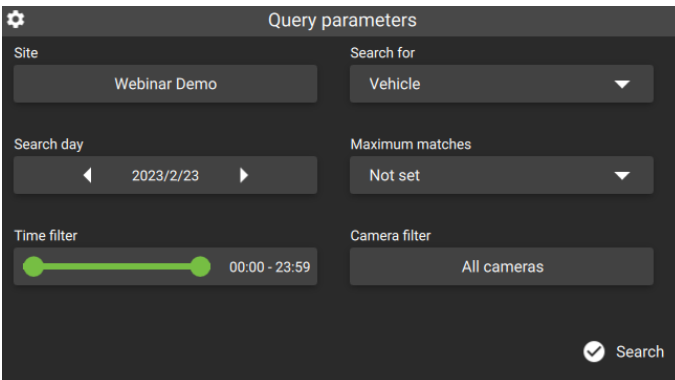


→ To select the specific area on the image, **Shift + click and drag**.

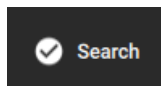
Then complete the search using the Query parameters (9.4).

9.4 Query Parameters

Click the fields to open menus.



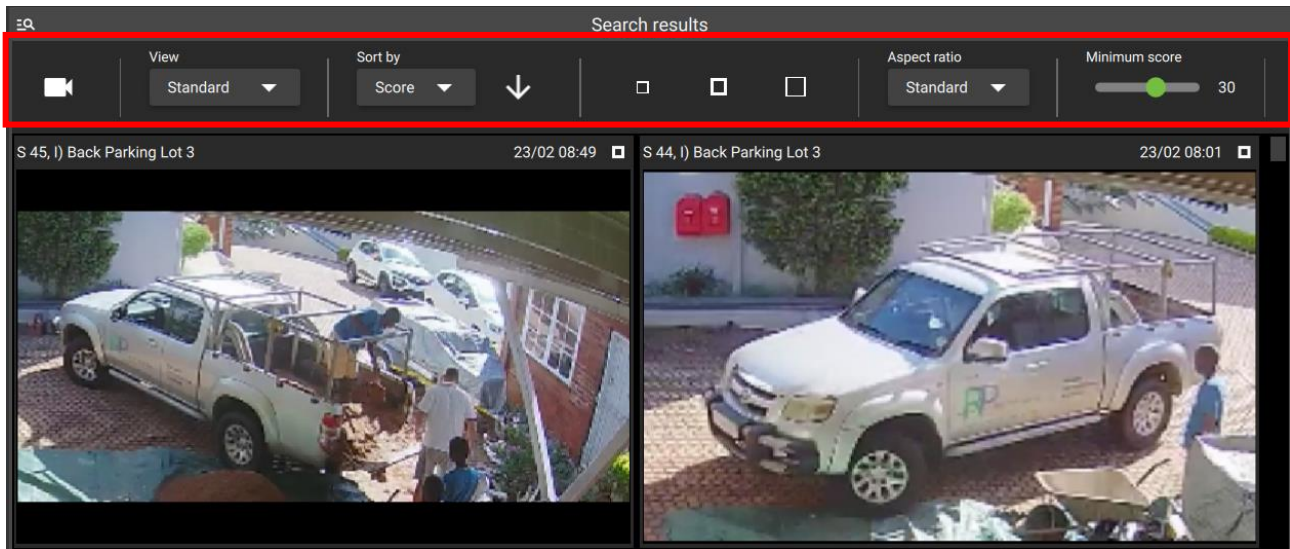
Site	Click the Site field and choose a site from the pop-up that opens.
Search for	Select Vehicle or Person .
Search day	Use the arrows to search next or previous day. Or, click the date to open a calendar.
Maximum matches	Choose between 10–1000 Maximum matches .
Time filter	Use the slider to narrow the time filter .
Camera filter	Select cameras for a search.



Finally, click **Search**.

9.5 Search Results

Search results appear in the main panel. These are images which match the reference frame.

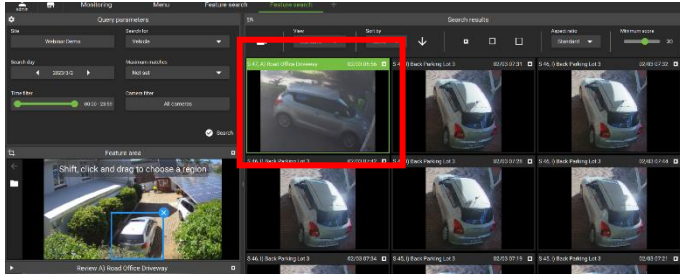


Use the search tools to refine the results.

	<p>Click the camera icon to narrow down results by camera.</p>
<p>View Standard ▼</p>	<p>Choose between: - Standard view - View By camera.</p>
<p>Sort by Score ▼</p>	<p>Choose between viewing by Score or Time. The "Score" is the extent to which the match is accurate.</p>
	<p>Choose to view results in ascending or descending order. This indicates how the "Sort by" index will be applied.</p>
	<p>Choose small, medium, or large thumbnails of results.</p>
<p>Aspect ratio Standard ▼</p>	<p>Adjust aspect ratio. Choose between Standard, Tall, or Wide.</p>
<p>Minimum score 30</p>	<p>Adjust the Minimum score. This includes or excludes matches based on accuracy.</p>

9.5.1 Review Video Footage Using a Search Result

Search results for a feature search allow users direct access to the video footage.



Double-click a thumbnail in the search result area on the right-hand side.

The video footage associated with the selected search result will begin to play in the reviewing area on the left.



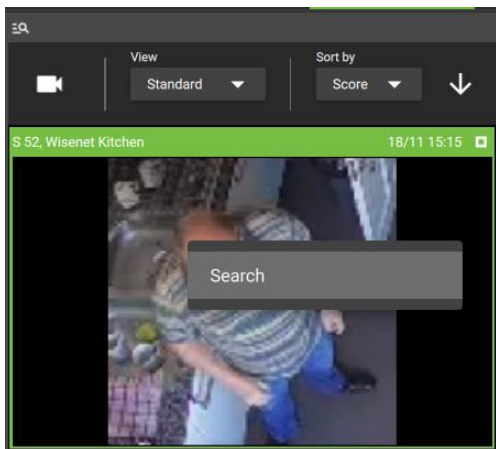
To expand the Review area, click the white square in the right corner of the frame.



To reduce the expanded frame, click the white square in the right corner.

9.5.2 Search Using a Search Result

Use a thumbnail (search result) as a reference frame to conduct a further search.



→ **Right-click** the thumbnail.

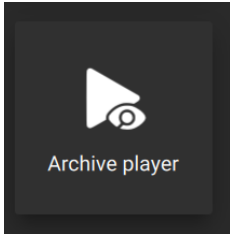
A small menu will appear.

→ **Click Search.**

Results will show in the main panel.

10. Archive Player

The CathesisVision Carbon Archive Player has two interfaces: the [file interface](#) for browsing, and the [review interface](#).

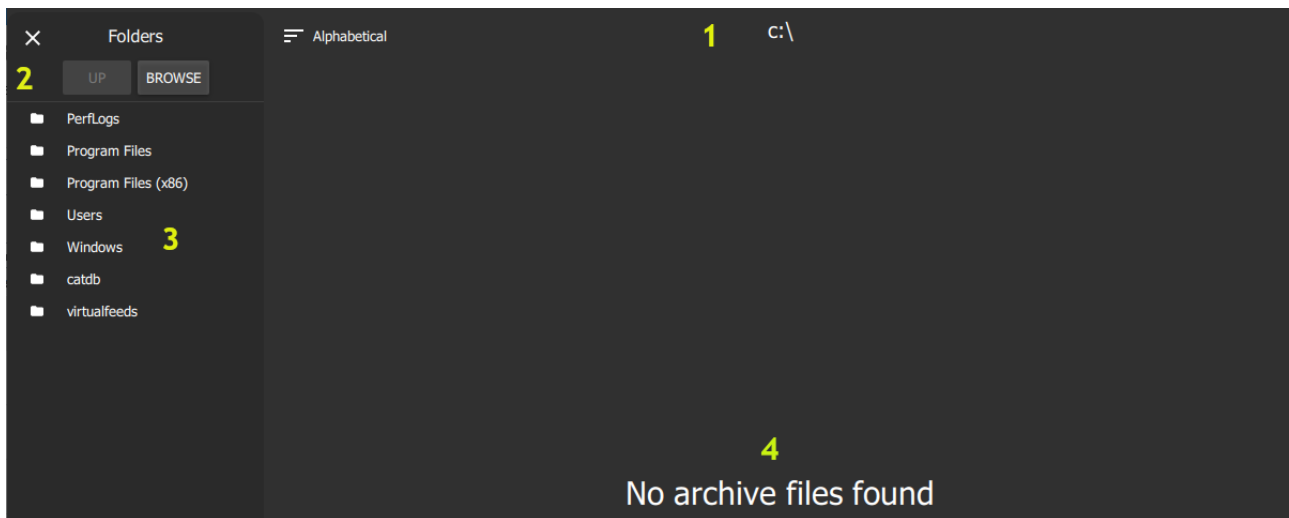


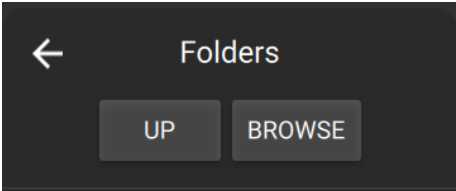
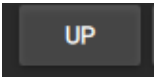
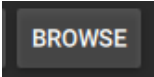
From the home menu, click the **Archive player** icon to open a new Archive player tab.

10.1 File Interface

When the Archive Player opens, the file interface will be displayed. Here, files may be browsed in search of CathesisVision archives to review.

The numbers (1-4) in the image correspond to an explanation in the table below.



Area	Description
1	Current location. This shows the location on the computer that is currently selected.
2	<p>File browsing buttons:</p>  <p> Click this to open the parent folder of the currently selected location.</p> <p> Click to open a file browse window.</p>

<p>3</p>	<p>Folders List. This area will list the folders in the current location. Click a folder to open it.</p>
<p>4</p>	<p>Archive file display. If there are any archive files in the current selection, they will be displayed here.</p> <div data-bbox="256 347 865 575" data-label="Image"> </div> <p>If there are no archive files in the currently selected location, the area will display the 'No archive files found' message. Click on an archive to switch interface and review it.</p> <div data-bbox="903 580 1056 651" data-label="Image"> </div> <p>Clicking the two dots next to the file icon will open the parent folder of the currently selected location.</p>

10.1.1 Review Archive

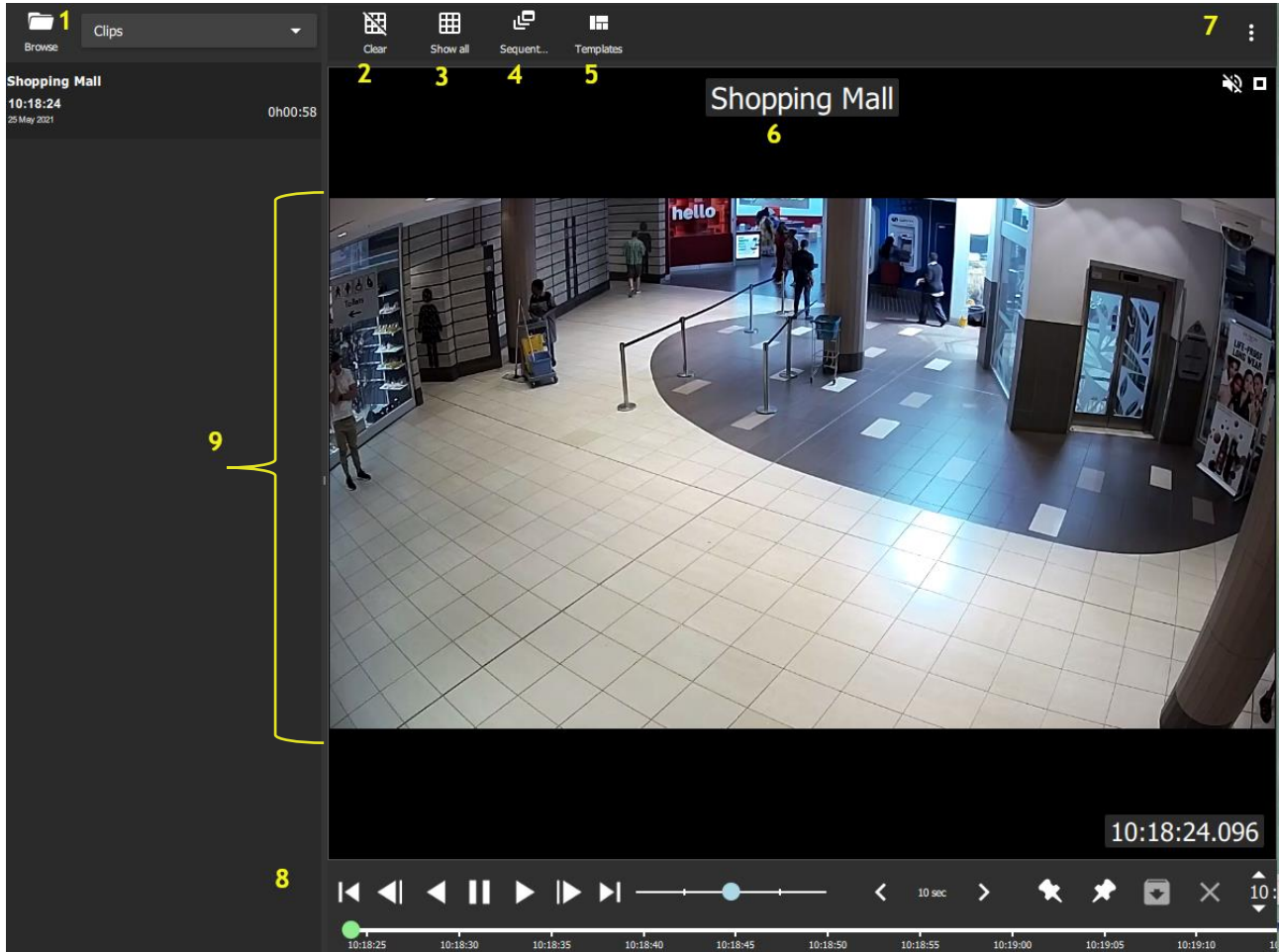
To review, click on a specific archive in the archive file display area. The interface will then switch to Review.



Clicking on the arrow in the top-left corner will also switch to the Review interface. The last archive reviewed will be displayed. If no archive has been previously selected for review, the review interface will be blank.

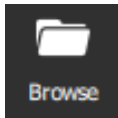
10.2 Review Interface

The numbers (1-9) in the image correspond to a description in the table below.



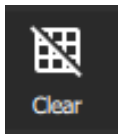
Area	Description
1	Switch interface
2	Clear all cameras
3	Show all cameras
4	Toggle sequential mode
5	Change template
6	Archive file name
7	More options
8	Timeline and review control
9	Review area

10.2.1 Switch Interface



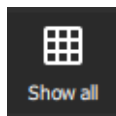
When in the review interface, clicking on the folder icon/button will switch to the browsing interface.

10.2.2 Clear all Cameras

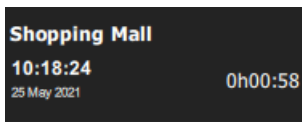


Click this icon to clear all cameras. The camera panel/s will go blank.

10.2.3 Show all Cameras



Click this icon to show all cameras in the review area.



Note: For archives with only one archived camera, only one camera will be listed in the panel on the left. For archives with multiple archived cameras, all archived cameras will be listed.

10.2.3.1 Drag Cameras

Cameras may be dragged from the Cameras List onto the review area by left-clicking on a selected camera and dragging to desired panel in the review area.

Multiple cameras may be dragged simultaneously onto the review area by control/shift-clicking on the desired cameras and dragging them onto the review area.

Note: If multiple cameras are dragged onto review area, they will only be shown if a review template with enough panels has been selected. To show all listed cameras and automatically adjust number of panels, rather use the **Show all Cameras** button.

10.2.4 Toggle Sequential Mode

Sequential mode can be used where multiple files have been saved together. This mode plays the files in time order, one after the other. (If necessary, the display will divide to play overlapping files).

This is useful when a sequence has been saved to record an incident using adjacent cameras or tags.

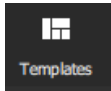


Click this icon to toggle in and out of sequential mode.

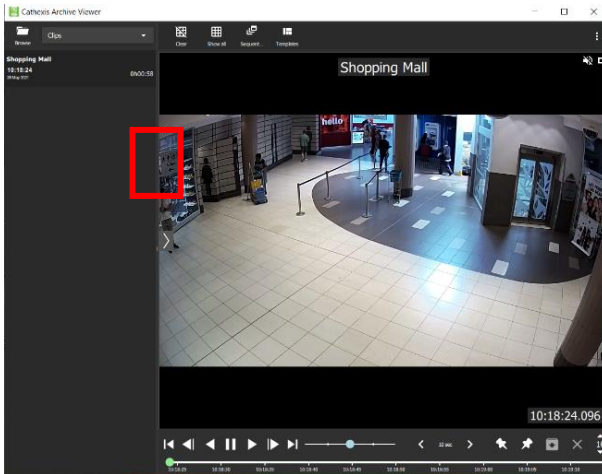
Note: Tagging and exporting are disabled in sequential mode.

10.2.5 Change Template

The review layout of archived video is managed in the templates panel.



→ Click on the **Templates button** to display the templates panel.



→ Alternatively, hover the mouse over the left side of the review panel.

An arrow will appear.

→ Click on it to display the templates panel.

Note: This is disabled in sequential mode.

10.2.5.1 Templates List

All templates are listed here. Scroll through the list by click the arrows at the top and bottom of the panel, or use the mouse wheel.



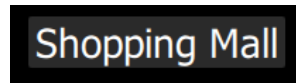
→ Click on a template to apply it.

If archives have already been selected for review, the archives/archived cameras will automatically be distributed into the panels of the selected template.



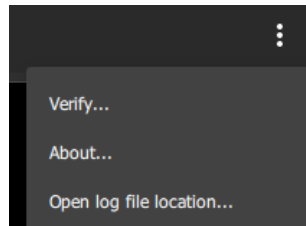
To close the list, click on the X in the top-right of the panel.

10.2.6 Archive File Name



The name of the archive file (as it was named at the time of archive) is displayed at the top of the review interface.

10.2.7 More Options



→ Click on **the menu** (three dots) at the top-right of the review interface to see the options available for the selected archive file:

- [Verify](#)
- [About](#)
- [Open log file location](#)

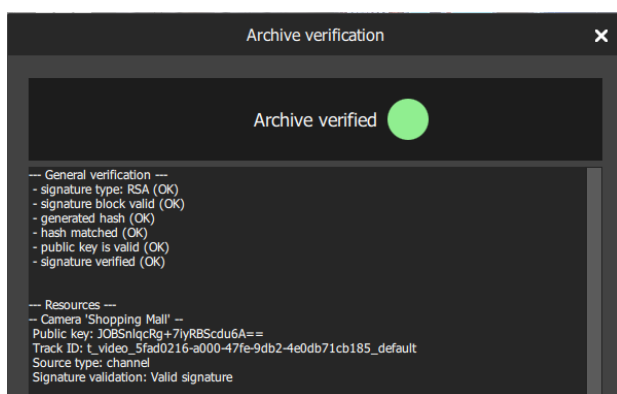
10.2.7.1 Verify

Archive verification checks for the overall signature which links the archive to the source NVR, and provides a verification report indicating the authenticity of the archive.

The details of the verification report may be copy-pasted and emailed to Cathexis Support for guidance (support@cathexisvideo.com).

Note: Sub-archives (archives of archives) cannot be reliably verified because they do not contain the signature generated by the original NVR that sourced the video data.

Once the verification process is complete, one of two reports will be issued: **Archive Verified** or **Archive cannot be verified**.



Archive Verified

The archive file will be determined a verified archive. The **General Verification** information is listed.

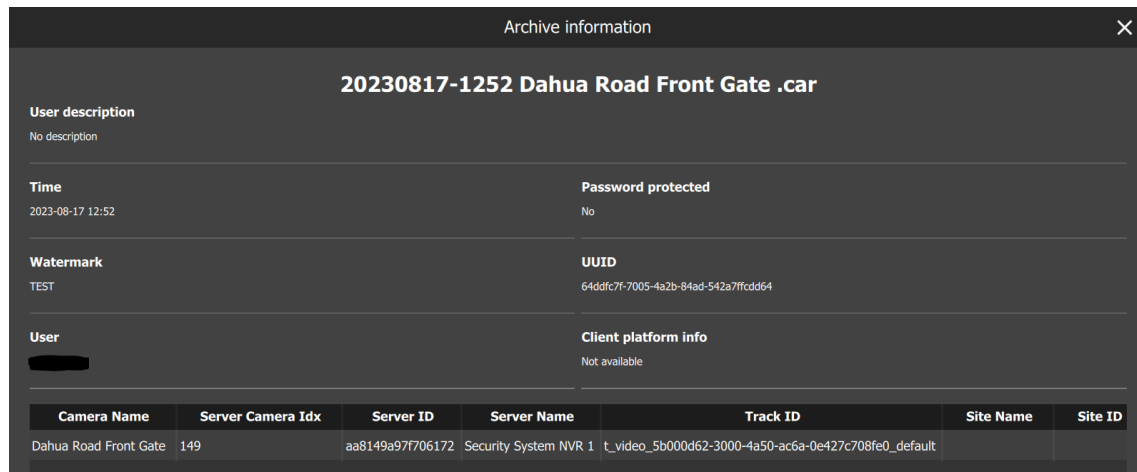
In the case of archives with multiple cameras, the camera resources are listed along with the verified information for each camera.

Report text may be copied.

Archive Not Verified

In this case, the verification has failed. The general verification information will be listed, particularly the fact that no signature has been retained. Report text may be copied.

10.2.7.2 About



→ Click **About** to display information about the selected archive.

The archive information window will display the title of the archive, as well as any user description that was set for it during the archive process. Camera/s will be listed along with associated information. The fields include:

- Archive time
- Password protected status
- Watermark
- Archive UUID
- User
- Client platform info

→ Drag the scrollbar along the bottom of the window to view all information.

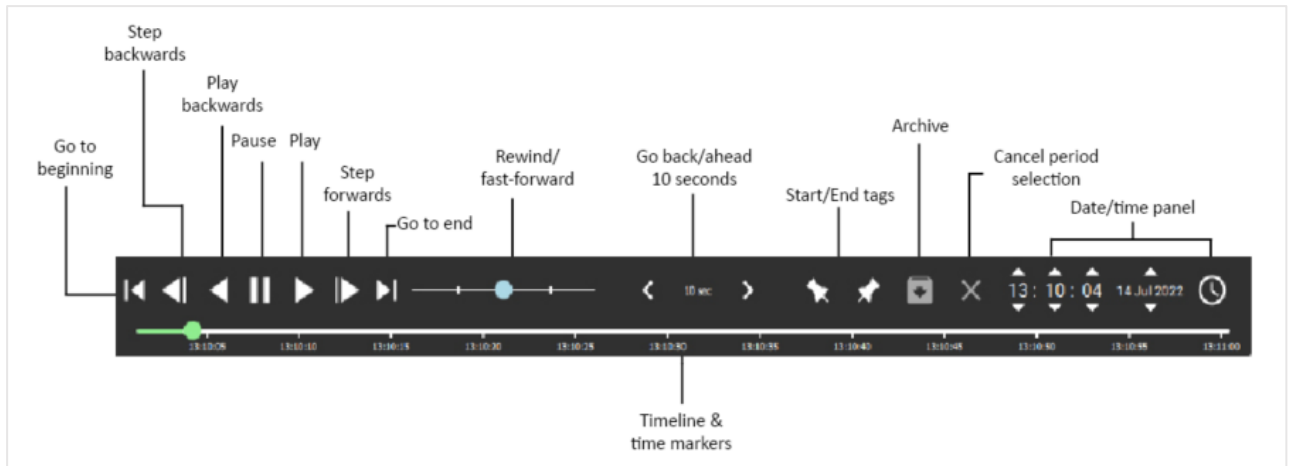
Some of the information listed includes the ID of the camera on the server, the ID and name of the recording server, and the ID and name of the site.

10.2.7.3 Open Log File Location

→ Click **Open log file location** to open the folder containing the application log file in an Explorer window.

10.2.8 Timeline and Review Control

The **timeline and review control panel** is used to navigate the archived video, as well as to export video from an archive into another archive file, or into a media file.



10.2.8.1 Rewind/Fast-Forward

There are two ways to rewind and fast-forward in the Review Control Panel.

Option 1



Adjust the playback speed by clicking the **play** or **play backwards** icons again – up to 4 times.



Four dots represent the maximum playback speed.

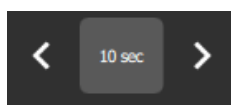
Option 2

Drag the slider left to rewind and drag it right to fast-forward. Leaving the slider in the middle will play video at normal speed.



The further **left** the slider is dragged, the faster the video will rewind. The further **right** the slider is dragged, the faster the video will fast-forward.

10.2.8.2 Go Back/Ahead



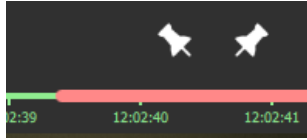
Click the left/right buttons to go back/ahead in video by ten seconds.

10.2.8.3 Start/End Tags



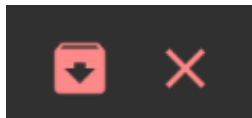
These tags are used to select periods of the video to archive into archive or media files.

To select portions for archive/export:



1. Click to the desired beginning point of the video portion to be archived or exported.
2. Click the left/start tag.
3. Click to the desired end point of video portion to be archived or exported.
4. Click the right/end tag.

The selected video portion will be highlighted in red on the timeline.



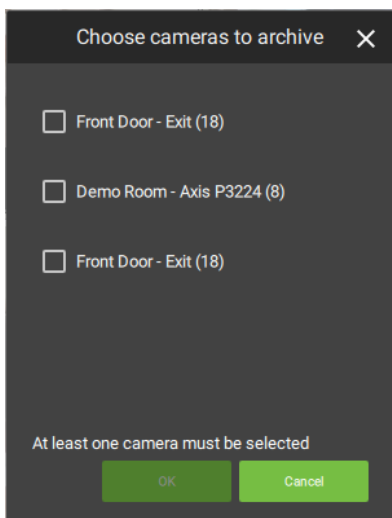
The **Create archive** and **Erase tags** icon will turn red when a selection has been made.

Note: Tagging and exporting is disabled in sequential mode.

10.2.8.4 Archiving Window



Once the portion of video has been selected, click this icon to archive or export it. The archiving window will then open, explained below.

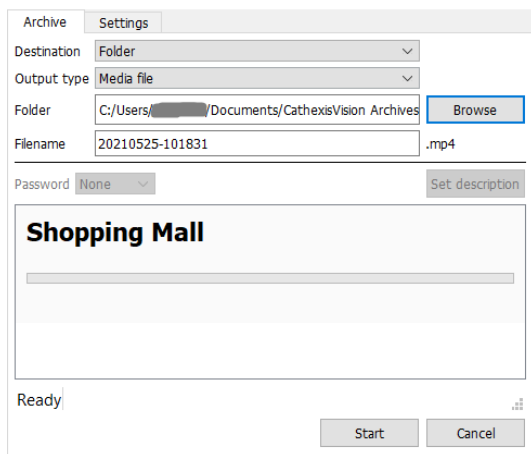


If archiving/exporting an archive that has multiple cameras, the user will be prompted to select the camera/s to archive before the archiving window opens. At least one camera must be selected in order to proceed.

Note: Exporting to media (MP4) file will not be available if more than one camera is selected for archive.

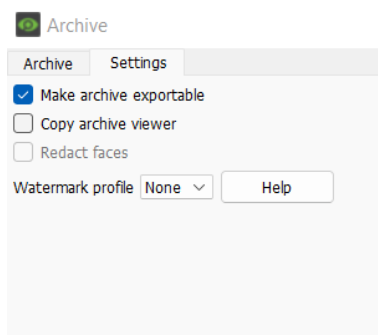
Once the camera/s for archive have been selected (if applicable), the video is ready to be archived. There are two applicable tabs: Archive and Settings.

Archive Tab

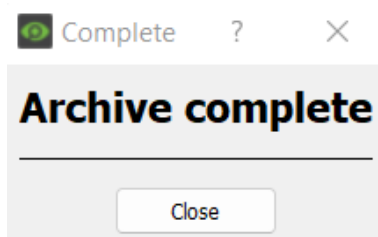


- Set the archive **Destination**.
- Select the **Output Type**.
- **Note:** The media file (MP4) option is not available if more than one camera has been selected in the case of multiple-camera archives.
- Select the **output Folder**. (Only applicable when Folder destination is selected.)
- Set the **filename**.
- If desired, set a random generated or Custom **password** required to view the archive later on. (Only applicable to archive/.CAR files).
- Set a **Description** for the archive. (Only applicable to archive/.CAR files).

Settings Tab



- Check the **Make archive exportable** box to enable an archive/.CAR file to be exported as a media/MP4 file at a later stage.
- Check the **Copy archive viewer** box if the archive will be viewed on a unit that does not have the software installed. (Only available for archive/.CAR files).
- Check **Redact faces** (media/MP4 files only) if faces need to be redacted from the video.
- Select predefined **Watermark profiles** from the drop-down menu (if available). Watermark profiles are used to enforce/offer the option to apply a watermark to archived video and are created by site administrators in **CathesisVision / Setup Tab / General Site setup**. Click **Help** to show a Watermark profile help window.



- When settings configuration for archiving is complete, return to the Archive tab and click **Start**.
A pop-up window will appear when archiving is complete.

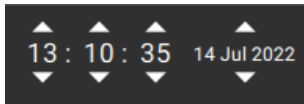
10.2.8.5 Cancel Period Selection



Click this icon to cancel the selection of video for archiving.

10.2.8.6 Date and Time Panel

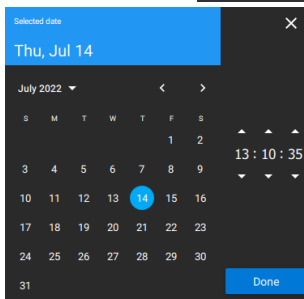
There are two ways to select the date and time to review on the Timeline and Review Control.



Use the time and date spinner to set the hour/minute/second/day.



Click the clock icon to access up a full calendar to select a specific day.



Navigate to the desired date, and use the time spinner to set the desired time.

10.2.8.7 Timeline and Time Markers



The timeline displays the current location/progression in the playback with a green dot.

Markers along the timeline indicate time intervals. These are determined in relation to the total length of the video.

10.2.9 Review Panel

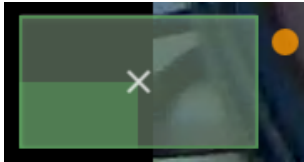
The review panel is the area where archived video is viewed. Depending on the template chosen, and the number of archived cameras, the review area may display one or multiple camera panels.



The name of the archived camera is displayed over the video at the top of the camera panel.



The time in the video is displayed at the bottom right corner of the camera panel.

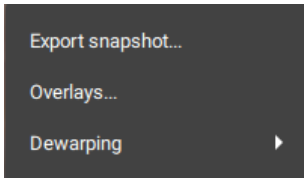


→ Hold the cursor over the footage in the review panel and scroll with the mouse scrolling wheel to zoom in and out on the video.

The scale of the zoom is shown in the bottom left corner of the camera panel.



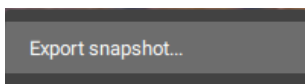
An orange dot appears on the point of focus for the zoom.



→ Right-click anywhere in the review area to configure these options from the context menu:

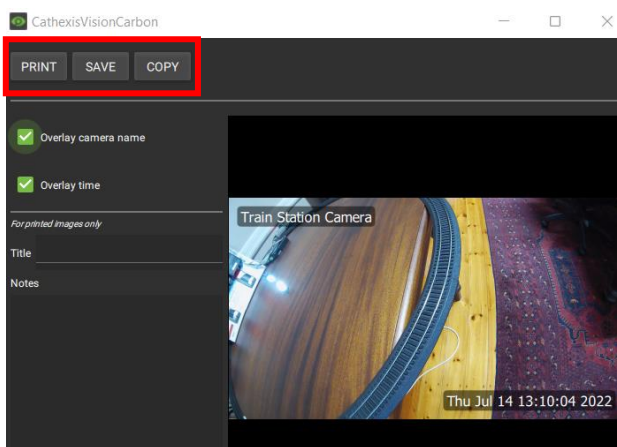
- [Export snapshot](#)
- [Overlays](#)
- [Dewarping](#)

10.2.9.1 Export Snapshot



Select **Export snapshot** from the context menu.

This opens a window to select where and how to export the selected snapshot.



→ Click on the options at the top left corner to **Print/Save/Copy** the snapshot.

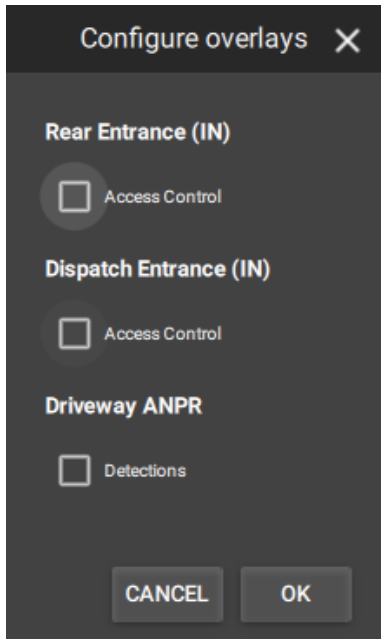
Note: The snapshot will be copied to the clipboard.

→ Select **Overlay camera name** to overlay the camera name on the snapshot.

→ Select **Overlay time** to overlay the time on the snapshot.

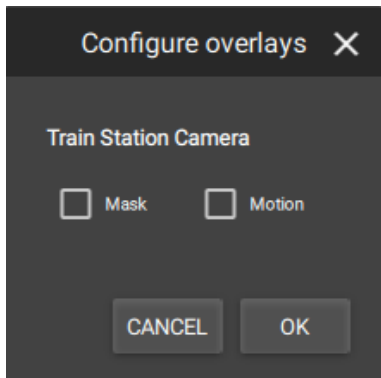
For printed snapshots only: Give the snapshot a title and description to be printed along with the image.

10.2.9.2 Overlays



→ Select **Overlays** from the context menu to configure overlays. Available overlays for applicable cameras will be shown.

If a file has multiple cameras, overlay options for each camera will be displayed.

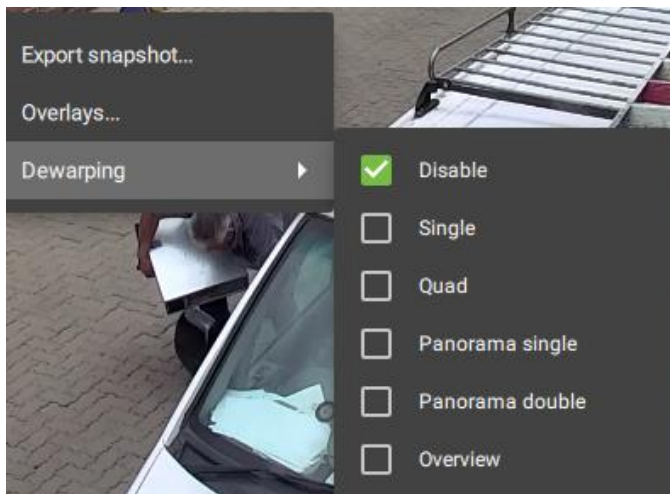


If a camera has multiple overlay options, all will be displayed.

→ Select the desired overlay and then click **OK**.

10.2.9.3 Dewarping

Select Dewarping from the context menu to see options.



→ Check the relevant box to select the desired dewarping option.

→ Use the **dewarping** tools to transform a fisheye camera into a flat view, or, select **Disable** to see the full fisheye (circular) view.

11. Site Monitors

Note: CathexisVision 2023 is required to set up a site monitor.



The **CathexisVision Site Monitor** is a separate desktop application.

However, once configuration is complete in the Site Monitor application, as well as CathexisVision, the site monitor may be controlled remotely through Carbon 5.

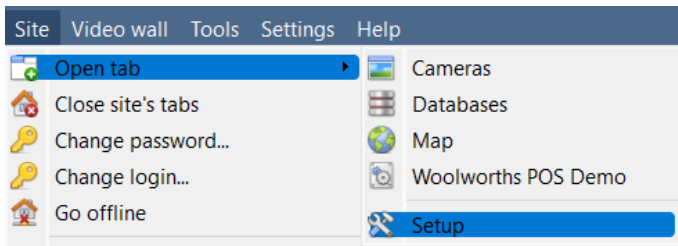
To set up site monitor control, follow this sequence:

1. Set up the site monitor in CathexisVision ([11.1](#)).
2. Set up the Site Monitor desktop application ([11.2](#)).
3. Control the site monitor from Carbon ([11.3](#)).

11.1 Set up Site Monitor in CathexisVision

Open CathexisVision server software.

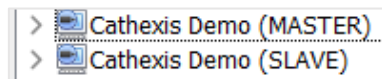
11.1.1 Navigate to Monitor Configuration



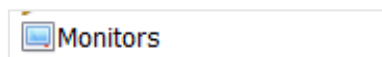
1. Follow the file path shown on the left (**Site / Open tab / Setup**).



2. Select the icon **Configuration icon**.



3. Choose a server from the list.

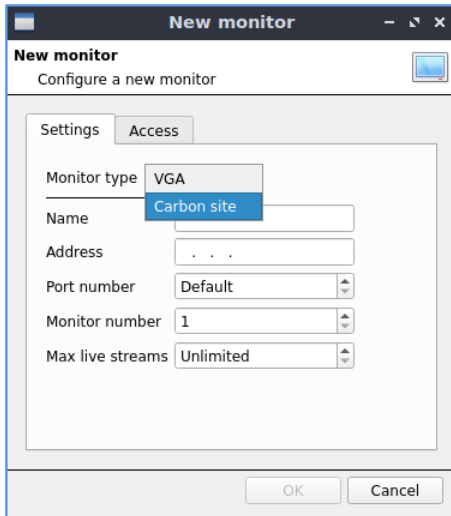


4. Select **Monitors** from the list.

11.1.2 Create New Monitor

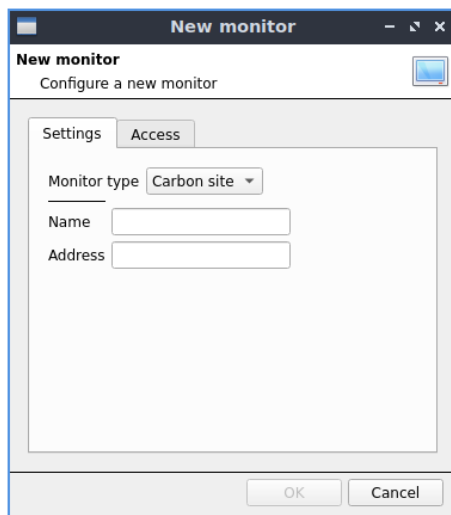


1. Select **New**.



2. In the new window, click the drop-down menu next to **Monitor type**.

3. Select **Carbon site**.



4. Enter a **name**.

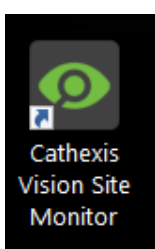
5. Enter the **IP address** of the server that will run the site monitor application.

6. Click **OK**.

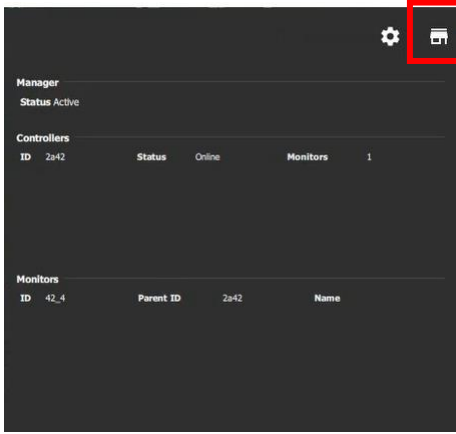
11.2 Site Monitor Manager: App Setup

Complete the setup using the desktop app.

11.2.1 Open the App Settings (CathexisVision Site Monitor)



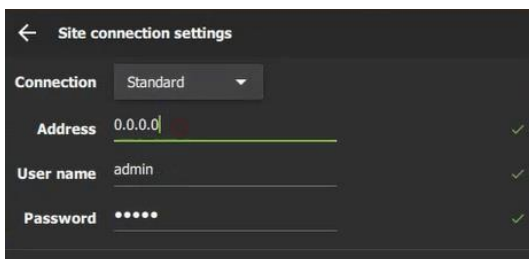
1. Double-click the CathexisVision site monitor **icon**.



The site monitor manager will open.

2. Click the **Site icon**.

11.2.2 Configure Site Monitor App



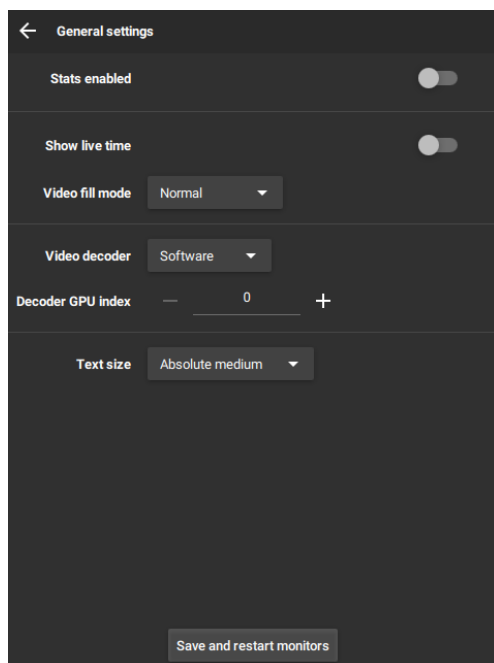
1. Choose a **connection type**.
2. Enter **IP address, user name, and password** of the site that this site monitor has been added to.
Note: The user must have access rights to view all the resources on the site.
3. Click **Save**.

11.2.3 Site Monitor Manager Settings

The settings on the site monitor manager are exclusively for site monitors that run on that PC. This may include the Carbon Site monitor.

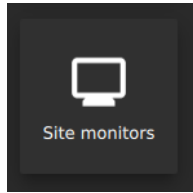


Click the **settings icon** in the Site Monitor standalone app to adjust settings.

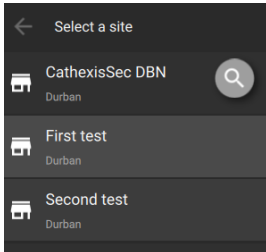


- Toggle the switch to enable or disable **Stats**.
- Toggle the switch to show or hide **live time**.
- Select **video fill mode**:
 - Normal
 - Crop to fit
 - Switch to fit
- Select **video decoder**:
 - Software
 - Nvidia
- Use the plus and minus buttons to adjust **GPU index**.
- Adjust the **text size**:
 - Absolute small/medium/large
 - Relative small/medium/large
- **Click the Save and restart monitors button.**

11.3 Controlling a Site Monitor from Carbon

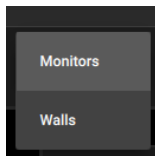


1. From the home menu, **click Site monitors** to open a new tab.

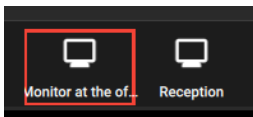


2. **Select a site** from the list on the left.

11.3.1 View Options

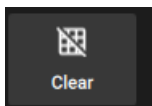


1. Use the drop-down menu to choose between viewing Monitors or Video Walls.

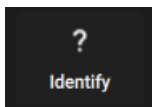


2. Click an available option to select a view.

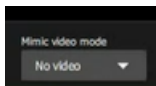
11.3.2 Monitors: Basic Live Streaming Control



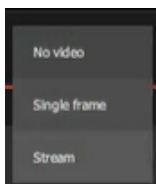
→ Click the **Clear** tool to remove cameras from the layout.



→ Click **Identify** to have each site monitor instance temporarily display its own name.



→ Click the Mimic video mode field to see a drop-down menu.



→ Choose a mode:

- No video
- Single frame
- Stream

- Once **adjacent cameras** are configured on the site, this feature can be used in the Site Monitors tab.
- For panels with PTZ cameras, a **PTZ control tool** is available. A menu will appear on the sidebar.
- Panels can be **maximised or restored** by double-clicking.
- In Review mode, a toolbar will open in the bottom of the monitor. This includes standard review tools such as play forward/backward, pause, calendar, and adjust speed.

11.3.3 Manage View (Camera Panels)

- The instructions below show how the panels can be managed, by:
 - Adding individual cameras manually
 - Using the auto layout tool to arrange multiple cameras
 - Opening an existing (saved) layout.
- Panel content may be swapped by dragging between panels in the monitor controller.

11.3.3.1 Change Template

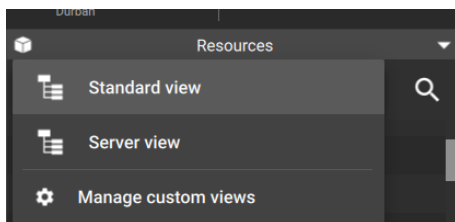


Click an image of a template to select.

Existing cameras/video will be placed accordingly.

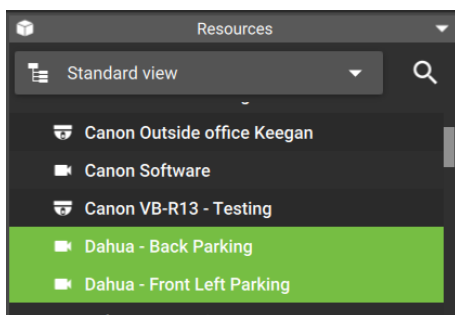
11.3.3.2 Add or Change Cameras (Resources)

Add or change video feeds.



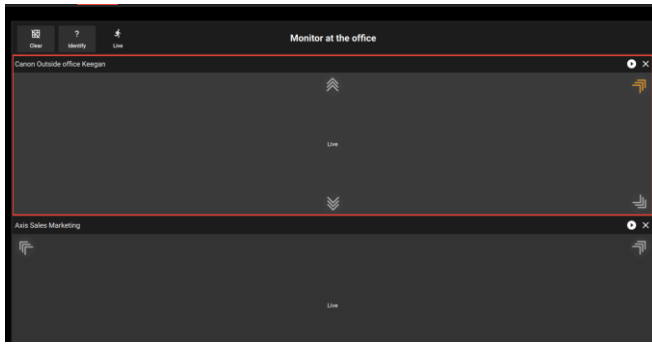
→ Click the **drop-down menu** within the Resources panel to see view options.

→ **Click an option** to select.



→ **Click one or more cameras** to select (use Ctrl to select more than one).

→ **Drop and drag** into the main section to place cameras.

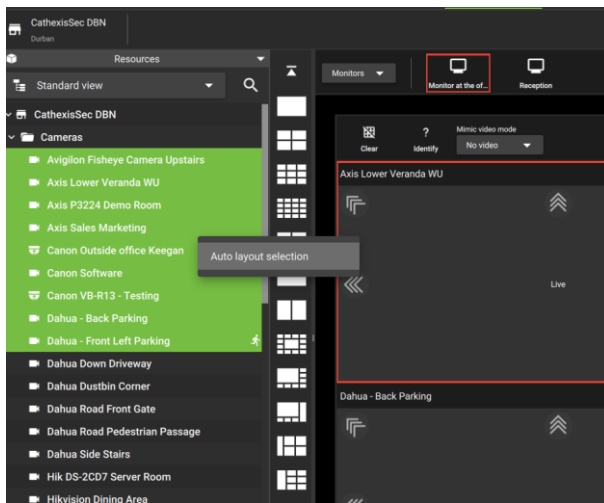


The cameras will show as text.

→ **Click to arrows** to use the adjacent camera tool.

This will change the camera to a nearby feed in the direction of the arrow.

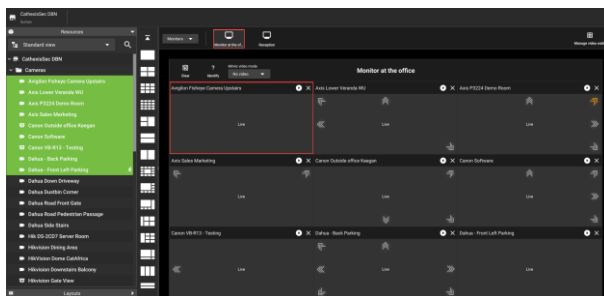
11.3.3.3 Add Multiple Cameras Using Auto Layout Selection



→ **Use Shift+click or Ctrl+click** to select multiple cameras from the Resources list.

→ **Right-click.**

→ Click **Auto layout selection.**



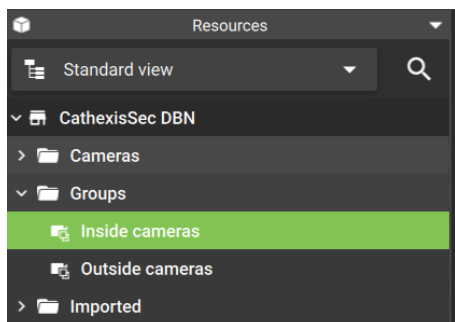
The cameras will be automatically arranged in the main panel.

11.3.3.4 Open a Camera Group

Camera groups can be created in the Resources section of the **Configuration tab.**



Camera groups are indicated by this icon.



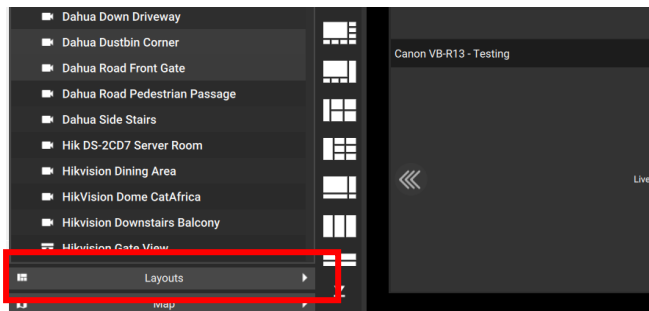
→ Navigate to the **Resources menu** in the side panel.

→ **Click the camera group** to select the camera group.

→ **Drag and drop** into the main panel, or, **right-click** and select Auto layout selection.

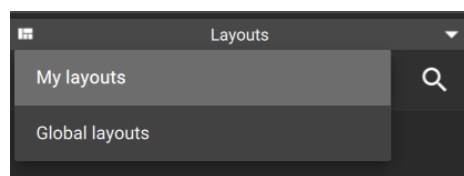
11.3.3.5 Open a Saved Layout in the Site Monitor

Layouts that have been created in the **Monitoring tab** can be selected and opened in the Site monitor.



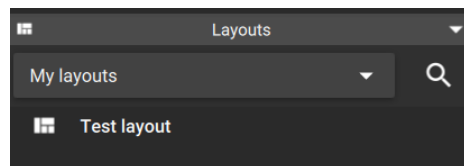
→ Click on **“Layouts”** on the bottom left of the Site monitor tab.

This will open the drawer.

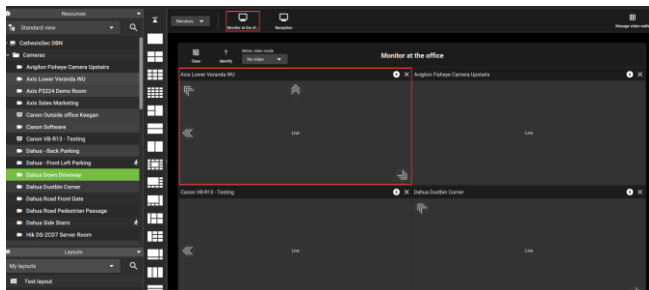


→ Click the **drop-down**.

→ Choose from **“My layout”** or **“Global layouts”**.

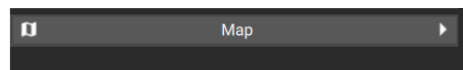


→ **Double-click** a saved layout to open in the monitor.



The test layout will open.

11.3.3.6 Open a Saved Map in the Site Monitor



→ Click on **“Map”** to open the drawer.

Available maps will appear in the panel below.



→ Identify a camera using the map. **Click and hold**.

→ **Drag and drop** into an available panel.

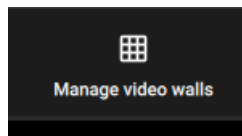
11.3.2 Manage Video Walls



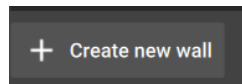
The Video Wall is intended to represent the arrangement of physical monitors. Content on these physical monitors can be changed by adding site monitors to the video wall.

An example of physical monitors is shown in the image alongside.

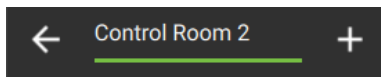
11.3.2.1 Create New Video Wall



→ Click on **Manage video walls** to open the video wall editor.



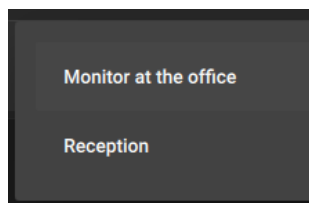
→ Click the **Create new wall** button to begin.



→ Enter a **name** into the text field.

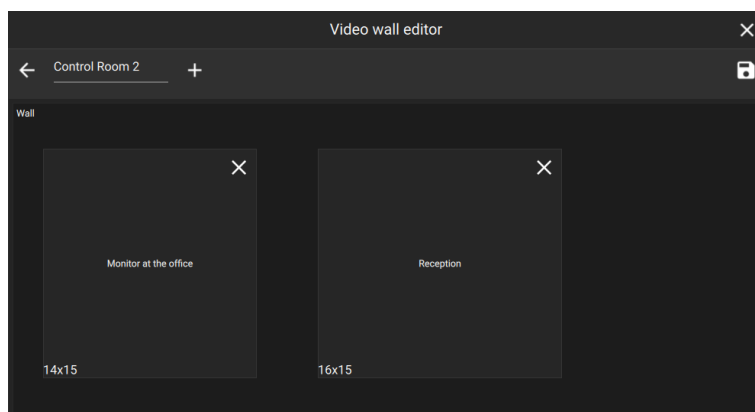


→ Click the **plus icon** to add site monitors to the wall.



→ **Choose an option** from the drop-down menu.

→ **Add additional** site monitors to the wall if desired.



The added site monitors will show in the main panel of the video monitor.



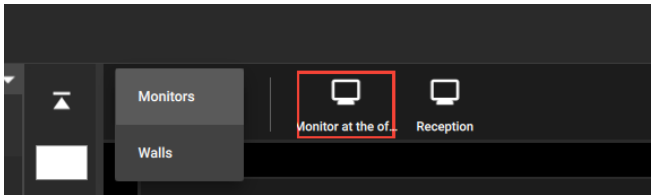
→ Click the **save icon** to save changes.



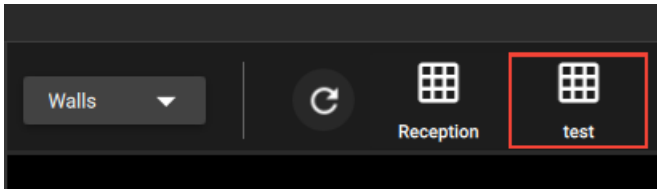
→ **To delete a wall**, return to the main video wall editor panel and click the trash icon.

11.3.2.2 View the Video Wall

Once a video wall has been created, it can be viewed in the main panel.



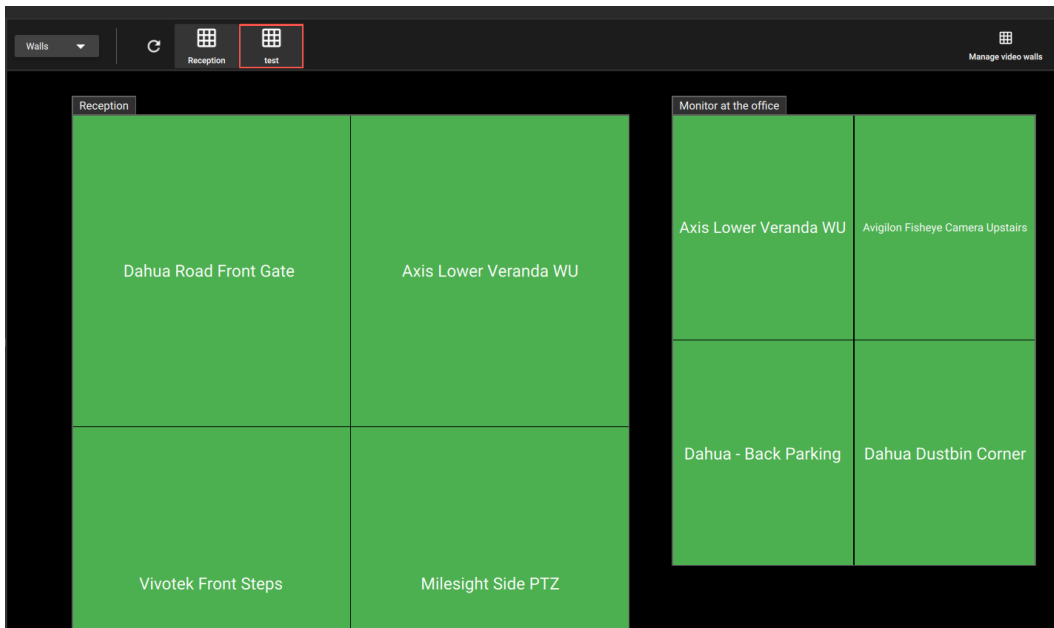
→ Click the **drop-down** menu near the top of the tab.



→ Select **Walls**.

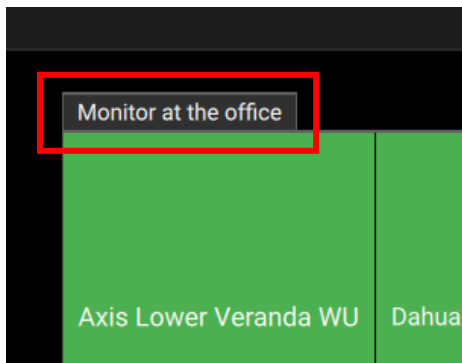
→ Select a wall by clicking the icon that represents it.

The wall will show in the main panel. Cameras on this virtual representation will display as text.



View Cameras: Quick Access to Single Monitor Control

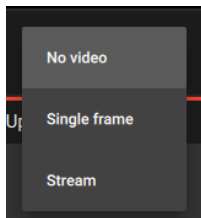
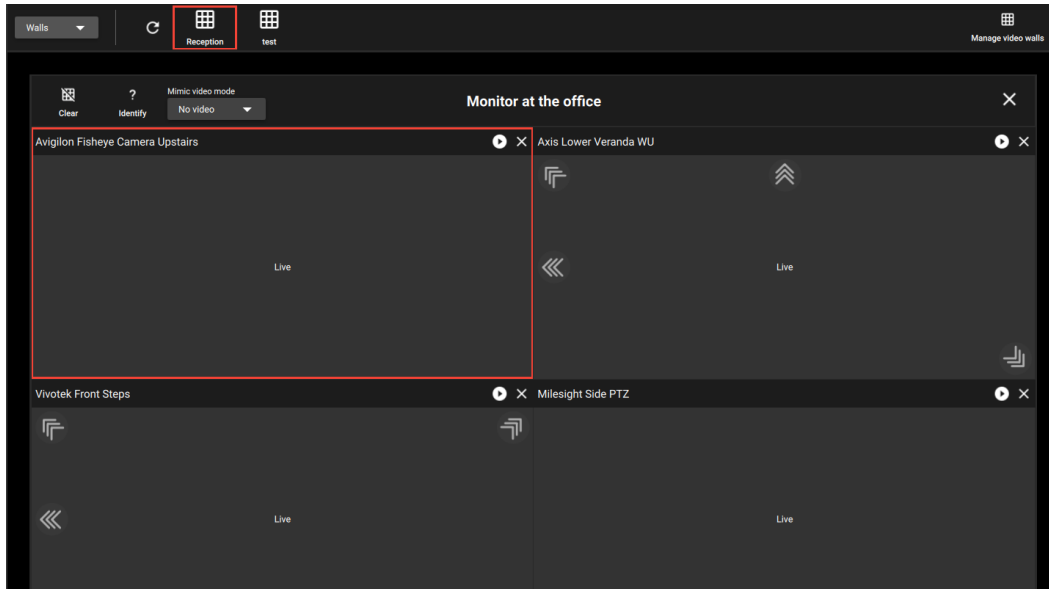
It is also possible to view the video feed if necessary.



→ Click the **label** to view videos.

This will provide quick access to the single monitor control without exiting wall mode.

The layout will open in the main panel.



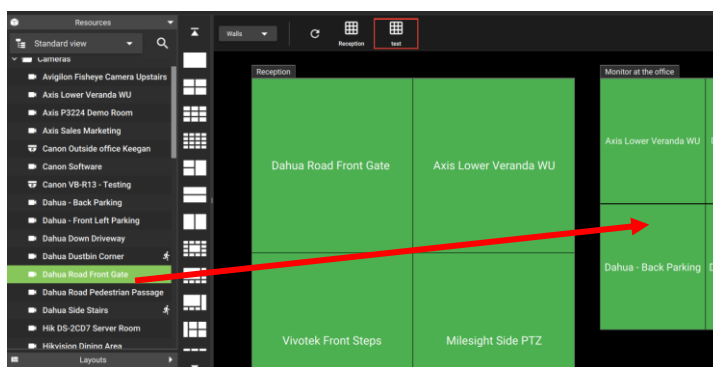
→ Click the mode field to show the drop-down. **Select Stream** to make the video visible.



→ Press the **cancel icon** to return to the main video wall screen.

11.3.2.3 Control a Site Monitor from the Video Wall

Add or Change a Site Monitor Camera



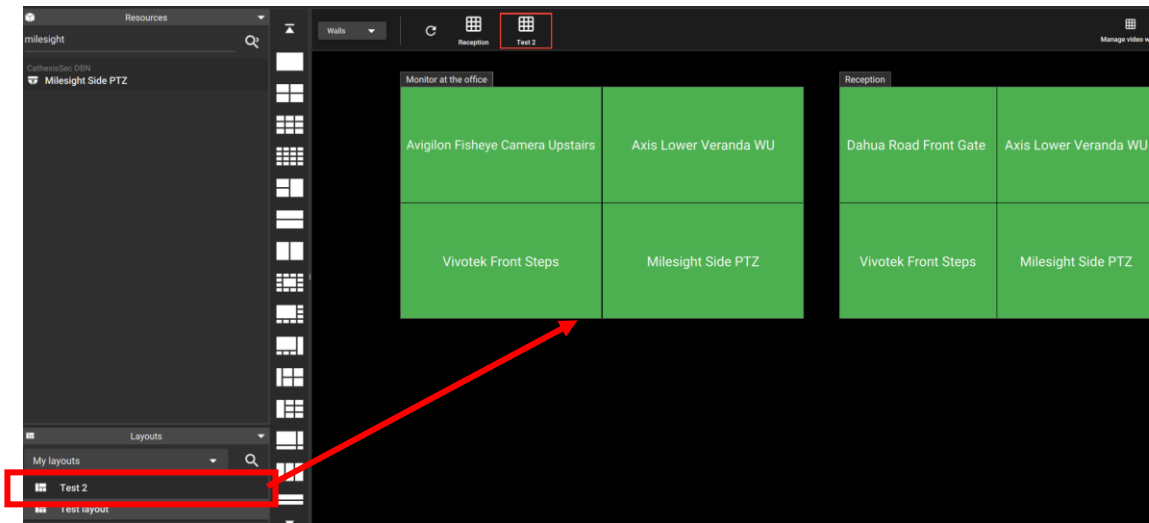
→ Click a camera in the **Resource panel** to select.

→ **Drag and drop** onto a display.

The selected camera will reflect in the display.

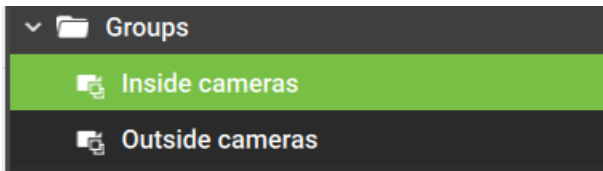
Copy a Layout into a Site Monitor

From the video wall, it is possible to make changes to the layout of a site monitor using a saved layout.

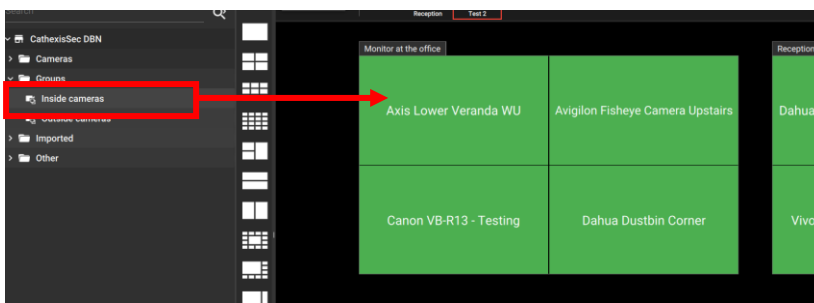


- **Select a layout** from the side panel.
- **Drag and drop** onto a site monitor.

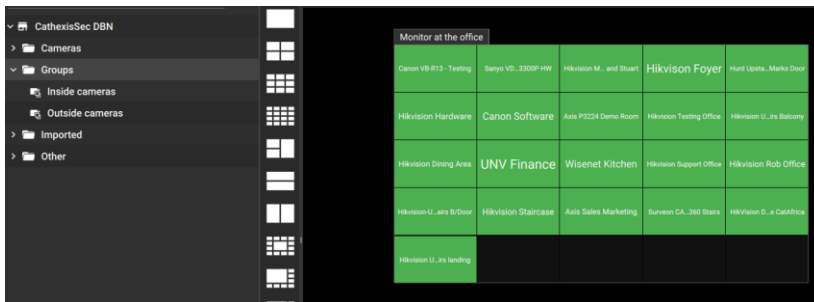
Add a Camera Group to the Site Monitor



→ **Select a camera group** from the sidebar.

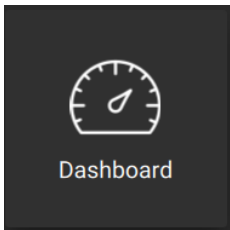


→ **Drag and drop** onto the wall, or, **right-click** and select Auto layout.



The camera group will be displayed on the wall.

12. Dashboard Tab (Enterprise Connections Only)



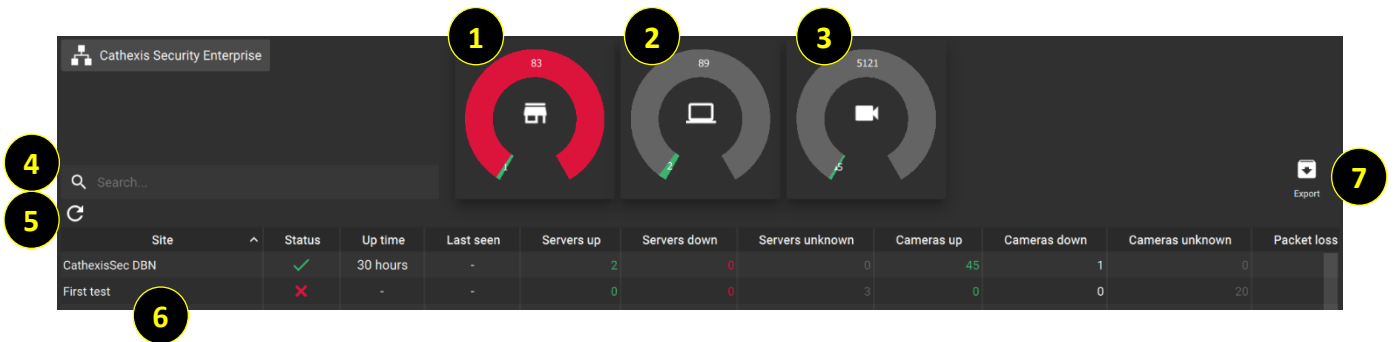
From the home menu, click the Dashboard icon to open a new Dashboard tab.

The Dashboard tab allows the user to view information about sites, servers, and cameras.

This tab allows the user to locate the time and place of a disconnected camera or server easily. The information can be used to search footage from the Monitoring tab around the time of the incident.

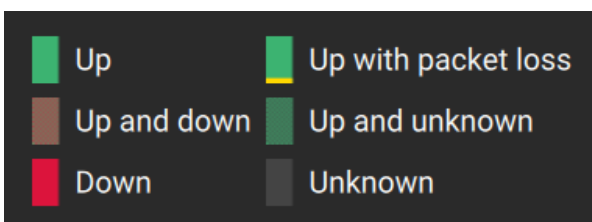
12.1 Health Information Display

Information is presented in a summary format. This is represented visually as well as in the table, as illustrated in the image below.



1	Sites: a graphical summary of the status of the sites.
2	Servers: a graphical summary of the status of all servers.
3	Cameras: a graphical summary of the status of all cameras.
4	Search
5	Refresh
6	Double-click a site name to open a summary of the last 24 hours (12.2).
7	Export (12.3)

The status of sites, servers, and cameras are represented using colours.



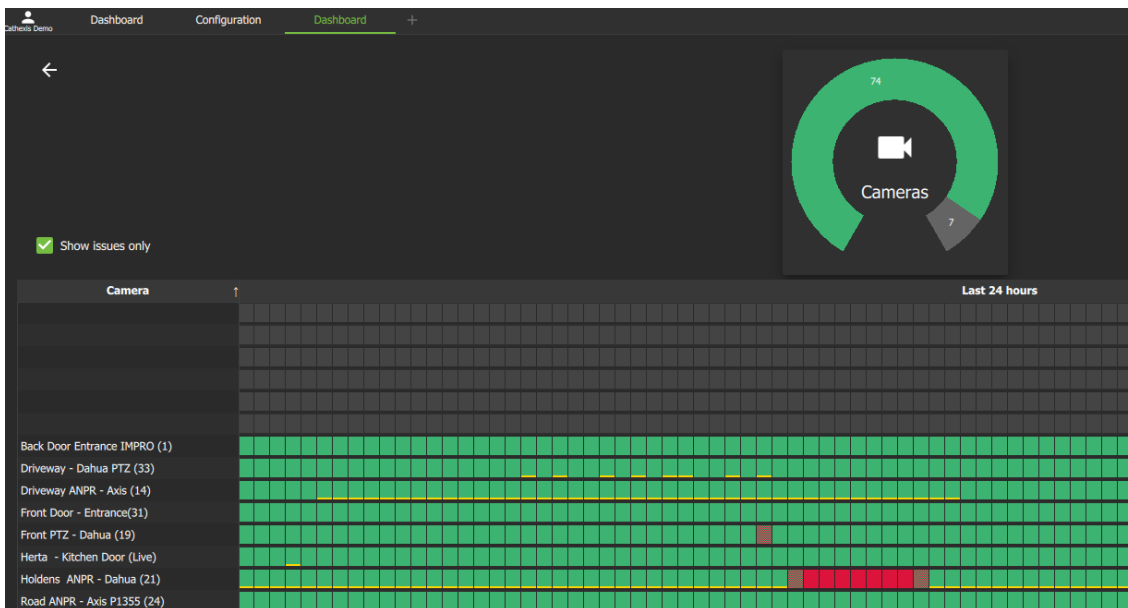
COLOUR	DESCRIPTION
Green	Indicates sites, servers, and cameras up.
Red	Indicates sites, servers, and cameras down.
Grey	Indicates status is unknown.
Yellow	Indicates packet loss on cameras.

12.2 View Site Information/Details

Site	Status
Cathexis Africa Centurion	✓
Cathexis Durban	✓
SiteName	✗

To view details about a specific site, **double-click a site name** on the list in the table.

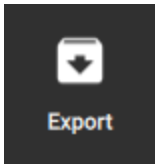
A more detailed screen will appear, as illustrated in the example below.



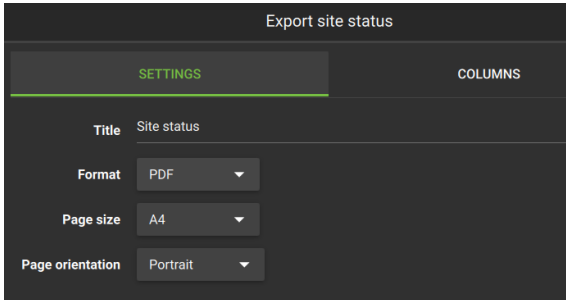
- The blocks arranged in **rows** represent camera status over **24 hours**.
- Each block represents a 15-minute segment.

12.3 Export Data Table

Information from the data table can be exported in a customised format.

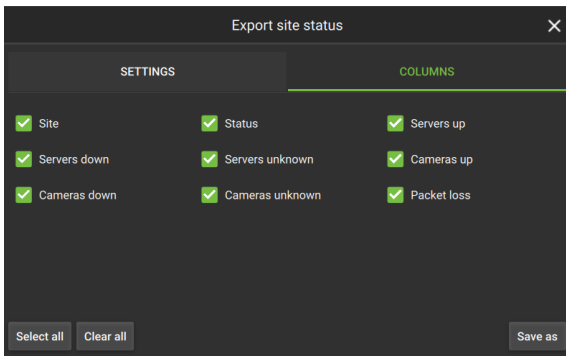


1. Click the **Export icon** to begin customising the report.
A new window will open. Here, configure the report Settings and Columns.



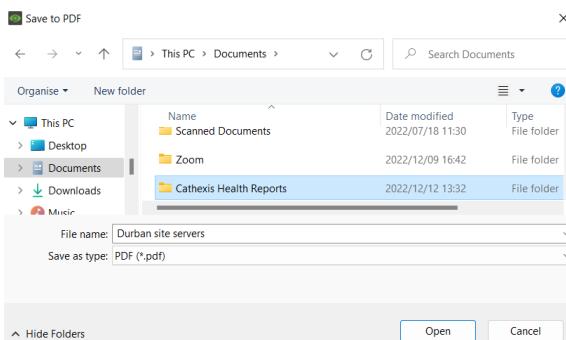
SETTINGS TAB

2. Click the **SETTINGS** tab to open if necessary.
3. Enter a suitable **Title** for the report.
4. Choose a **format**: PDF or CSV.
5. Choose the **page size**: A3 or A4.
6. Choose a **page orientation**: portrait or landscape.



COLUMNS TAB

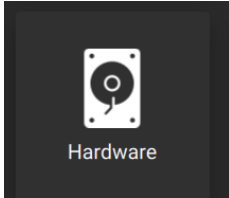
7. Click the **COLUMNS** tab to open.
8. **Check or uncheck** the columns which show on the table to control which information appears in the report.
9. Click **Save as**.



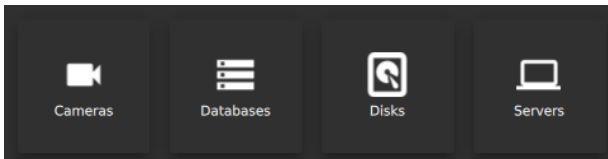
10. Open an appropriate **folder** on the computer.
11. Enter a descriptive **file name**.
12. Click **Save**.

13. Hardware Tab (Enterprise Connections Only)

The hardware tab allows the user to view specifications and addresses of cameras, and specifications and status of databases, disks and servers.



From the home menu, click the Hardware icon to open a new Hardware tab.

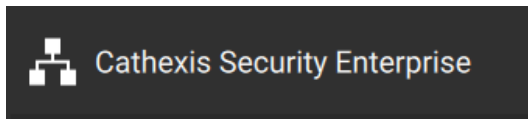


Detailed information about the following can be viewed: cameras, databases, disks and servers.

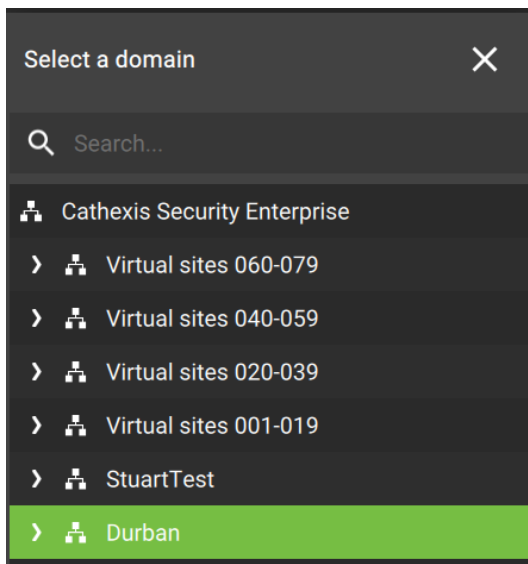
The Hardware Tab allows the user to search or filter the items shown in the main display, and then export this list.

13.1 Main Display

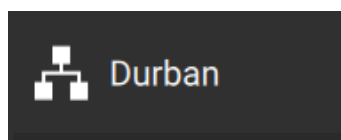
In the main display for Cameras, Databases, Disks or Servers, it is possible to view a **domain's hardware** (instead of the entire Enterprise installation).



→ Click on the Enterprise installation name.

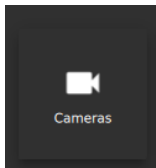


→ Select the desired domain from the list of domains.



That domain's hardware information will then be shown in the main display.

13.1.1 Cameras Tab (Hardware)



Click the **Cameras icon** from the Hardware menu.

All cameras are listed in the main panel as depicted below.

All cameras					
Site	Server	Manufacturer	Model	Firmware	Name
Cathexis Africa Centurion	WNVR -Centurion	Axis	AXIS M3046-V	6.15.4	Board Room Entrance
Cathexis Africa Centurion	WNVR -Centurion	Axis	AXIS P1405-LE	5.80.1.1	Training Room Entrance
Cathexis Africa Centurion	WNVR -Centurion	Cathexis	COBS2000		CathexisObserver
Cathexis Africa Centurion	WNVR -Centurion	Unv	IPC2122LR3-PF40M-D	IPC_D1202-B0002P13D1803	Component Storeroom
Cathexis Africa Centurion	WNVR -Centurion	Bosch	Unknown	06.11	Production
Cathexis Africa Centurion	WNVR -Centurion	Asus	Unknown	1.4	TopDown Counter Optical

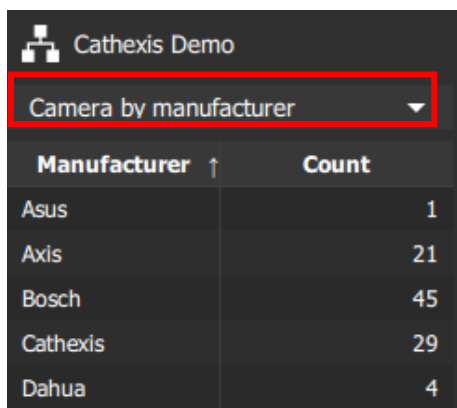
The display shows:

- Site name
- Server name
- Camera manufacturer
- Camera model
- Firmware
- Camera name
- Serial number
- MAC address

Note: For information about viewing or reviewing camera footage, see [4. Monitoring Tab](#).

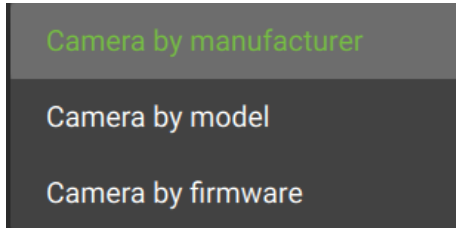
13.1.1.1 Change List Display: Sort by Category and Filter

It is possible to sort by categories. Sorting by category is a way of filtering the items in the main display. Once the main display has been organised, the list can be exported.



Click the drop-down menu on the left-hand side to change how the items are sorted in the panel beneath.

A drop-down menu will open.



Click the **desired option** to sort cameras in the panel beneath.

The available options are:

- Camera by manufacturer
- Camera by model
- Camera by firmware

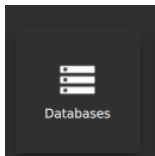
Manufacturer	Count
Avigilon	1
Axis	27
Canon	6
Dahua	10

Then, **select an item from the list** to filter results.

The items that fulfil the search criteria will display in the right-hand panel.

To generate a report based on the filtered list, see [13.3 Generate Reports](#).

13.1.2 Databases Tab (Hardware)



Click the Databases icon from the Hardware tab to see detailed information.

Databases are listed in the main panel as depicted below.

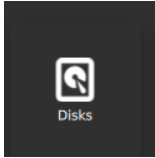
Name	Site	Server	Capacity	Tracks	Recording duration (days)	Status	Slices
ANPR RECDB	Cathexis Durban	Cathexis Demo	7.28 TB	4	26	Okay	3
CONTINUOUS RECDB	Cathexis Durban	Cathexis Demo	21.5 TB	25	30	Okay	7
Continuous Recording	Cathexis Durban	Cathexis Demo (SLAVE)	56.8 GB	1	22	Okay	1
DOORS CONTINUOUS RECDB	Cathexis Durban	Cathexis Demo	4.99 TB	5	23	Okay	3

The display shows:

- Name
- Site name
- Server
- Capacity
- Tracks
- Recording duration
- Status
- Slices

Note: For information about viewing the contents of the databases, see [5. Databases \(Main\) Tab](#).

13.1.3 Disks Tab



Click the **Disks tab** to see hardware information about disks.

Disks are listed in the main panel as depicted below.

Disks by manufacturer		Graph								
Manufacturer	Count	All disks								
		Health	Site	Server	Manufacturer	Model	Rotation	Capacity	Firmware	Serial number
Samsung	13									
Seagate	21	🟢	First test		Samsung	SSD 850 EVO	SSD	250 GB	RVS01B3M	S2Y77435554
Ts512gsdd230s	1	🟢	First test		Samsung	SSD 850 EVO	SSD	500 GB	RVS01B3M	S2Y19381717
Vbox	4	🟢	Second test		Samsung	SSD 850 EVO	SSD	500 GB	RVS01B3M	S2Y47122484
Western Digital	3	🟡	Third test		Samsung	SSD 850 EVO	SSD	500 GB	RVS01B3M	S2Y84682762
			First test		Samsung	SSD 850 EVO	SSD	500 GB	RVS01B3M	S2Y60668826

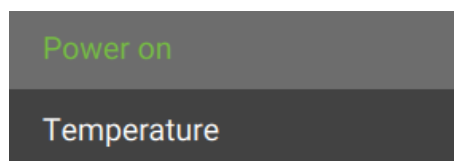
The display shows:

- Disk health
- Site
- Server
- Manufacturer
- Model
- Rotation
- Capacity
- Firmware
- Serial number
- Power-on years
- Temperature

13.1.3.1 Graph

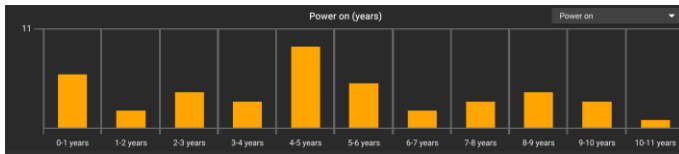


→ Click on the Graph heading to expand.



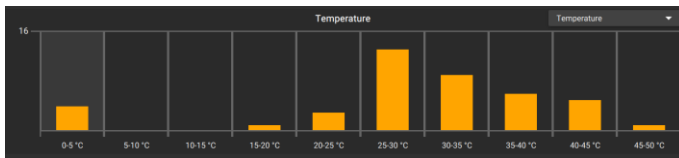
→ It is possible to view graphs depicting **Power on** or **Temperature**.

Power On



The unit of measurement in the **Power on** graph is in years.

Temperature



The unit of measurement in the **Temperature** graph is degrees Celcius.

13.1.3.2 Change List Display: Sort by Category and Filter

It is possible to sort by categories. Sorting by category is a way of filtering the items in the main display. Once the main display has been organised, the list can be exported.

Manufacturer	Count
Samsung	13
Seagate	21
Ts512gssd230s	1
Vbox	4
Western Digital	3

Click the drop-down menu on the left-hand side to change how the items are sorted in the panel beneath.

A drop-down menu will open.

- Disks by manufacturer
- Disks by model
- Disks by firmware

Click the desired option to sort cameras in the panel beneath.

The available options are:

- Disks by manufacturer
- Disks by model
- Disks by firmware

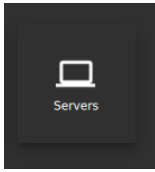
Manufacturer	Count
Samsung	13
Seagate	21
Ts512gssd230s	1
Vbox	4

Then, **select an item from the list** to filter results.

The items that fulfil the search criteria will display in the right-hand panel.

To generate a report based on the filtered list, see [13.3 Generate Reports](#).

13.1.4 Servers Tab



Click the Servers tab to see hardware information.

Servers are listed in the main panel as depicted below.

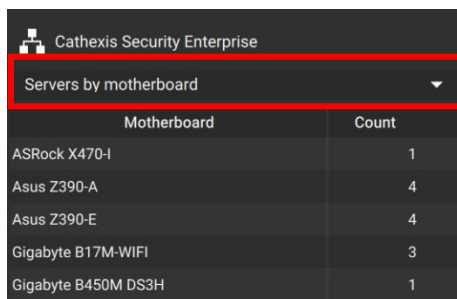
Servers			
Site	Server	Machine	Network interfaces
Cathexis Africa Centurion	WNVR -Centurion	CATHEXIS0SERVER	[0]:192.168.42.201, [1]:0.0.0.0
Cathexis Durban	Cathexis Demo (SLAVE)	DEMOROOMSLAVE	[0]:192.168.0.4,192.168.1.180, [1]:192.168.34.42
Cathexis Durban	Cathexis Demo	DEMOMASTERSERVE	[0]:0.0.0.0, [1]:169.254.137.136, [2]:192.168.34.40, [3]:192.168.1.181

The panel displays:

- Site
- Server
- Machine
- Network interfaces
- Motherboard
- CPU
- CPU speed
- Memory
- Serial number
- IO board
- OS family
- OS version
- SW version
- Site role
- Time
- Time zone
- Master time difference
- Enterprise time difference

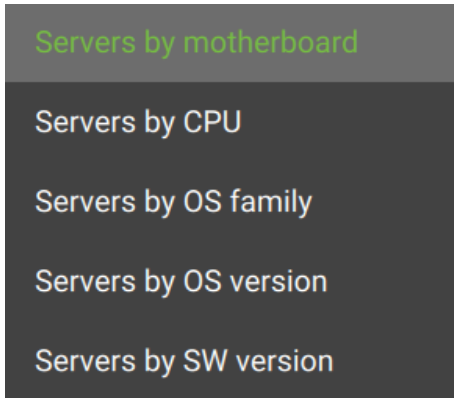
13.1.4.1 Change List Display: Sort by Category and Filter

It is possible to sort by categories. Sorting by category is a way of filtering the items in the main display. Once the main display has been organised, the list can be exported.



Click the drop-down menu on the left-hand side to change how the items are sorted in the panel beneath.

A drop-down menu will open.



Click the desired option to sort cameras in the panel beneath.

The available options are:

- Servers by motherboard
- Servers by CPU
- Servers by OS family
- Servers by OS version
- Servers by SW version

Motherboard	Count
ASRock X470-I	1
Asus Z390-A	4
Asus Z390-E	4
Gigabyte B17M-WIFI	3
Gigabyte B450M DS3H	1
Gigabyte H97N-WIFI	3

Then, select an item from the list to filter results.

The items that fulfil the search criteria will display in the right-hand panel.

To generate a report based on the filtered list, see [13.3 Generate Reports](#).

13.2 Change List Display: Sort by Category

From the cameras, disks, and servers tab, it is possible to sort by categories. Sorting by category is a way of filtering the items in the main display. Once the main display has been organised, the list can be exported.

As outlined above:

1. Click the drop-down menu on the left-hand side to change how the items are sorted in the panel beneath.
A drop-down menu will open.
2. Click the desired option to sort cameras in the panel beneath.
3. Then, select an item from the list to filter results.

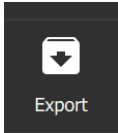
Manufacturer ↑	Count	Site ↑	Server
Asus	1	Cathexis Durban	Cathexis Demo
Axis	21	Cathexis Durban	Cathexis Demo
Bosch	2	Cathexis Durban	Cathexis Demo
Cathexis	26	Cathexis Durban	Cathexis Demo
Dahua	4		
Generic	2		
HikVision	11		
Unv	1		
Vivotek	3		

In the example on the left, cameras are sorted by manufacturer. Dahua is selected.

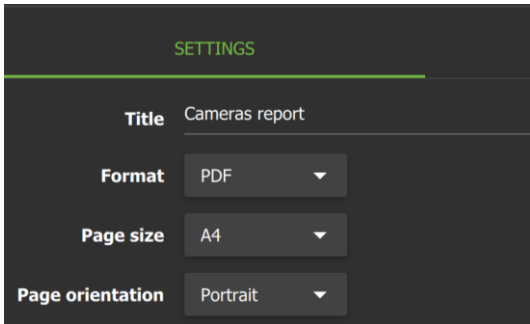
The items that fulfil the search criteria are shown in the right-hand panel.

13.3 Generate Reports

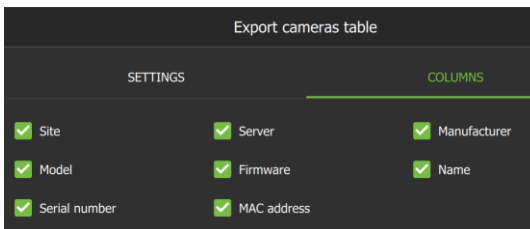
To generate a report, first conduct a search and create a list in the main display. This is the table which will be exported.



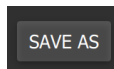
1. Click the **Export icon** in any of the tabs to generate a report.



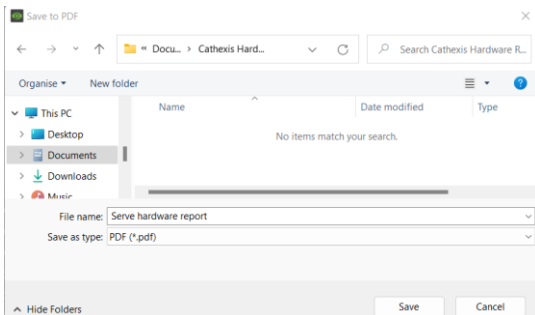
2. Select the **SETTINGS** tab.
3. Enter a suitable title for the report.
4. Select from PDF or CSV **formats**.
5. Select **Page size** from A3 or A4.
6. Select **Page orientation** from portrait or landscape.



7. Select the **COLUMNS** tab.
8. Check or uncheck items to display in the report.



9. Click the **SAVE AS** button to confirm both settings and columns, and to **export**.



10. Choose a suitable save folder and **file name**.

11. Click **Save**.

14. Monitors Tab (MultiSite and Enterprise Connections)

The Monitors feature allows for monitors to be added to Enterprise or MultiSite domains.

The **CathexisVision Carbon Monitor** (also known as the Video Wall Manager) is a separate desktop application.

To add and set up a monitor, follow these steps. If the monitor has already been added, jump to Step 4.

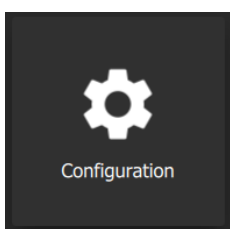
1. Add the monitor as a resource and receive/copy the token (in the Configuration tab). ([14.1.1](#))
2. Open the CathexisVision Carbon Monitor desktop app (also known as the Video Wall Manager) to add the token and create a new monitor ([14.1.2](#)).
3. Set monitor permissions in the Configuration tab ([14.2](#)).
4. Configure the new monitor in the Monitors tab ([14.3](#)).

To add and configure a Video Wall, follow the steps outlined in [14.4](#).

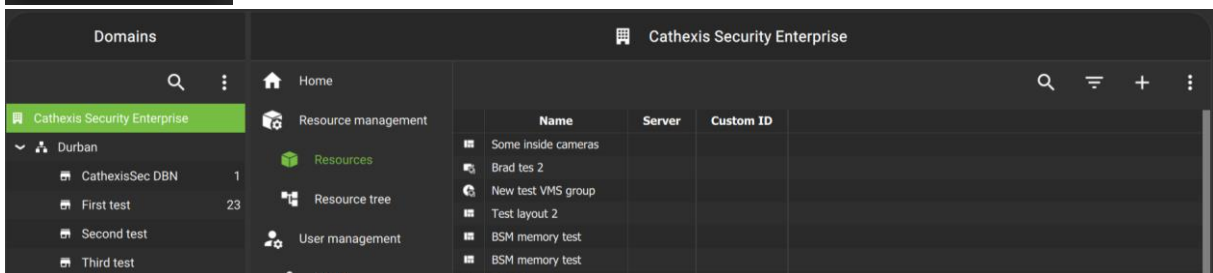
14.1 Add New Monitor

When a monitor is added, a user needs to be set for the monitor ([14.1.1](#)) to determine what resources that monitor can access. Then, the administrator needs to set permissions for the users that might need to view or control that monitor ([14.2](#)).

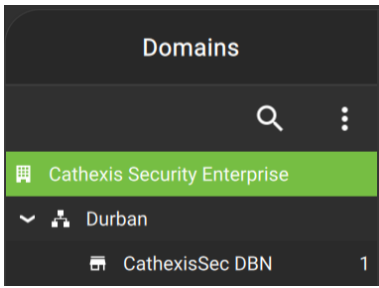
14.1.1 Carbon Configuration Tab: Add Monitor as a Resource



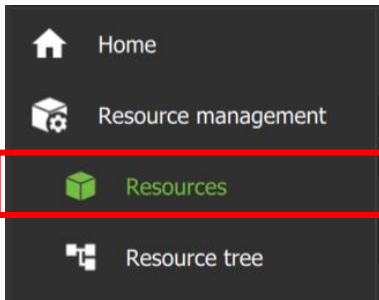
→ Open the Configuration tab.



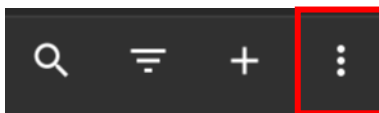
A monitor can be added to the **root domain** or a **sub-domain**.



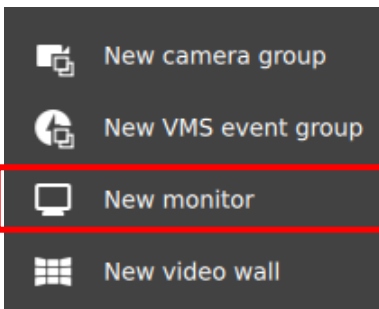
→ Select the **domain** to which the monitor will be added. In this example, the root domain has been selected.



→ Select **Resources** in the middle panel menu.

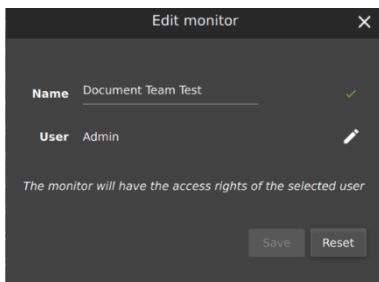


→ In the configuration panel, click the menu icon.




→ Select **New monitor**.

The **Add monitor** window will open.

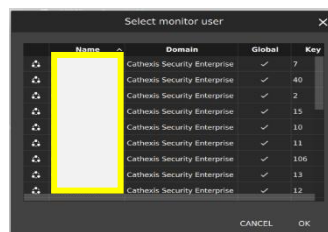


→ Enter the name of the monitor.

→ To set a user for the monitor, click anywhere in the User field, or click the edit icon.

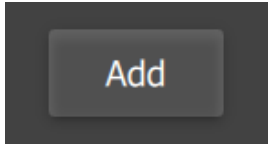
 The user set for the monitor will determine the permissions the monitor will use when connecting to the Enterprise. The monitor will only be able to display resources that are available with that user’s permissions.

For example: A retail manager might want a monitor on the shop floor that is visible to the public. In this case, they could set up a user for the monitor that is only able to stream cameras on the shop floor, not office cameras.



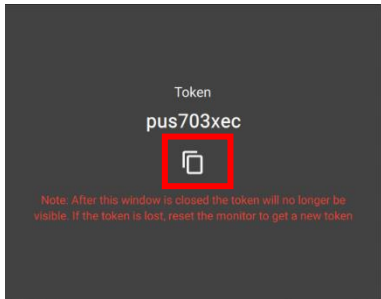
→ Select the user and then click **OK**.

(Note: In the example, user names have been redacted.)



→ Click **Add**.

The token will be displayed.



→ Click the **copy icon** to copy the unique token.

The token must be added to the CathexisVision Carbon Monitor desktop app ([14.1.2](#)).

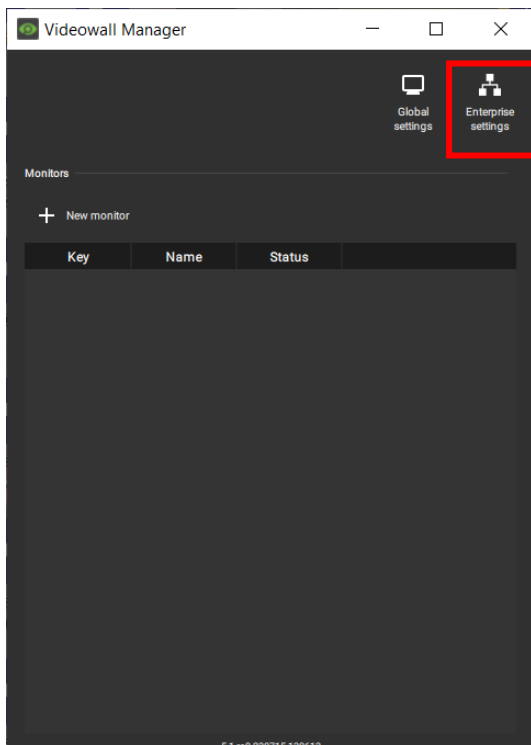
14.1.2 Open CathexisVision Carbon Monitor Desktop App



→ Double-click the CathexisVision Carbon Monitor desktop icon.

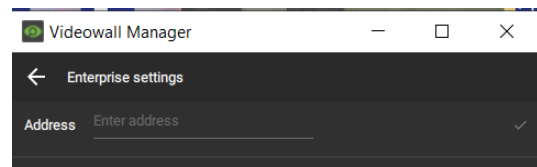


The icon in the taskbar indicates that the CathexisVision Carbon Monitor app is open. (**Note:** To return to the Videowall Manager at any time, click this icon in the taskbar.)

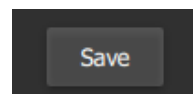


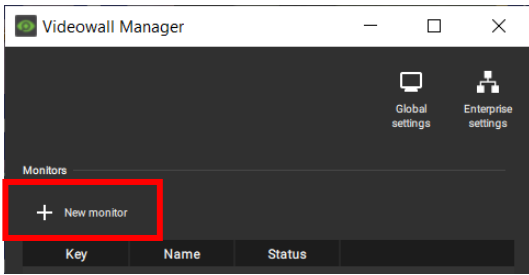
→ Select **Enterprise settings**.

→ Enter the IP address of the Enterprise server.



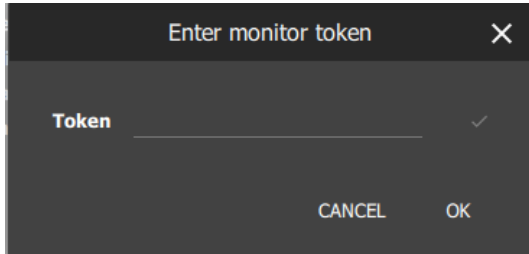
→ Once the IP address has been entered, click **Save**.





→ Select **New monitor**.

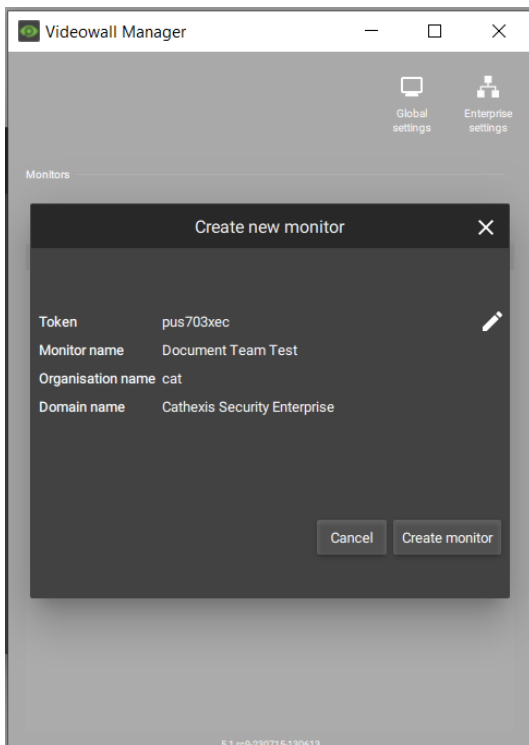
The “Create new monitor” window will open.



First, a prompt for the monitor token will appear.

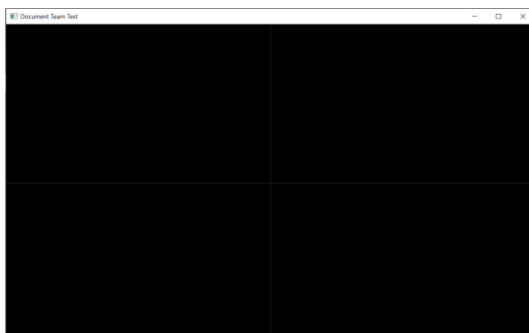
→ Paste the monitor token in the field.

→ Click **OK**.



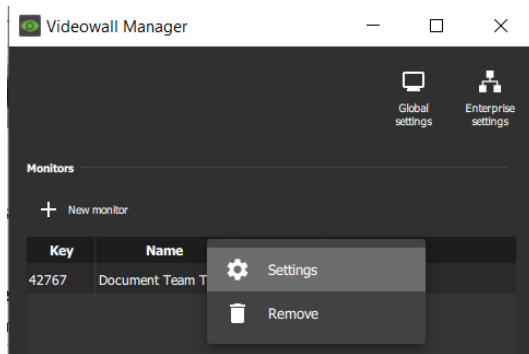
In the “Create new monitor” window, the other fields will fill automatically once the token has been added.

→ Click **Create monitor**.

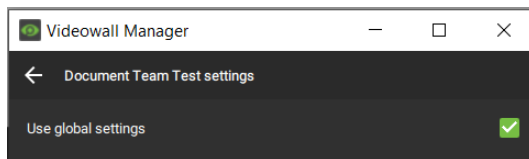


The new monitor will open, ready to be configured in Carbon.

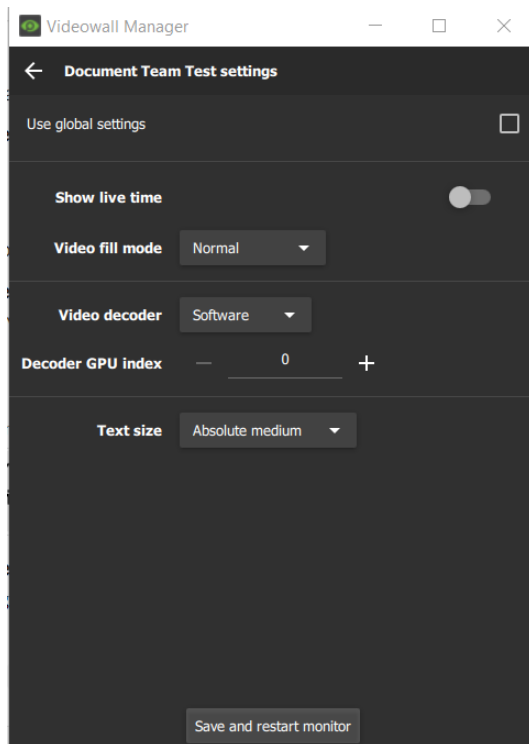
14.1.2.1 Monitor Settings



- To change the monitor settings, right-click the monitor name.
- Click **Settings**.



- To configure the settings for the selected monitor, de-select “Use global settings”.



Show live time Toggle this option to show the live time on the monitor.

Video fill mode Choose from the following video fill modes:

- Normal
- Crop to fit
- Stretch to fit

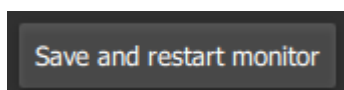
Video decoder Select a video decoder:

- Software (CathexisVision)
- Nvidia

Decoder GPU index This refers to the graphics card used for decoding video. For example, if using more than one Nvidia card, specify that Monitor 1 uses card 1, and Monitor 2 uses card 2. The **Decoder GPU index** refers to the card number.

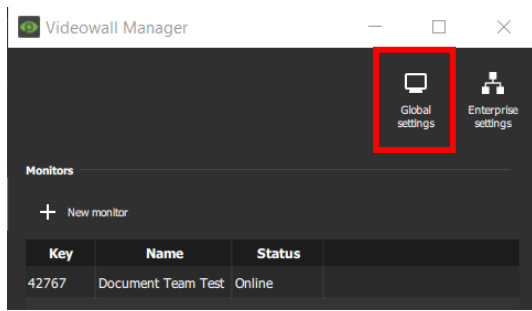
Text size Select one of the text sizes:

- Absolute small
- Absolute medium
- Absolute large
- Relative small
- Relative medium
- Relative large

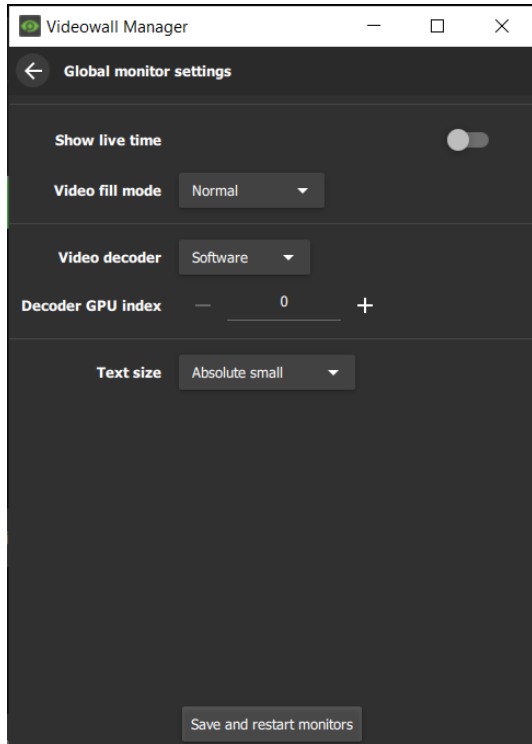


- Once the settings have been entered, click **Save and restart monitor**.

14.1.2.2 Global Settings

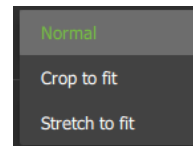


→ To configure global (default) monitor settings, click **Global settings**.



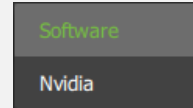
Show live time Toggle this option to show the live time on the monitor.

Video fill mode Choose from the following video fill modes:



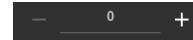
- Normal
- Cropt to fit
- Stretch to fit

Video decoder Select a video decoder:

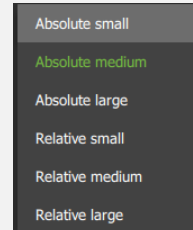


- Software (CathexisVision)
- Nvidia

Decoder GPU index This refers to the graphics card used for decoding video. For example, if using more than one Nvidia card, specify that Monitor 1 uses card 1, and Monitor 2 uses card 2. The **Decoder GPU index** refers to the card number.



Text size Select one of the text sizes:



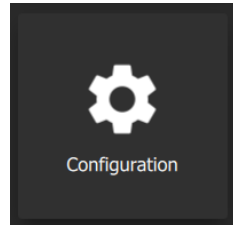
- Absolute small
- Absolute medium
- Absolute large
- Relative small
- Relative medium
- Relative large

Note: Each monitor can be configured individually to override the global monitor settings.

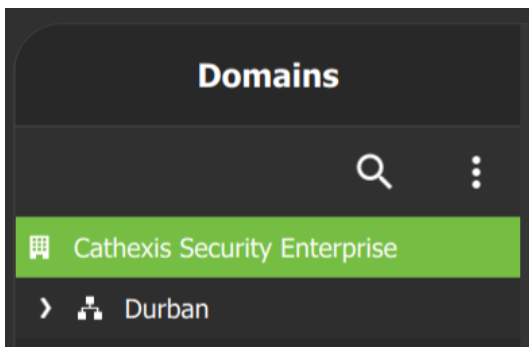
Once the new monitor has been added, configure its settings in Carbon ([14.2](#)).

14.2 Set User Permissions in Carbon

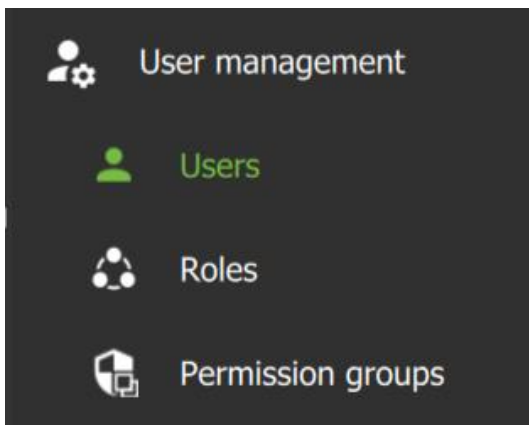
Return to Carbon to set permissions for user/s who will view or control the new monitor.



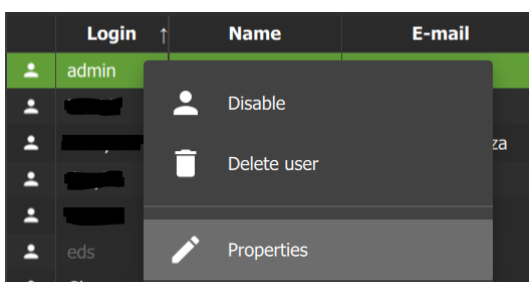
→ From the home menu, click **Configuration** to open a new tab.



→ Select the domain to which the new monitor has been added.



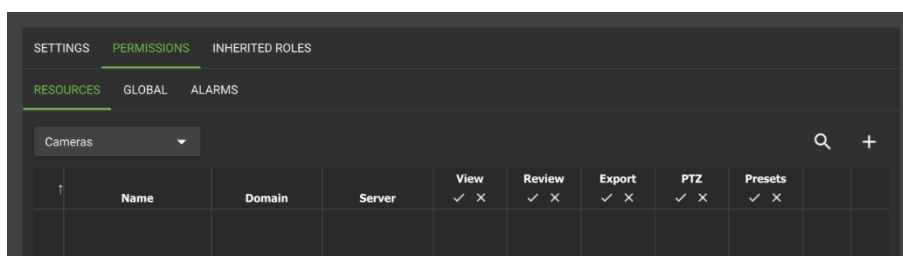
→ In the menu panel, click **Users**.



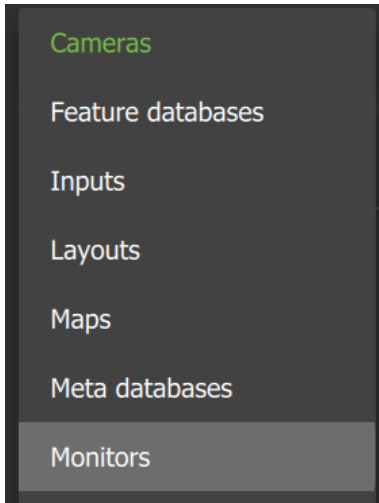
→ In the configuration panel, right-click the User to which the new monitor has been assigned.

→ Select **Properties**.

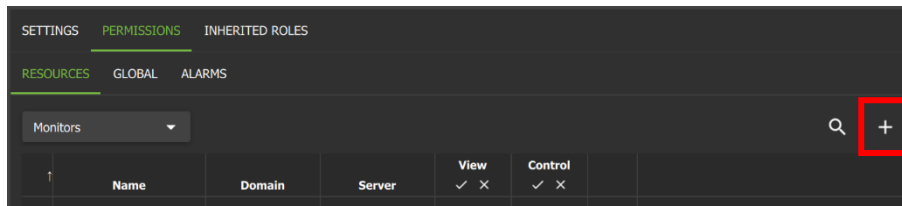
The User configuration window will open.



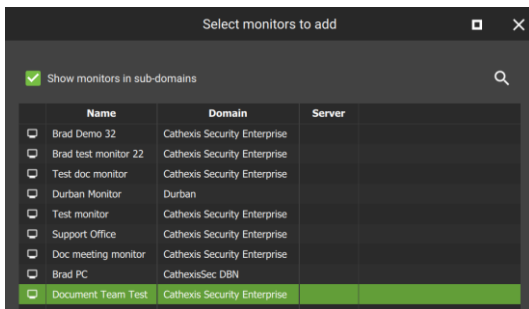
→ Click on the **Permissions** tab and select **Resources**.



→ Select **Monitors** in the resource type drop-down menu.

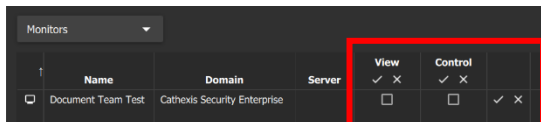


→ Click the **plus icon**.



→ Select the new monitor.

→ Click **OK**.



→ Assign permissions to the monitor.



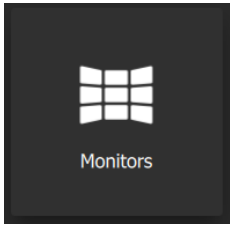
To select all permissions, click the **tick icon**.



To clear all permissions, click the **cross icon**.

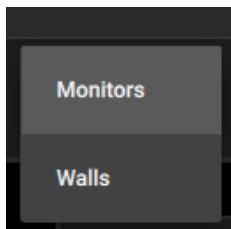
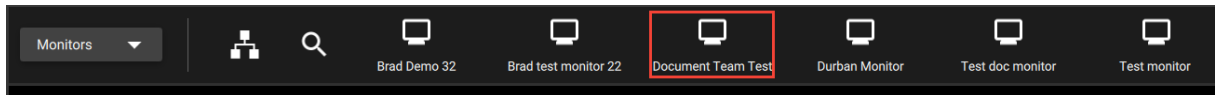
After setting the monitor permissions, configure the new monitor in the Monitors tab ([14.3](#)).

14.3 Set Up and Control Monitor in Monitors Tab



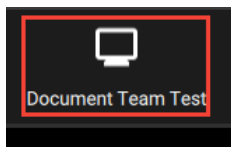
→ From the home menu, click **Monitors** to open a new tab.

14.3.1 View Options



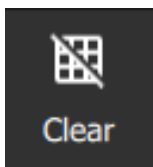
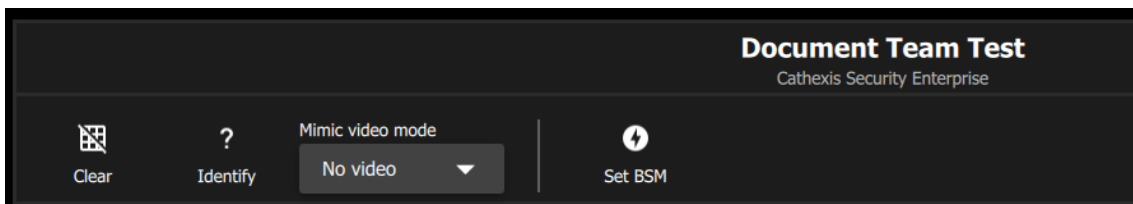
→ Use the drop-down menu to choose between viewing Monitors or Video Walls.

Select **Monitors**.

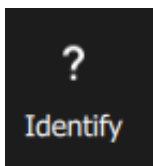


→ Click an available option to select a monitor view.

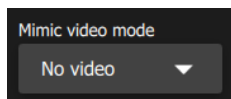
14.3.2 Options: Basic Live Streaming Control



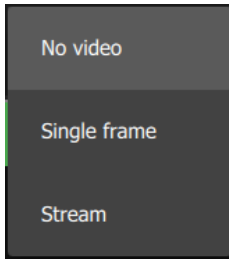
→ Click the **Clear** tool to remove cameras from the panel.



→ Click **Identify** to have each monitor instance temporarily display its own name.



→ Click the **Mimic video mode** field to see a drop-down menu. (**Note:** The mimic video mode has no impact on what the monitor being controlled is doing. This mode simply gives the operate an idea of what live cameras on the monitor are displaying.)



- Choose a mode:
- No video
 - Single frame
 - Stream

- Panels in the Monitors tab can be **maximised or restored** by double-clicking.

14.3.3 Manage View (Camera Panels)

- The instructions below show how the panels can be managed, by:
 - Adding individual cameras manually
 - Using the auto layout tool to arrange multiple cameras
 - Opening an existing (saved) layout.
- Panel content may be swapped by dragging between panels in the monitor controller.

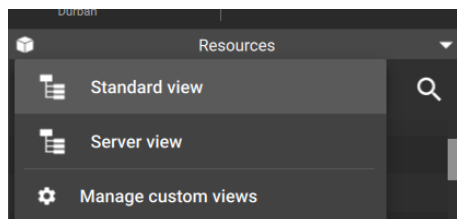
14.3.3.1 Change Template



Click a template to select it.

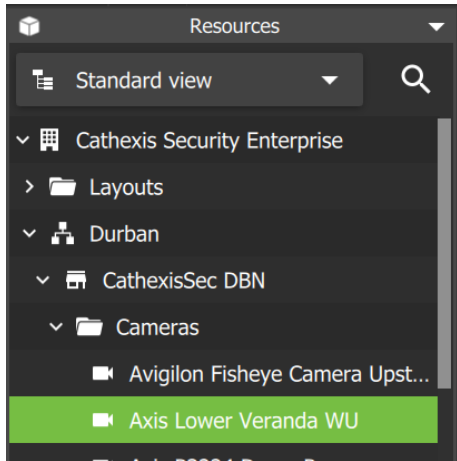
14.3.3.2 Add or Change Cameras (Resources)

Add or change video feeds.

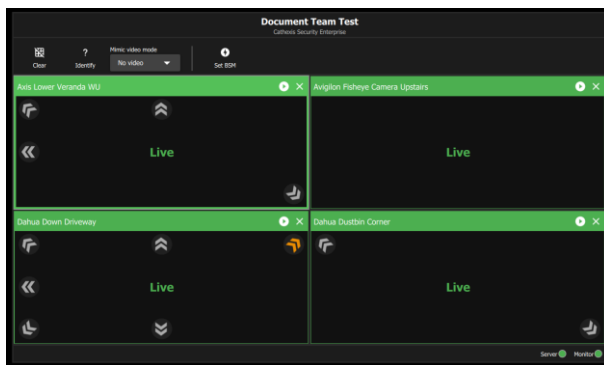


→ Click the **drop-down menu** within the Resources panel to see view options.

→ **Click an option** to select.



→ **Drag and drop** into the main section to place individual cameras.

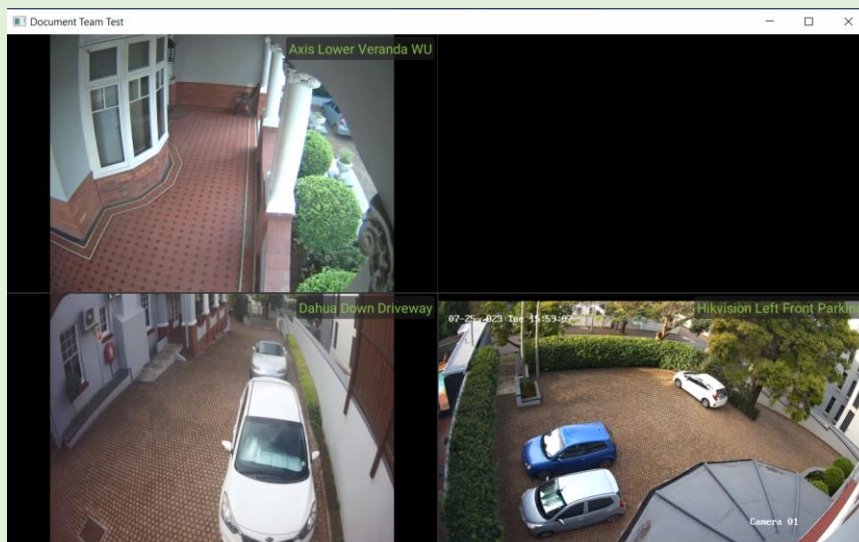
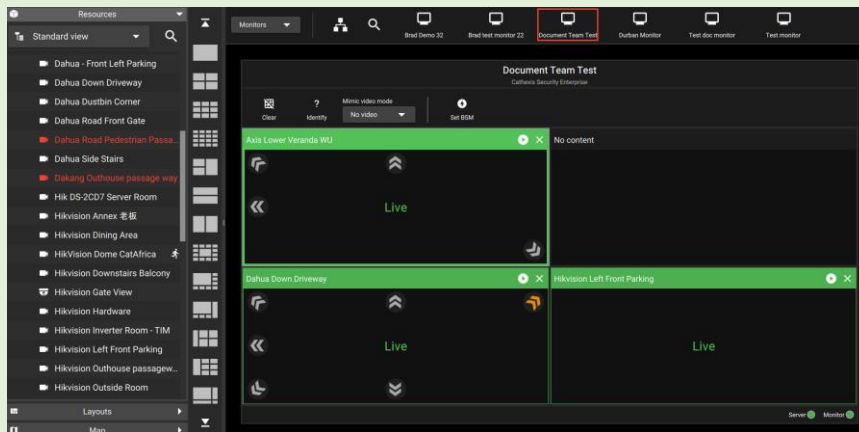


The cameras will show as text.

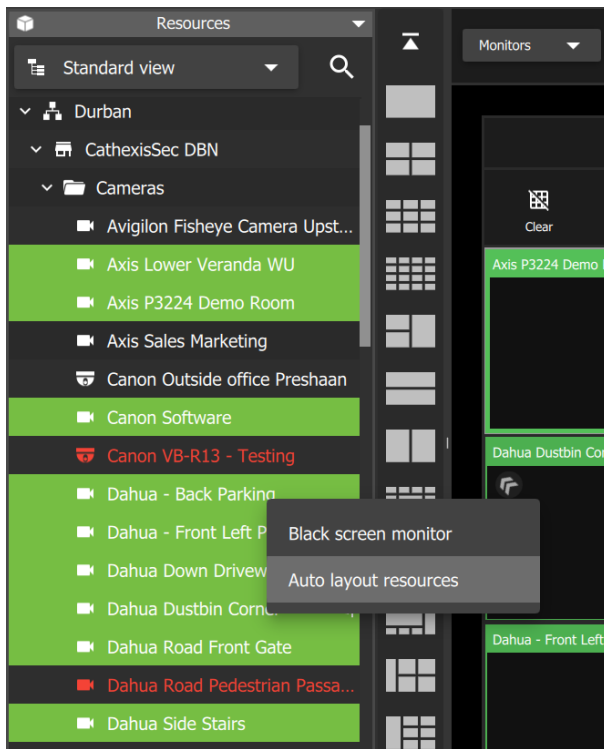
→ **Click to arrows** to use the adjacent camera tool.

This will change the camera to a nearby feed in the direction of the arrow.

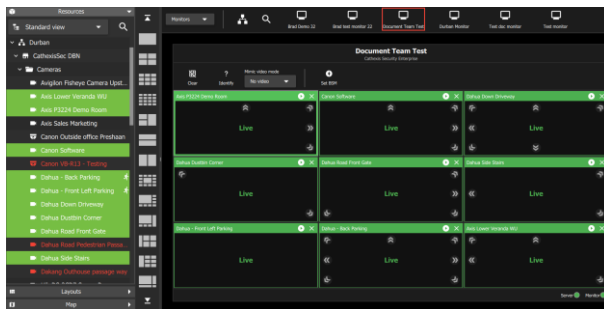
Comparison: Populating the panel in the Monitors Tab and the Carbon Monitor window



14.3.3.3 Add Multiple Cameras Using Auto Layout Selection



- Use **Shift+click** or **Ctrl+click** to select multiple cameras from the Resources list.
- **Right-click**.
- Click **Auto layout resources**.



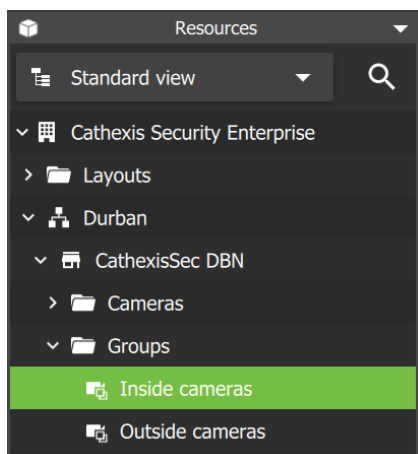
The cameras will be automatically arranged in the main panel.

14.3.3.4 Open a Camera Group

Camera groups can be created in the Resources section of the **Configuration tab**.



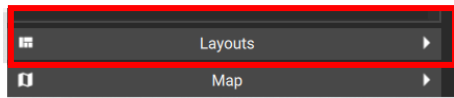
Camera groups are indicated by this icon.



- Navigate to the **Resources menu** in the side panel.
- **Click the camera group** to select the camera group.
- Drag and drop into the main panel, or, right-click and select **Auto layout resources**.

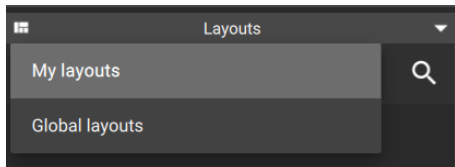
14.3.3.5 Open a Saved Layout

Layouts that have been created in the **Monitoring** tab can be selected and opened in the **Monitors** tab.



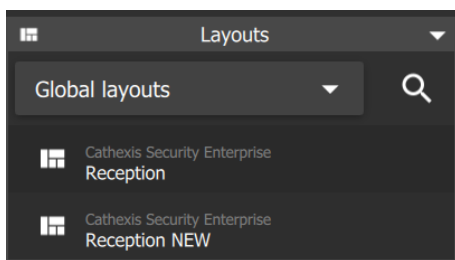
→ Click on **“Layouts”** on the bottom left of the Monitors tab.

This will open the drawer.

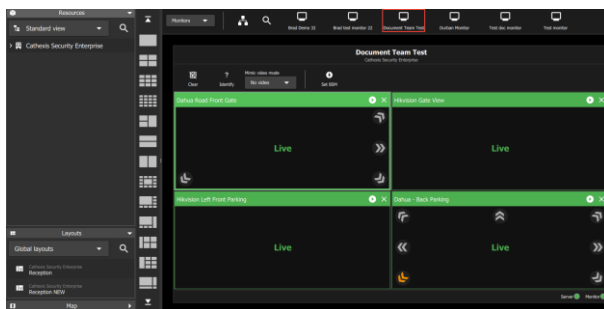


→ Click the **drop-down**.

→ Choose from **“My layout”** or **“Global layouts”**.

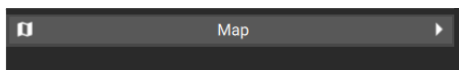


→ **Double-click** a saved layout to open in the monitor.



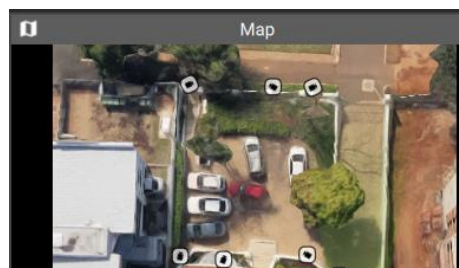
The selected layout will open.

14.3.3.6 Open a Saved Map



→ Click on **“Map”** to open the drawer.

Available maps will appear in the panel below.



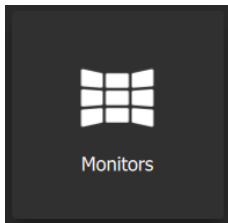
→ Identify a camera using the map. **Click and hold**.

→ **Drag and drop** into an available panel.

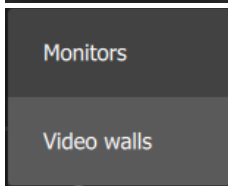
14.4 Manage Video Walls

The Video Wall is intended to represent the arrangement of physical monitors. Content on these physical monitors can be changed by adding monitors to the video wall.

14.4.1 Create New Video Wall (First Time)

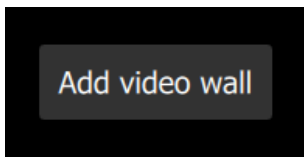


→ From the home menu, click **Monitors** to open a new tab.

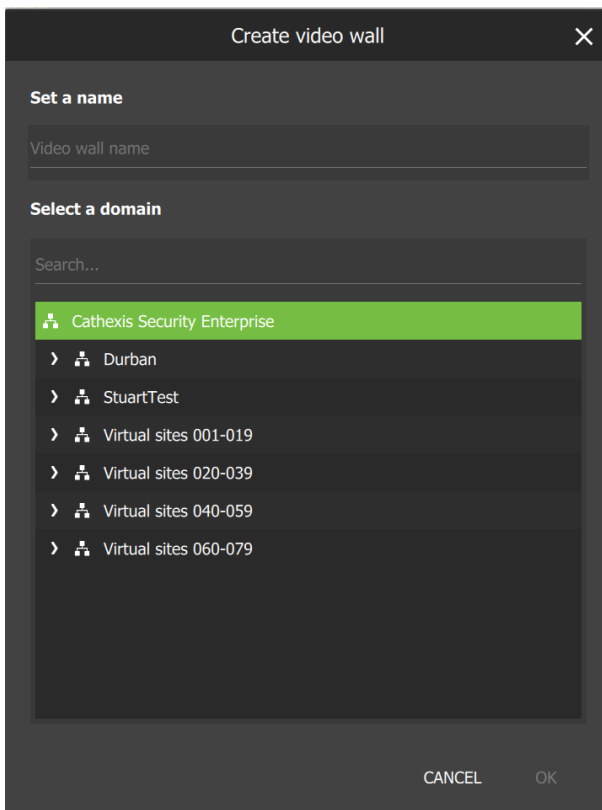


→ Use the drop-down menu to choose between viewing Monitors or Video Walls.

→ Select **Video walls**.



→ Click **Add video wall**.

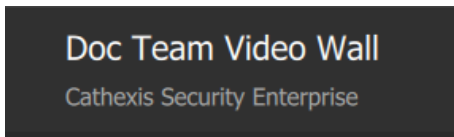
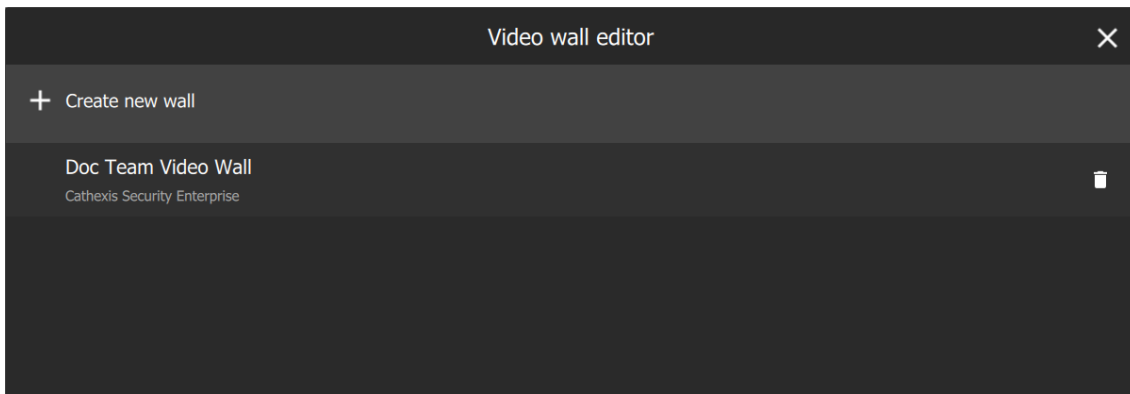


→ Enter a name in the field.

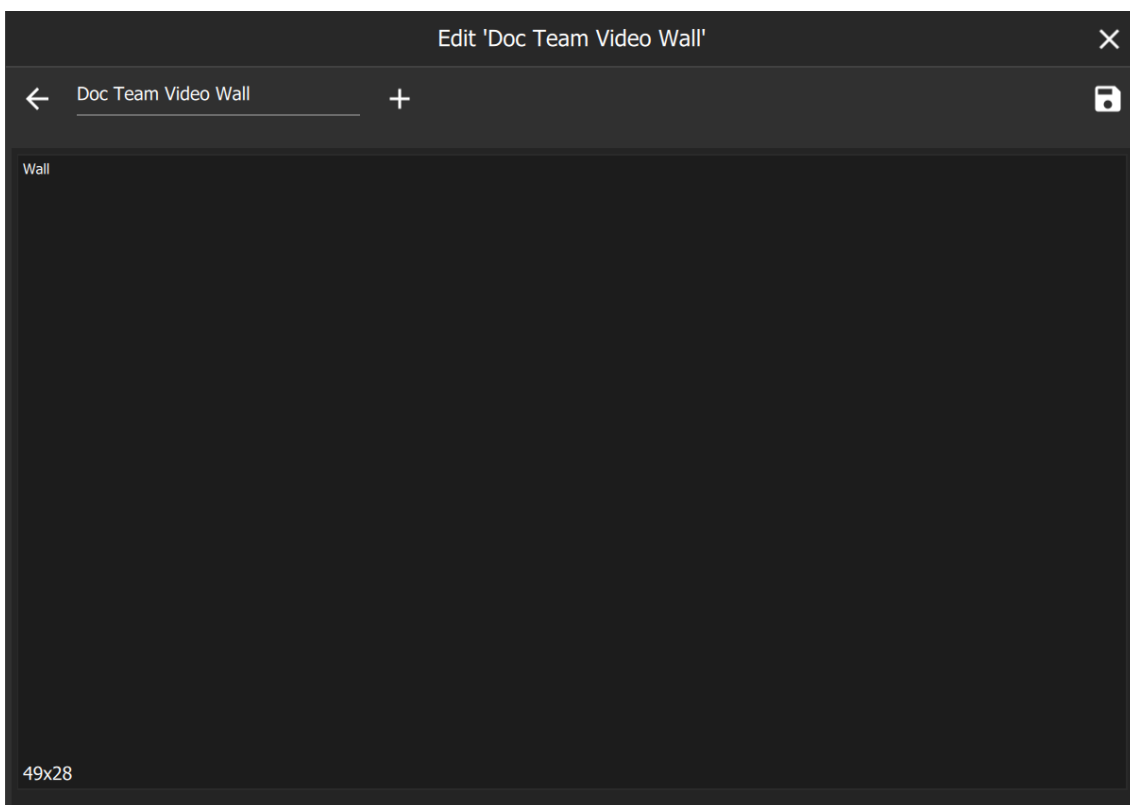
→ Select a domain to which the video wall will be allocated.

→ Click OK.

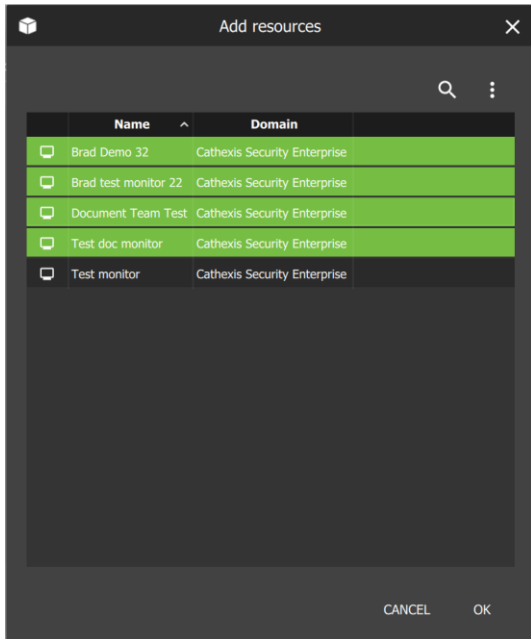
The Video wall editor will open, showing the newly created video wall.



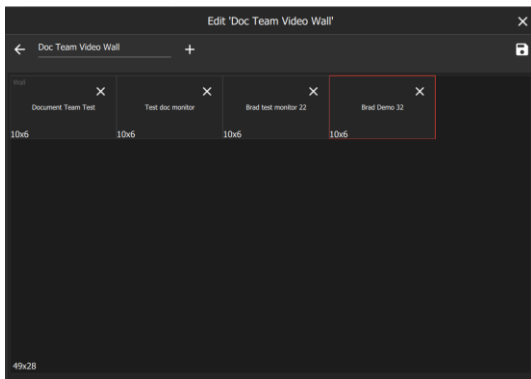
→ Click the name of the video wall to configure the new video wall.



→ Click the plus icon to add resources to the video wall.



- Ctrl+click or shift+click to select multiple resources.
- Click OK.



The added resources will appear in the Video Wall editor.



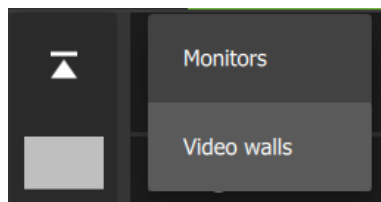
→ Click the **save icon** to save changes.



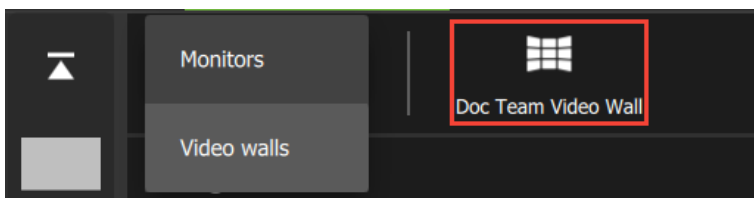
→ To **delete a wall**, return to the main video wall editor panel and click the trash icon.

14.4.2 View the Video Wall

Once a video wall has been created, it can be viewed in the main panel.

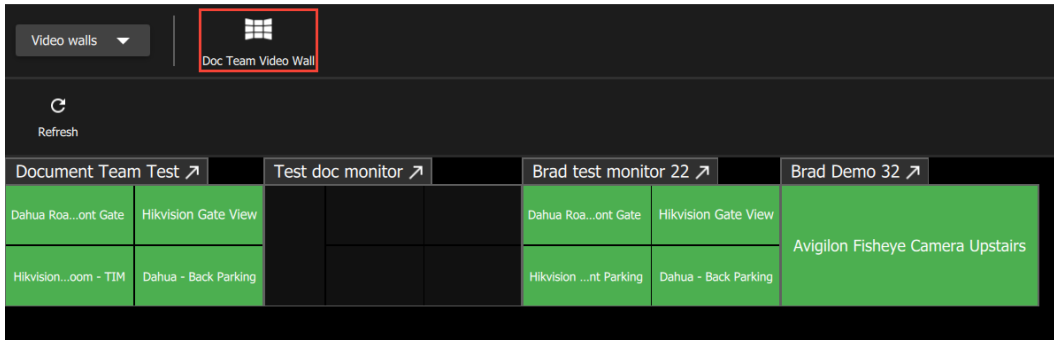


- Click the **drop-down** menu near the top of the tab.
- Select **Video Walls**.



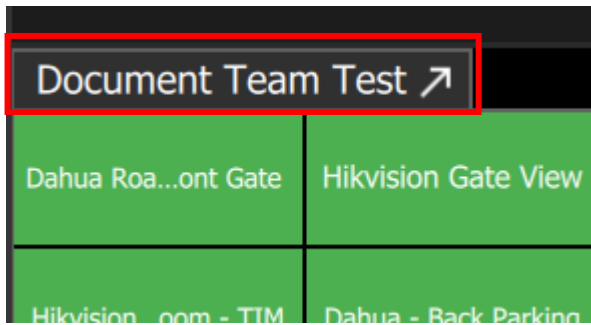
- Select a wall by clicking the icon that represents it.

The wall will show in the main panel. Cameras on this virtual representation will display as text.



14.4.2.1 View Cameras: Quick Access to Single Monitor Control

It is also possible to view the video feed if necessary.

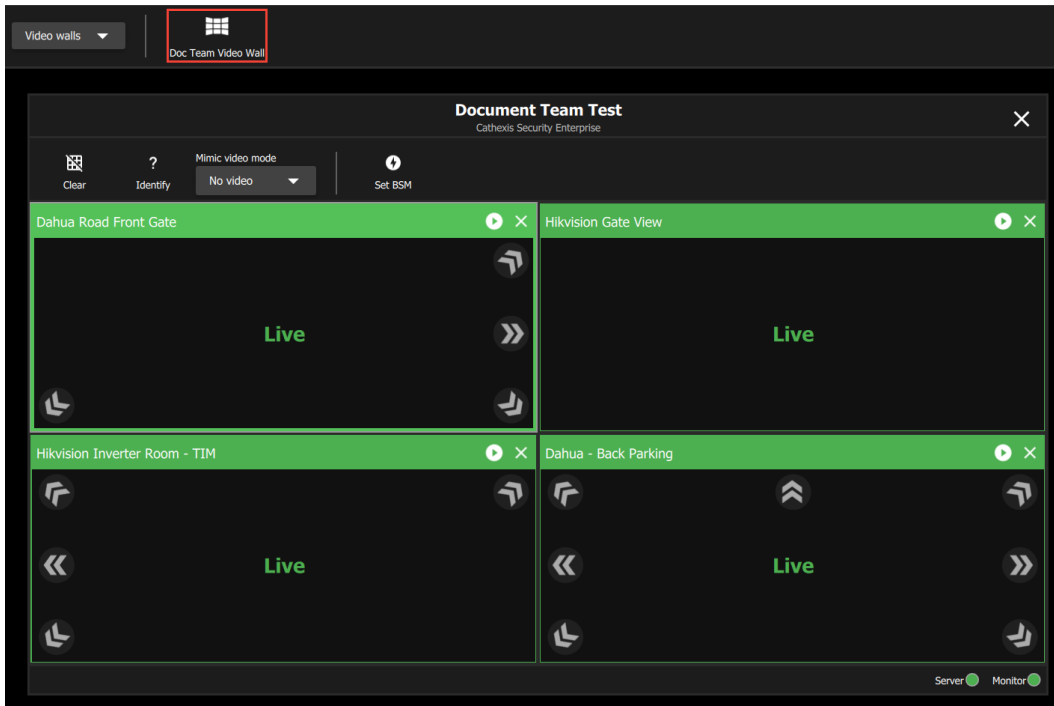


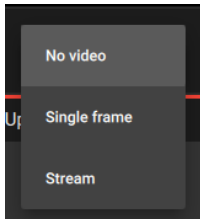
→ **Click the label** to view videos.

This will provide quick access to the single monitor control without exiting wall mode.

Alternatively, right-click the monitor and select **Control monitor**.

The layout will open in the main panel.





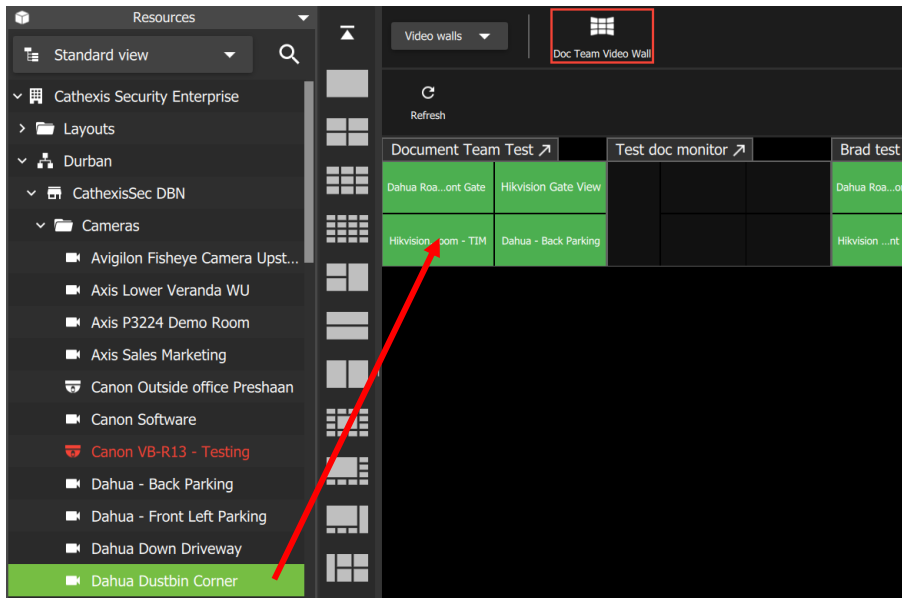
→ Click the mode field to show the drop-down. **Select Stream** to make the video visible.



→ Press the **cancel icon** to return to the main video wall screen.

14.4.3 Control a Monitor from the Video Wall

14.4.3.1 Add or Change a Monitor Camera



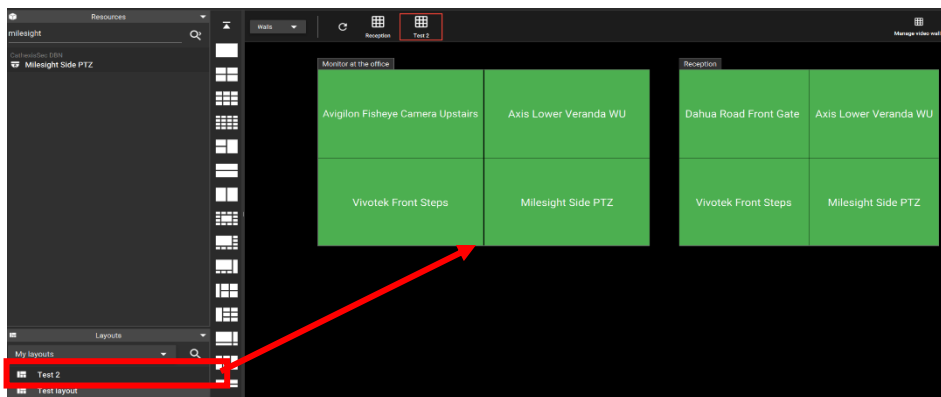
→ Click a camera in the **Resource panel** to select.

→ **Drag and drop** onto a display.

The selected camera will reflect in the display.

14.4.3.2 Copy a Layout into a Monitor

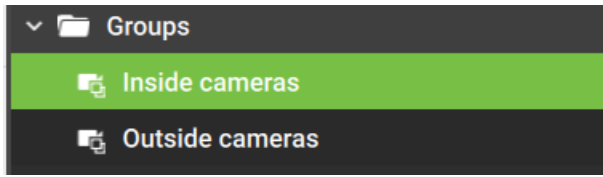
From the video wall, it is possible to make changes to the layout of a monitor using a saved layout.



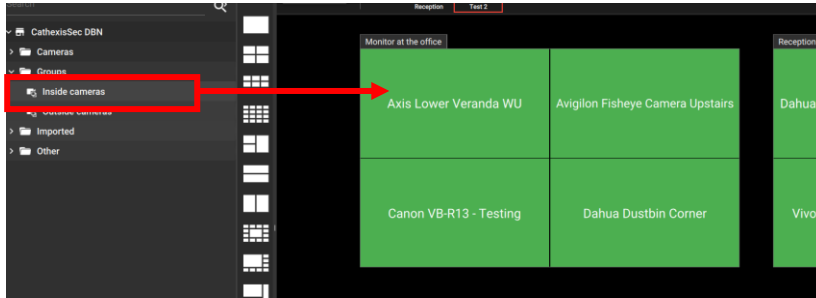
→ **Select a layout** from the side panel.

→ **Drag and drop** onto a monitor.

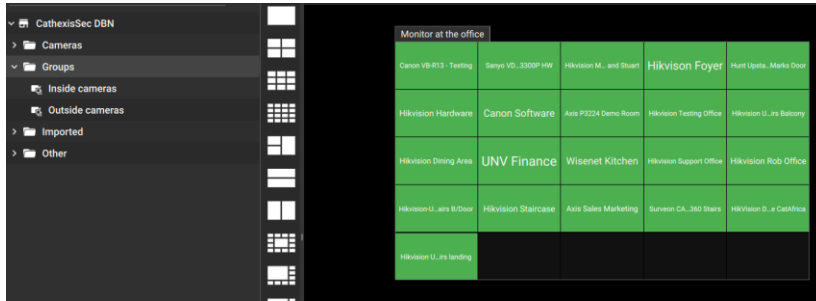
14.4.3.3 Add a Camera Group to the Monitor



→ Select a camera group from the sidebar.



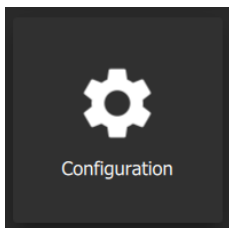
→ Drag and drop onto the wall, or, right-click and select Auto layout.



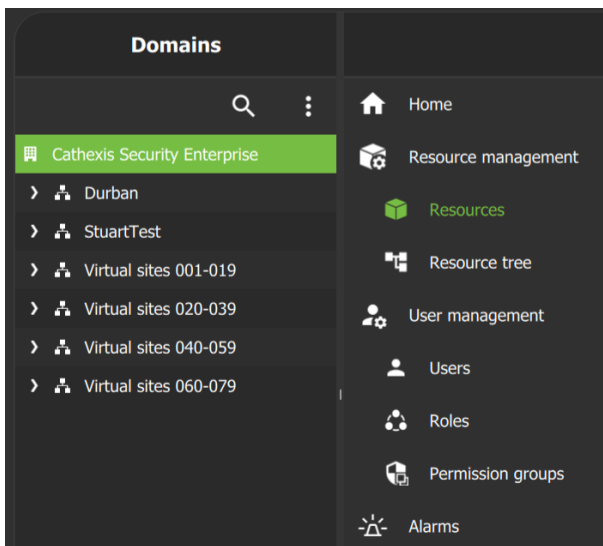
The camera group will be displayed on the wall.

14.4.4 Edit a Video Wall

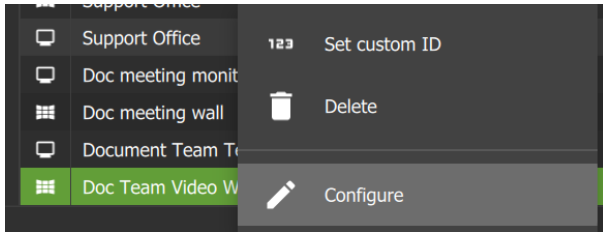
Video walls can be edited in the Configuration tab.



→ From the home menu, click **Configuration** to open a new tab.



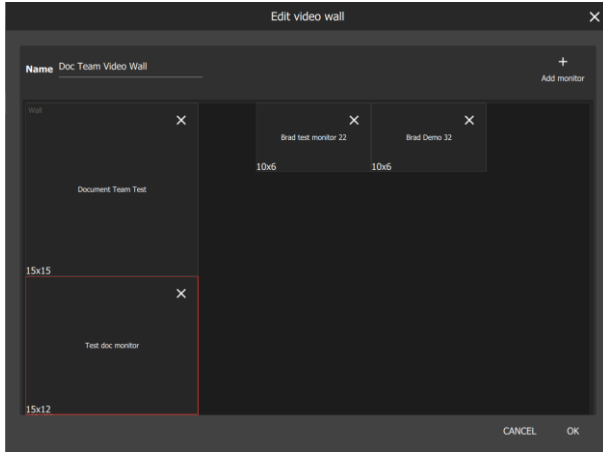
→ Select **Resources** in the menu panel.



→ Right-click the video wall.

→ Select **Configure**.

The video wall editor will open.



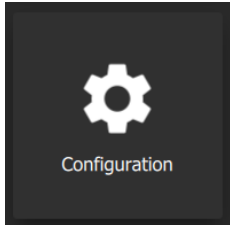
→ Hover over the border of a monitor so that arrows appear.

→ Adjust the size of the monitor as desired.

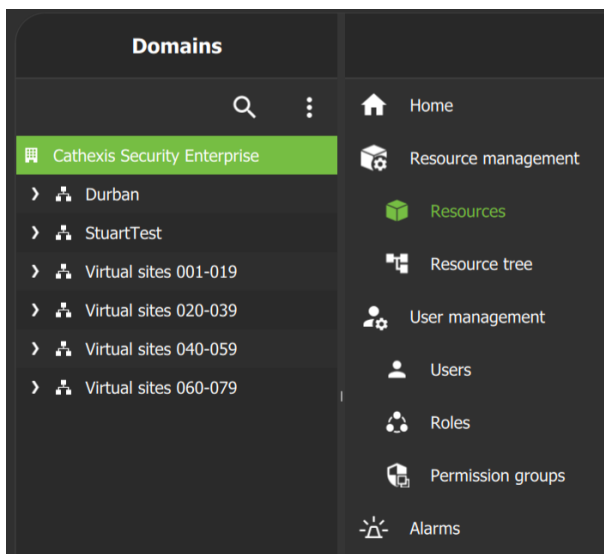
→ Click OK to save changes.

14.4.5 Create a New Video Wall (Subsequent)

New video walls can be created in the Configuration tab.



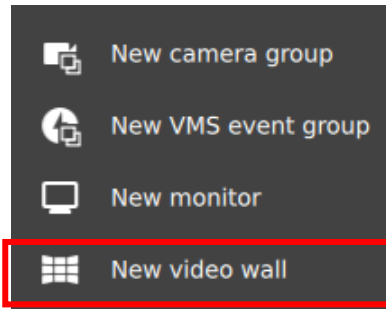
→ From the home menu, click **Configuration** to open a new tab.



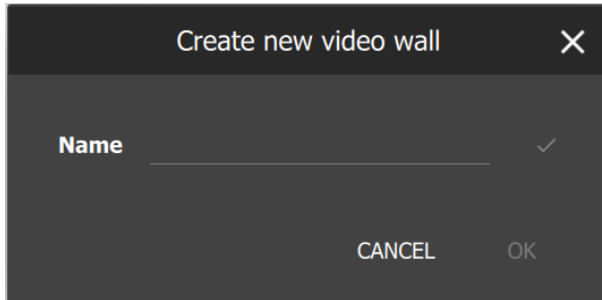
→ Select **Resources** in the menu panel.



→ Click the plus icon.

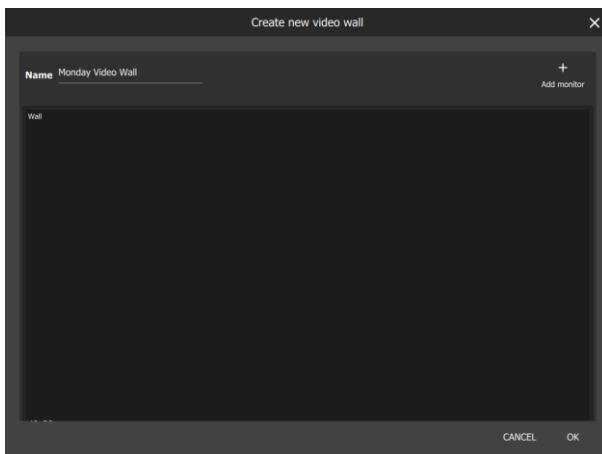


→ Select **New video wall**.

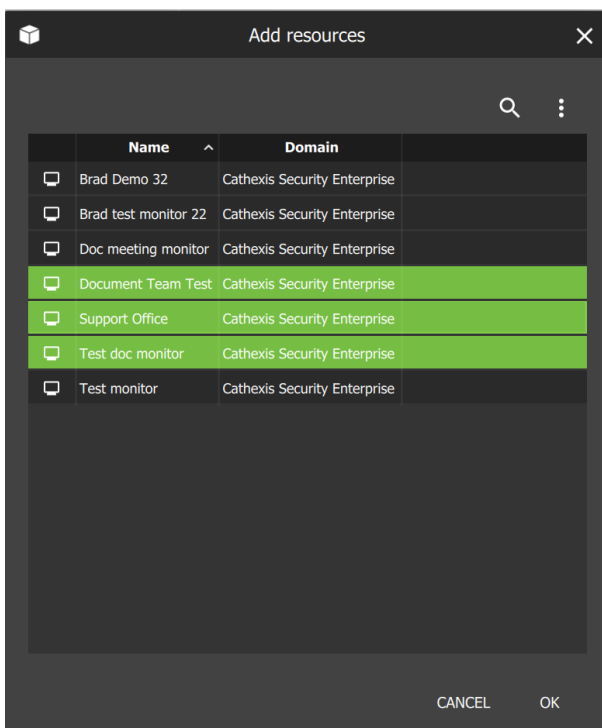


→ Enter a name for the new video wall.

→ Click OK.

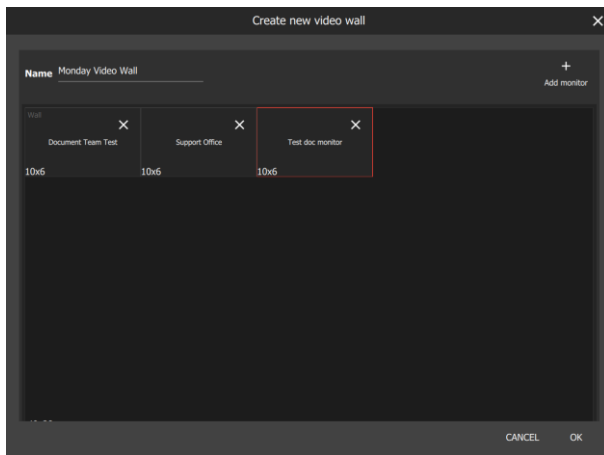


→ Click **Add monitor**.

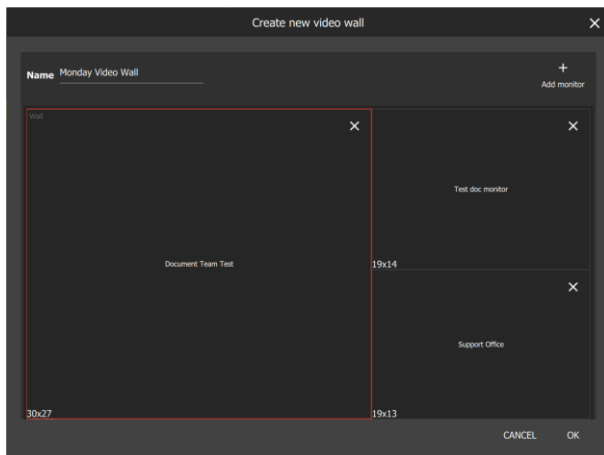


→ Ctrl+click or shift+click to select multiple resources.

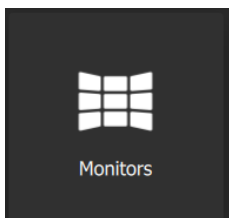
→ Click OK.



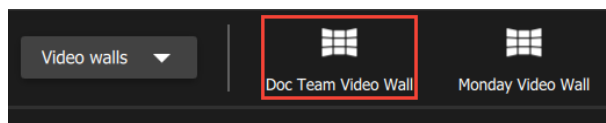
The added resources will appear in the Video Wall editor.



- Click and drag to move a monitor.
- Hover over the border of a monitor and move the arrows to adjust the size of a monitor.
- Click OK to save changes.



→ To view the additional video wall, return to the Monitors tab.



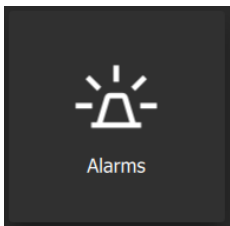
The new video wall will appear in the top panel.

15. Alarms Tab (MultiSite and Enterprise Connections)

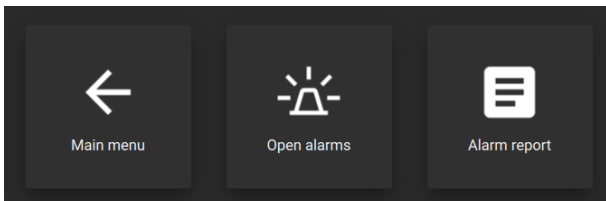
Events and technical alarms must be set up in CathexisVision.

All other alarm configuration is done in Carbon. Refer to [8.7 Alarms \(MultiSite and Enterprise\)](#) for instructions on configuring alarms in Carbon.

Note: For alarms to be delivered from a site to the Enterprise/MultiSite, the site must be connected to the Enterprise/MultiSite.



From the home menu, click the Alarms icon to open a new Alarms tab.



Select one of the following options:

- Return to the main menu
- Open alarms [\(15.1\)](#)
- Alarm report [\(15.2\)](#)

15.1 Open Alarms

Filters		Open alarms					
Sync filters		Key	Time	Alarm	Priority	Domain	Description
My open alarms	<input type="checkbox"/>	1053488	10:43:00	Recording failure	Medium	CathexisSec DBN	Incomplete recording for camera 'Dahua Road Pedestrian Passage' (#148), channel #1, event 'Scheduled recording'
Any user	<input type="checkbox"/>	1053489	10:43:00	Recording failure	Medium	CathexisSec DBN	Incomplete recording for camera 'Dakang Outhouse passage way' (#151), channel #1, event 'Scheduled recording'
Any domain	<input type="checkbox"/>	1053487	10:42:57	Motion	Low	CathexisSec DBN	Motion on Hikvision Rob Office - motion
Any alarm	<input type="checkbox"/>	1053486	10:42:53	Motion	Low	CathexisSec DBN	Motion on Hikvision Support Office - mo
Critical	<input type="checkbox"/>	1053485	10:42:50	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion
High	<input type="checkbox"/>	1053484	10:42:49	Motion	Low	CathexisSec DBN	Motion on UNV Finance - motion
Medium	<input type="checkbox"/>	1053483	10:42:40	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion
Low	<input type="checkbox"/>	1053482	10:42:40	Motion	Low	CathexisSec DBN	Motion on UNV Finance - motion
New	<input type="checkbox"/>	1053481	10:42:35	Motion	Low	CathexisSec DBN	Motion on Surveon CAM4360 Stairs - mot
Assigned	<input type="checkbox"/>	1053480	10:42:31	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion
Active	<input type="checkbox"/>	1053479	10:42:31	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion
Animal	<input type="checkbox"/>	1053478	10:42:30	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion
False alarm	<input type="checkbox"/>	1053476	10:42:30	Recording failure	Medium	CathexisSec DBN	Incomplete recording for camera 'Dahua Road Pedestrian Passage' (#148), channel #1, event 'Scheduled recording'
Phone home	<input type="checkbox"/>	1053477	10:42:30	Recording failure	Medium	CathexisSec DBN	Incomplete recording for camera 'Dakang Outhouse passage way' (#151), channel #1, event 'Scheduled recording'
	<input type="checkbox"/>	1053475	10:42:29	Motion	Low	CathexisSec DBN	Motion on nfy Hikvision Upstairs Balcon
	<input type="checkbox"/>	1053474	10:42:26	Motion	Low	CathexisSec DBN	Motion on UNV Finance - motion
	<input type="checkbox"/>	1053473	10:42:23	Motion	Low	CathexisSec DBN	Motion on Hikvision Support Office - mo
	<input type="checkbox"/>	1053472	10:42:21	Motion	Low	CathexisSec DBN	Motion on UNV Side of House - motion
	<input type="checkbox"/>	1053471	10:42:20	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion
	<input type="checkbox"/>	1053470	10:42:20	Motion	Low	CathexisSec DBN	Motion on Hikvision Dome CatAfrica - m
Open alarms	9505						
Table rows	9505						

Filters [\(15.1.1\)](#)

Open alarms [\(15.1.2\)](#)

Further options [\(15.1.3\)](#)

15.1.1 Filters



→ To collapse the filters panel, click the arrow.



→ To expand the filters panel, click the filter icon.

The alarms listed in the **Open alarms** panel can be filtered according to the following parameters:

Filters

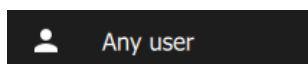
- Sync filters
- Text filter...
- My open alarms
- Any user
- Any domain
- Any alarm
- Critical
- High
- Medium
- Low
- New
- Assigned
- Active
- Animal
- False alarm
- Phone home

Open alarms 9889
Table rows 9889

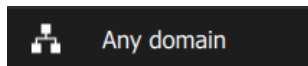
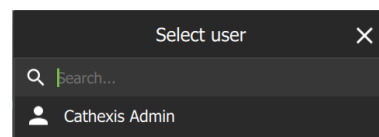
Sync filters: Selecting this will use the filters set in the *Filters panel* to override any filters set in the [View new alarms](#) and [Live preview panels](#).

- Entries that match the text entered here
 - Open alarms belonging to the user
 - A specified user
 - A specified domain
 - A specified alarm
 - Critical priority alarms
 - High priority alarms
 - Medium priority alarms
 - Low priority alarms
 - New alarms
 - Assigned alarms
 - Active alarms
 - Alarm tags
- Currently open alarms and table rows are indicated at the bottom of the filters panel.

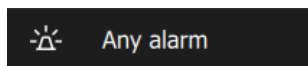
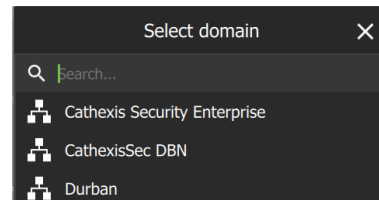
15.1.1.1 Any User, Any Domain and Any Alarm



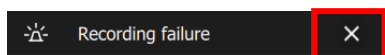
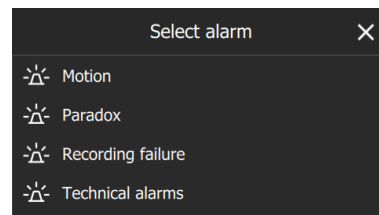
→ To filter by a user, click **Any user**.
Select the user in the window that opens.



→ To filter by domain, click **Any domain**.
Select the domain in the window that opens.



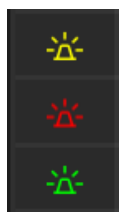
→ To filter by alarm, click **Any alarm**.
Select the alarm type in the window that opens.



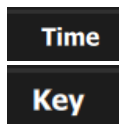
→ To clear any of the selected filters, click the cross next to the filter.

15.1.2 Open Alarms

Key	Time	Alarm	Priority	Domain	Description
1055070	11:38:53	Motion	Low	CathexisSec DBN	Motion on Hikvision Support Office - mo
1055069	11:38:52	Motion	Low	CathexisSec DBN	Motion on Hikvision Hardware - motion
1055068	11:38:52	Motion	Low	CathexisSec DBN	Motion on Hunt Upstairs Marks Door - mo



The alarm icon colour is set in the Configuration tab.



→ Click a category to sort the alarms by that category. The possible categories are:

- Alarm priority
- Key
- Time
- Alarm
- Priority
- Domain
- Description
- Owner
- State
- Tags
- Trigger time
- Arrival time

	1055038	11:37:47	Motion	Low	
	1055039	11:37:50	Motion	Low	Preview
	1055042	11:38:01	Motion	Low	Handle alarm
	1055043	11:38:04	Motion	Low	Assign to me
	1055044	11:38:04	Motion	Low	Close
	1055045	11:38:10	Motion	Low	Tags
	1055046	11:38:11	Motion	Low	

→ Right-click an individual alarm to view the options. See below.

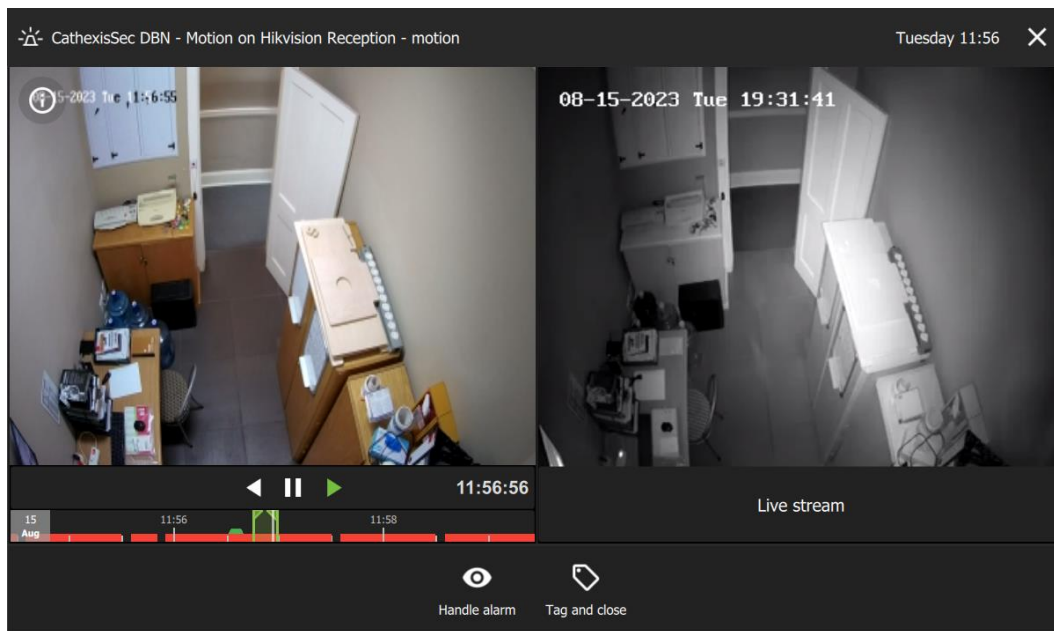
	1056076	12:14:17	Motion	Low	Cathexis
	1056077	12:14:17	Motion		Preview
	1056078	12:14:17	Motion		View alarm
	1056079	12:14:21	Motion		

→ Selecting **View alarm** will open the [Alarm viewer](#).

15.1.2.1 Preview Alarm

→ Right-click an alarm entry and select **Preview** to open a preview of the event that triggered the alarm. Alternatively, double-click the alarm entry to preview it.

The preview footage will display on the left, and the live stream from that camera will display on the right.

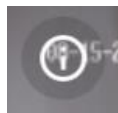


CathexisSec DBN - Motion on Hikvision Reception - motion

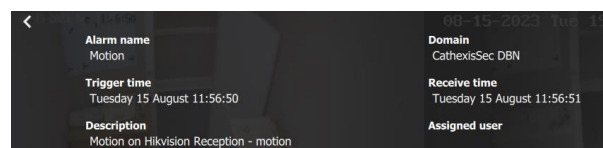
The domain and alarm trigger are listed in the top left.

Tuesday 11:56

The day and time are listed in the top right.

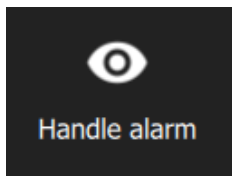


→ Click the information icon to view alarm information.

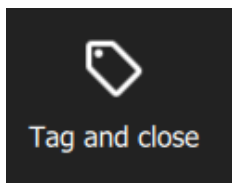




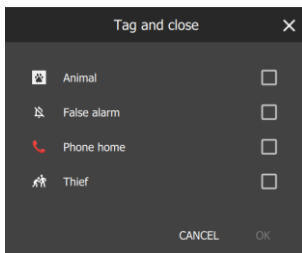
→ Use the navigation bar at the bottom of the preview panel to pause, play, go back, and scrub the feed.



→ Click **Handle alarm** to open the [Alarm Viewer](#).

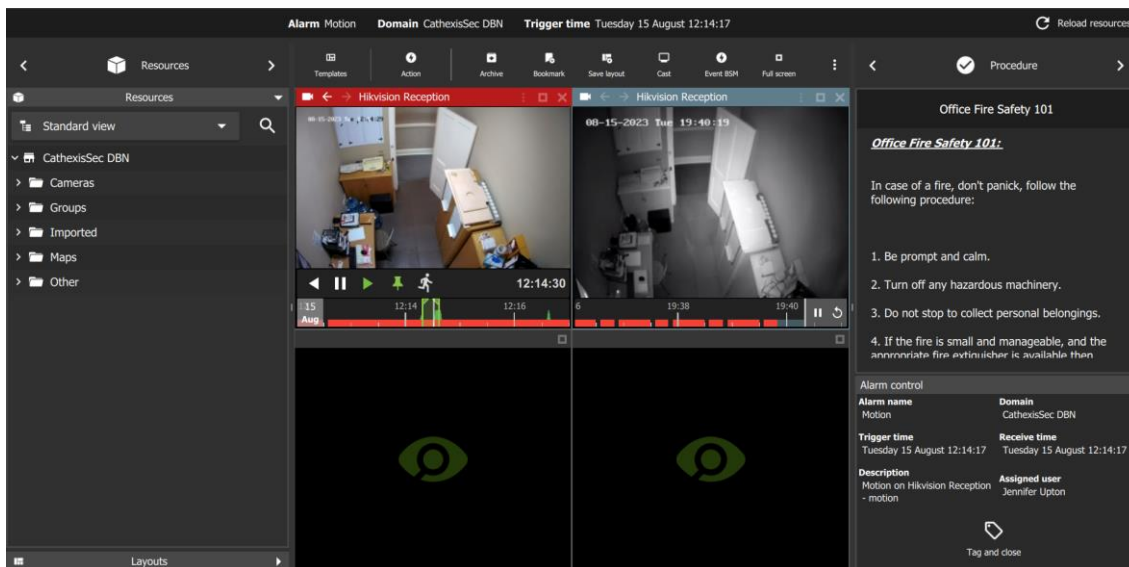


→ Click **Tag and close** to select a tag for the alarm and then close it.



15.1.2.2 Handle Alarm (Alarm Viewer)

→ Right-click an alarm entry and select **Handle Alarm** open the Alarm Viewer.



Monitoring area

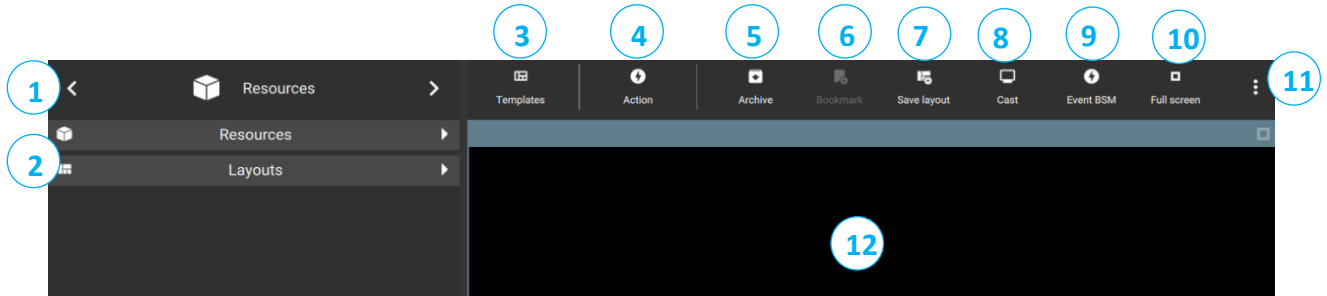
Alarm information and alarm resources / procedures

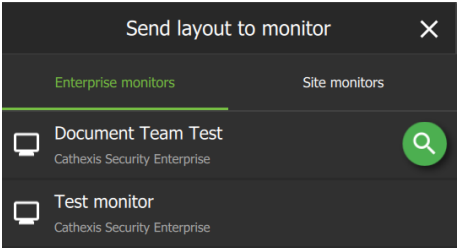


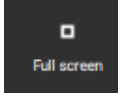

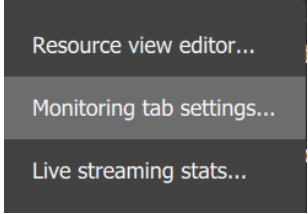
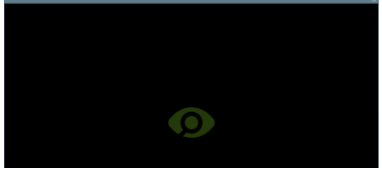
Information about the alarm is displayed at the top of the viewer.

MONITORING AREA

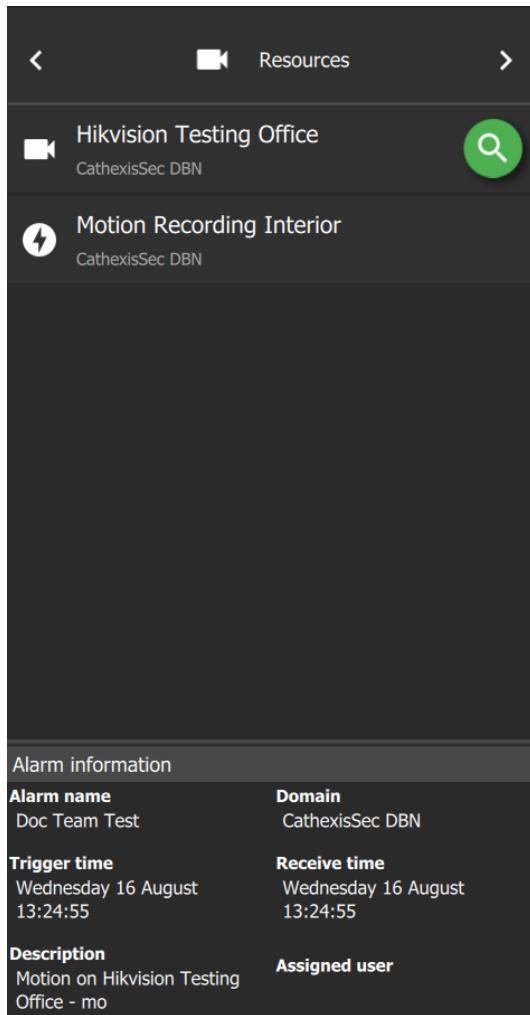
The layout of the **Alarm Viewer** is similar to that of the **Monitoring Tab**.



		Description
1		Click the arrows on the left and right to move between Resources, Bookmarks, Layouts, and Cameras with Activity . Alternatively, click on the name to display a drop-down menu.
2		Click to view saved layouts and resources .
3		Click to select a template , open the template editor, or remove a template.
4		Click to switch all feeds to live, review all live fees, pause/unpause all feeds, or clear all panels.
5		Click to open the Archive builder .
6		Click to open Bookmarks . A bookmark can be added.
7		Click to save a layout .
8		Click to send/cast a layout to a monitor .  → Select a monitor.
9		Click to open black screen monitor .

10		Click to make the monitor panels full screen.
11		<p>Settings Menu</p> 
12		Camera Panel Display

ALARM INFORMATION



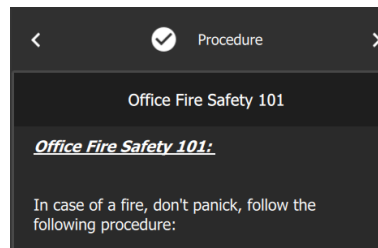
Click the arrows to switch between **Resources** and **Procedures** associated with the alarm.



Click this icon to search.

→ To add a camera to the viewing panels, double-click the camera listed under Resources.

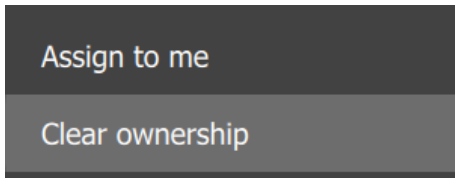
The procedure associated with the alarm (if any) will be displayed when **Procedures** are selected.



The alarm information will be listed.

15.1.2.3 Assign to Me

- Right-click an alarm entry and select **Assign to me** to assign the alarm to the current user.
- To remove one’s ownership of the alarm, right-click the alarm entry and select **Clear ownership**.



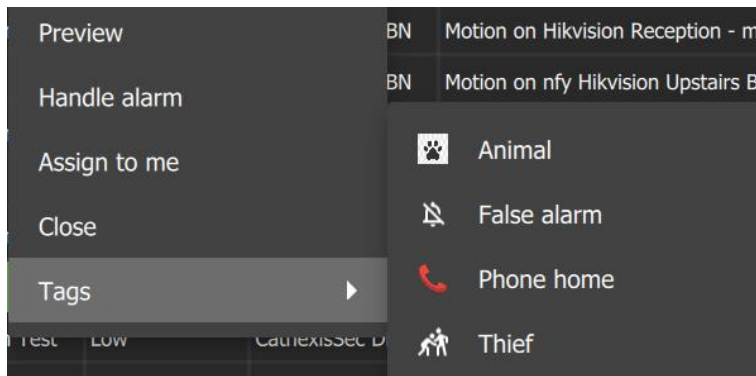
15.1.2.4 Close

- To close an alarm, right-click an alarm entry and select **Close**.




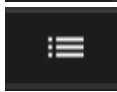

15.1.2.5 Tags

- To add a tag to an alarm, right-click an alarm entry and hover the mouse over **Tags**.
- Then select a tag.

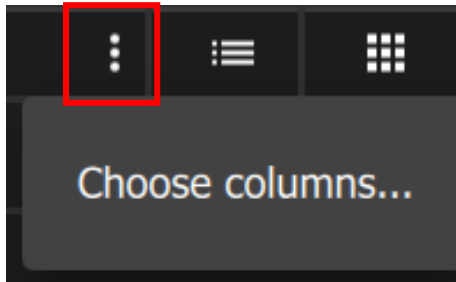


15.1.3 Further Options

There are three icons in the top-right corner of the **Open Alarms** tab:

-  [Choose columns](#) (15.1.3.1)
-  [View new alarms](#) (15.1.3.2)
-  [Live preview](#) (15.1.3.3)

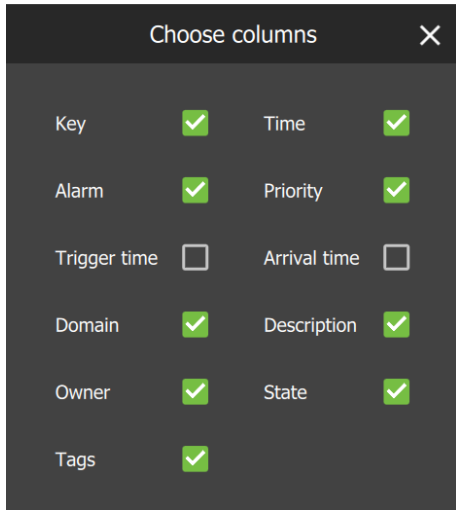
15.1.3.1 Choose Columns



→ Click the menu icon.

→ Select **Choose columns**.

The **Choose columns** pop-up will open.



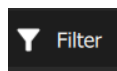
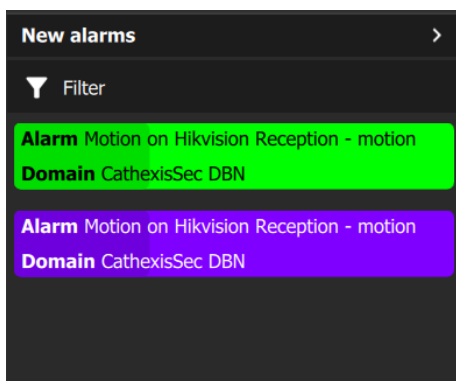
→ Check or uncheck column categories as necessary.

15.1.3.2 View New Alarms



→ Click the icon to view new alarms.

The **New Alarms** panel will open, showing new alarms as they come in.

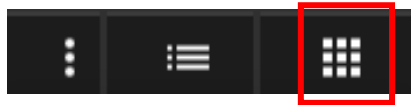


→ Click this icon to filter the new alarms.

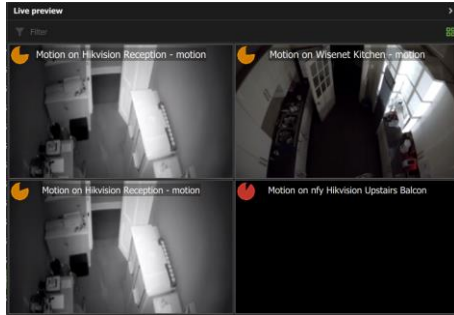


→ To collapse the **New alarms** panel, click this arrow.

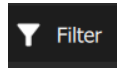
15.1.3.3 Live Preview



→ Click the icon to view a live preview of alarms as they come in.



The **Live preview** panel will open, showing previews of new alarms.



→ Click this icon to filter the new alarms.



→ To collapse the **Live preview** panel, click this arrow.



→ To change the live preview panel from two column panels to one column panel, and vice versa, click this icon.



The time elapsed since the alarm began is indicated by the shape of this icon.

15.1.3.4 Table View Lock



When the **table view lock** icon is purple, this indicates that the table view is auto-locked because the mouse is moving. In this state, it is possible to change the table view manually, but the table view will not change as new alarms come in.



Clicking this icon will turn it green and lock the table view manually.

15.1.3.5 Scroll Up and Down Table



→ Drag the navigation bar up or down to navigate the table.

15.2 Alarm Report

Key	Time	Alarm	Priority	Domain	Description	Owner	State	Tags
1132185	13:51:49	Motion	Low	CathesisSec DBN	Motion on Hikvision Dome CatAfrica - m		Closed	
1132184	13:51:49	Doc Team Test	Low	CathesisSec DBN	Motion on Avigilon Fisheye Camera Upsta		Closed	
1132183	13:51:49	Motion	Low	CathesisSec DBN	Motion on Avigilon Fisheye Camera Upsta		Closed	
1132182	13:51:48	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Testing Office - mo		Closed	
1132181	13:51:48	Motion	Low	CathesisSec DBN	Motion on Hikvision Testing Office - mo		Closed	
1132180	13:51:47	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Rob Office - motion		Closed	
1132179	13:51:47	Motion	Low	CathesisSec DBN	Motion on Hikvision Rob Office - motion		Closed	
1132178	13:51:45	Doc Team Test	Low	CathesisSec DBN	Motion on Hunt Upstairs Marks Door - mo		Closed	
1132177	13:51:45	Motion	Low	CathesisSec DBN	Motion on Hunt Upstairs Marks Door - mo		Closed	
1132175	13:51:44	Motion	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		Closed	
1132173	13:51:44	Motion	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		Closed	
1132174	13:51:44	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		Closed	
1132176	13:51:44	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		Closed	
1132171	13:51:43	Motion	Low	CathesisSec DBN	Motion on Hikvision Support Office - mo		Closed	
1132172	13:51:43	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Support Office - mo		Closed	
1132170	13:51:41	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		Closed	
1132169	13:51:41	Motion	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		Closed	
1132168	13:51:39	Doc Team Test	Low	CathesisSec DBN	Motion on nfy Hikvision Upstairs Balcon		Closed	
1132167	13:51:39	Motion	Low	CathesisSec DBN	Motion on nfy Hikvision Upstairs Balcon		Closed	
1132165	13:51:37	Motion	Low	CathesisSec DBN	Motion on Hikvision Dining Area - motio		Closed	
1132166	13:51:37	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Dining Area - motio		Closed	
1132164	13:51:36	Doc Team Test	Low	CathesisSec DBN	Hikvision Foyer VMD		Closed	

Filters ([15.2.1](#))

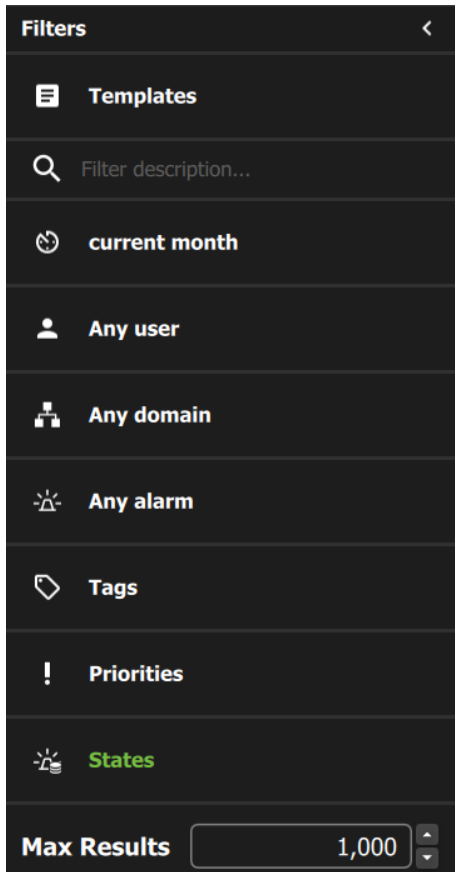
Alarms ([15.2.2](#))

Further options ([15.2.3](#))

To fetch a report, see [15.2.4](#).

15.2.1 Filters

The alarms listed in the **Alarms** panel can be filtered according to the following parameters:



- [Templates](#)
- Entries that match the text entered here
- A specified [time period](#)
- A specified [user](#)
- A specified [domain](#)
- A specified [alarm](#)
- [Alarm tags](#)
- [Priorities](#)
- Alarm [states](#)



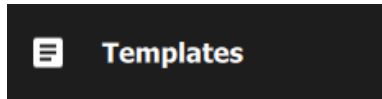
Click the arrows to adjust the maximum number of results that will be shown. Alternatively, enter a value in the field and press ENTER on the keyboard.



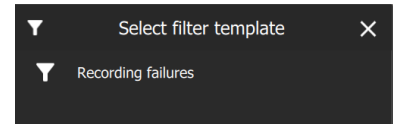
→ To collapse the filters panel, click the arrow.

→ Once filter/s have been set, it is possible to reset the entire filter panel to its default state (closed alarms) by clicking the **up-facing arrow** or the **refresh icon** (which appears if any tags, priorities, or states are expanded).

15.2.1.1 Templates



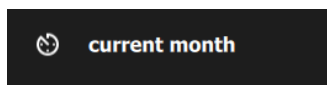
→ To choose a filter template, click **Templates**.



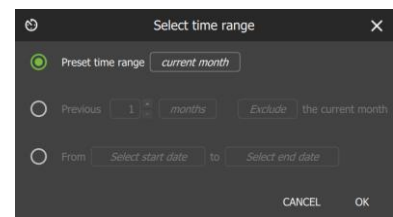
Select the template in the window that opens.

Note: To create a new template, see [15.2.3.3](#). Filter templates are defined by the sections that are set up in the report template. Any section created when setting up a report template can be used as a filter template.

15.2.1.2 Time Period



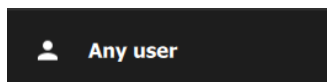
→ To filter by a user, click **current month**.



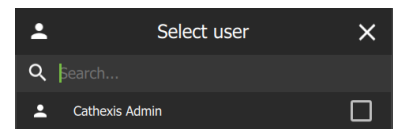
In the window that opens, either select a **Preset time range**, or choose a **custom time range**.

Click **OK** to save changes.

15.2.1.3 Any User, Any Domain and Any Alarm

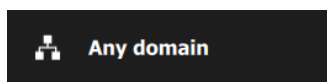


→ To filter by a user, click **Any user**.

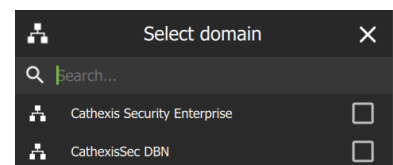


Select the user in the window that opens.

Click **OK** to save changes.



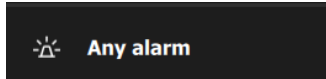
→ To filter by domain, click **Any domain**.



Select the domain in the window that opens.

Click **OK** to save changes.

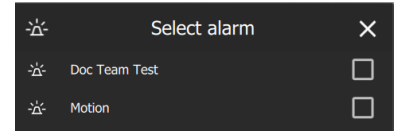




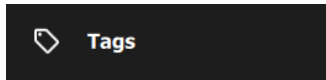
→ To filter by alarm, click **Any alarm**.

Select the alarm type in the window that opens.

Click **OK** to save changes.



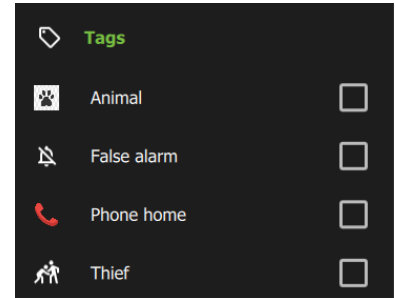
15.2.1.4 Tags



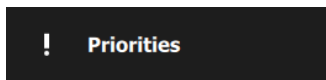
→ To filter by a user, click **Tags**.

The list of options will expand below.

Select a tag.



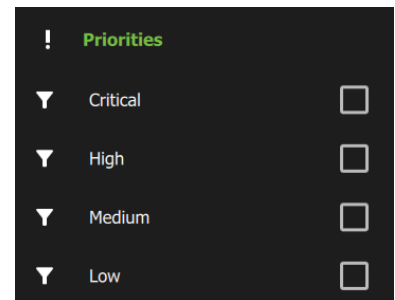
15.2.1.5 Priorities



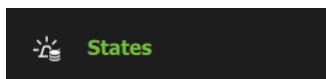
→ To filter by a priority, click **Priorities**.

The list of options will expand below.

Select a priority.



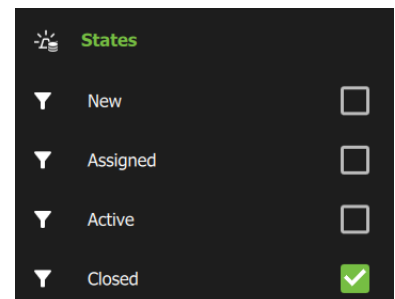
15.2.1.6 States



→ To filter by states, click **States**.

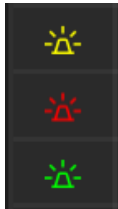
The list of options will expand below.

Select a state.

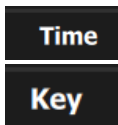


15.2.2 Alarms

Key	Time	Alarm	Priority	Domain	Description
1157736	06:55:02	Motion	Low	CathexisSec DBN	Motion on Hikvision Testing Office - mo
1157737	06:55:02	Doc Team Test	Low	CathexisSec DBN	Motion on Hikvision Testing Office - mo
1157735	06:55:01	Doc Team Test	Low	CathexisSec DBN	Motion on Hikvision Reception - motion

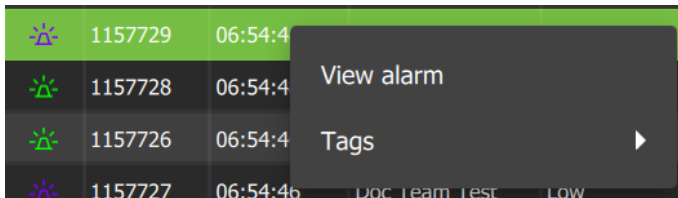


The alarm icon colour is set in the Configuration tab.



→ Click a category to sort the alarms by that category. The possible categories are:

- Key
- Trigger time
- Arrival time
- Time
- Alarm
- Priority
- Domain
- Description
- Owner
- State
- Tags



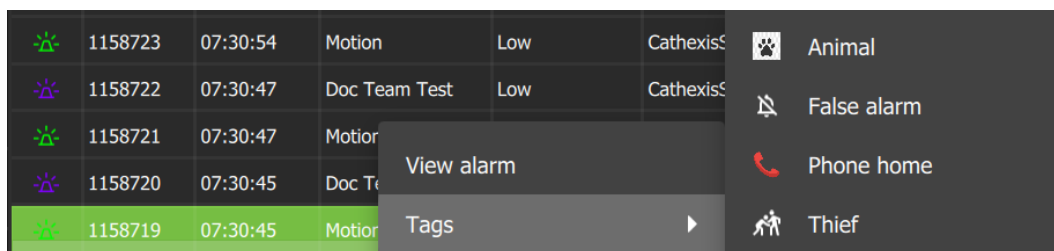
→ Right-click an individual alarm to view the options. See below.

→ Selecting **View alarm** will open the [Alarm viewer](#).

15.2.2.1 Tags

→ To add a tag to an alarm, right-click an alarm entry and hover the mouse over **Tags**.

→ Then select a tag.



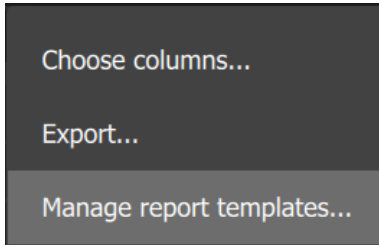
15.2.3 Further Options



→ To refresh the alarm report, click the **refresh icon**.



→ Click the menu icon at the top-right of the **Alarm report** window to reveal further options:



Choose columns ([15.2.3.1](#))

Export ([15.2.3.2](#))

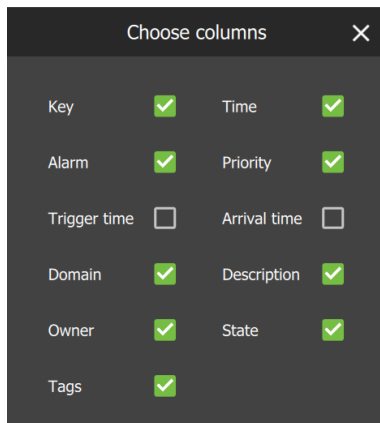
Manage report templates ([15.2.3.3](#))

15.2.3.1 Choose Columns



→ Select **Choose columns**.

The **Choose columns** pop-up will open.



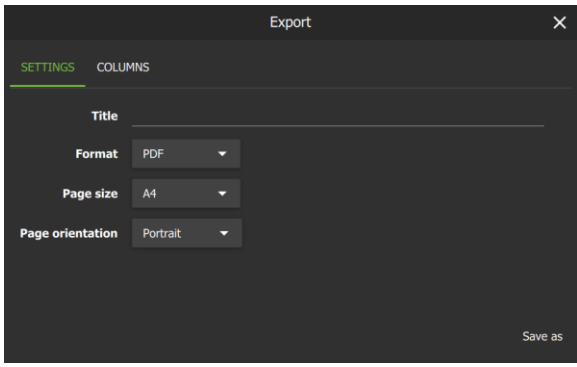
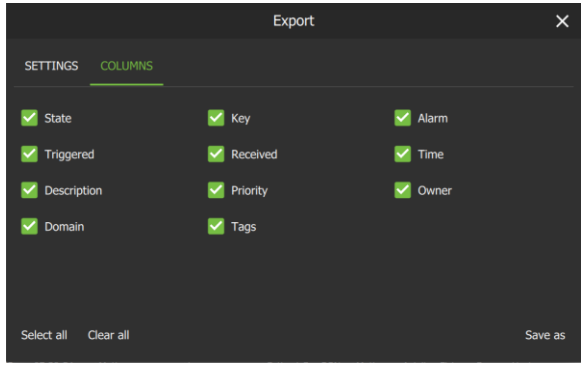
→ Check or uncheck column categories as necessary.

15.2.3.2 Export

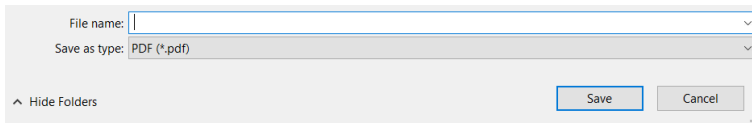


→ Select **Export**.

The **Export** window will open.

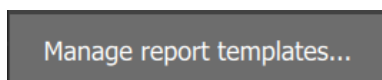
Settings Tab	Columns Tab
 <p>→ Enter a title for the report.</p> <p>→ Select a format (PDF or CSV).</p> <p>→ Select a page size (A3 or A4).</p> <p>→ Select a page orientation (portrait or landscape).</p>	 <p>→ Check the desired columns.</p>

→ To export the report, click **Save as**.



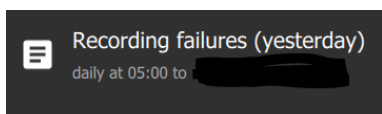
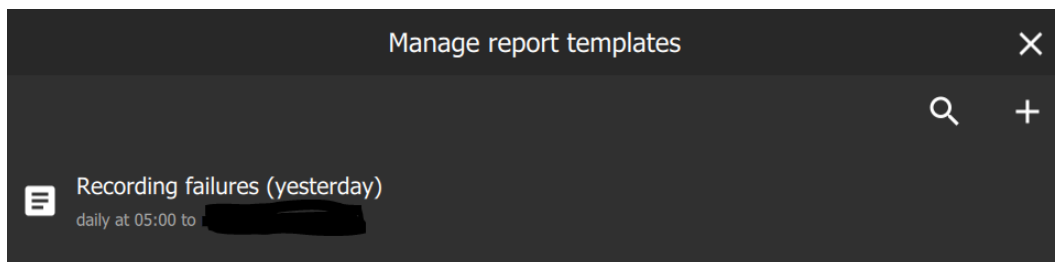
→ Choose a location, enter a file name and click **Save**.

15.2.3.3 Manage Report Templates

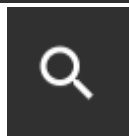


→ Select **Manage report templates**.

The **Manage report templates** pop-up will open.



→ Click a template to edit it.

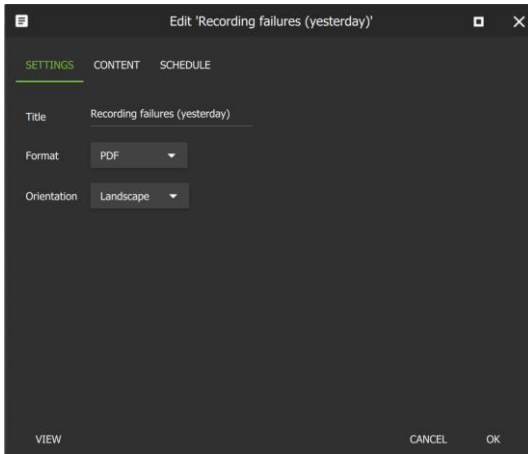


→ Click the **search icon** to search the report templates.

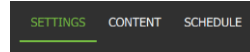


→ Click the **plus icon** to add a new template.

Edit Template



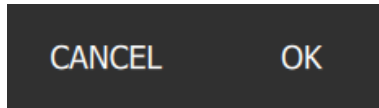
→ Clicking a template will open the **Edit template** window.



Click on the tabs to edit the content in them.



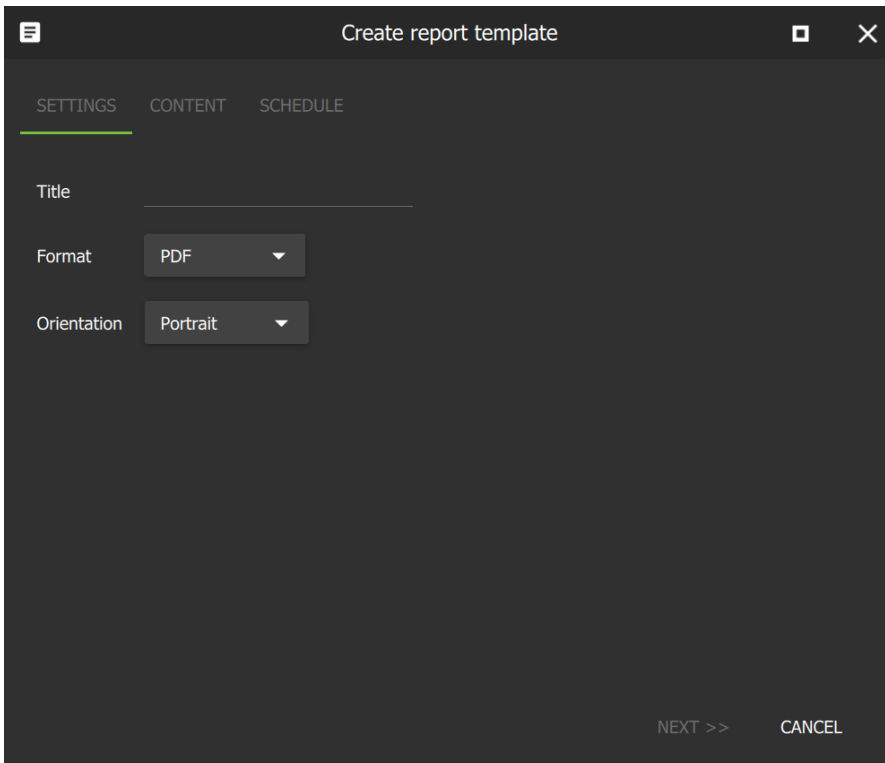
→ Click **View** to view the report file.



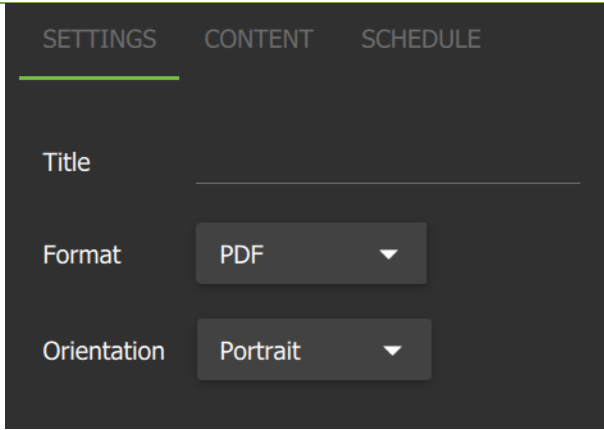
→ Click **Cancel** to cancel the changes.

→ Click **OK** to save changes.

Add a New Template



→ Clicking the **plus icon** will open the **Create report template** window.

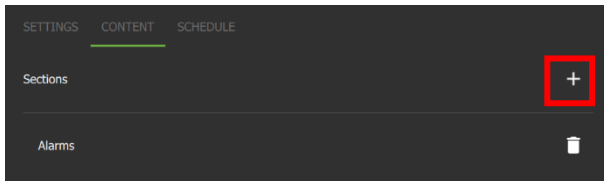


Settings tab

- Enter a name for the report template.
- Select a format (PDF or CSV).
- Select an orientation (portrait or landscape).

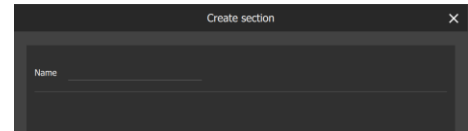


Click **Next** to move to the next tab.

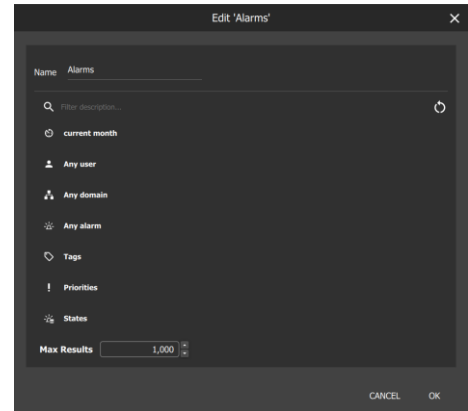


Content tab

- Click the **plus icon** to add a section to the report template. The **Create section** window will open.



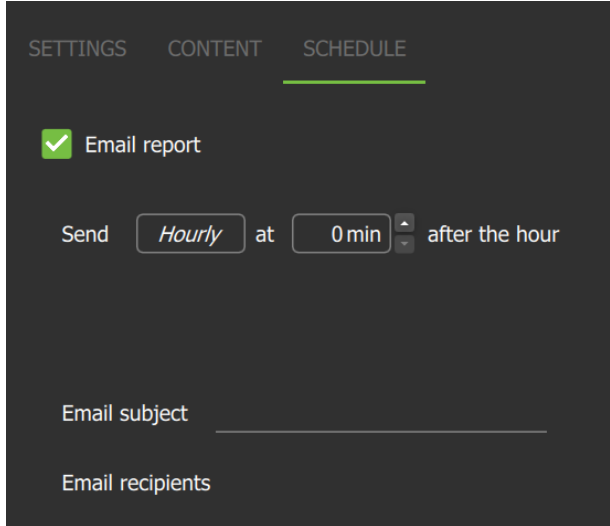
- Or, click the name of a section (in this example, “Alarms”) to edit a section that has already been created. This will open the window to edit the section.



- Edit the name and select the category as desired.
- Click **OK** to save changes.



Click **Next** to move to the next tab.



Schedule tab

- Check **Email report**.
- Click the fields to edit them.
- Use the up and down arrows to adjust the values.
- Enter an email subject.
- Click the **plus icon** to add email recipients.

SAVE Click **Save** to save changes.

15.2.3.4 Scroll Up or Down



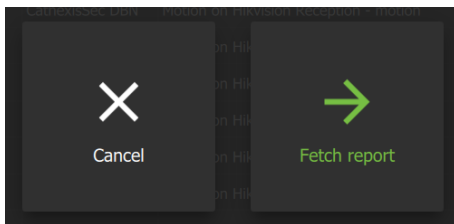
→ Drag the navigation bar up or down to navigate the table.

15.2.3.5 Refresh Report



→ Click the icon to refresh the report.

15.2.4 Fetch Report



Selecting any option in the filters panel will display this overlay.

→ Click **Fetch report** to fetch the report.

16. Conclusion

Note: This manual was designed to deal with the installation and setup of Carbon 5.

For more information about CathesisVision, consult the ***CathesisVision Operator's Manual*** and the ***CathesisVision Setup Manual*** (<https://cathesisvideo.com/>).

For technical support, email support@cathesisvideo.com.

USEFUL LINKS

To view **tutorial videos** on CathesisVision products and setup, visit <https://cathesisvideo.com/resources/videos>

Find answers to Cathesis **Frequently Asked Questions**: <https://cathesis.crisp.help/en/?1557129162258>