



Carbon

CATHEXISVISION CARBON 6 MANUAL



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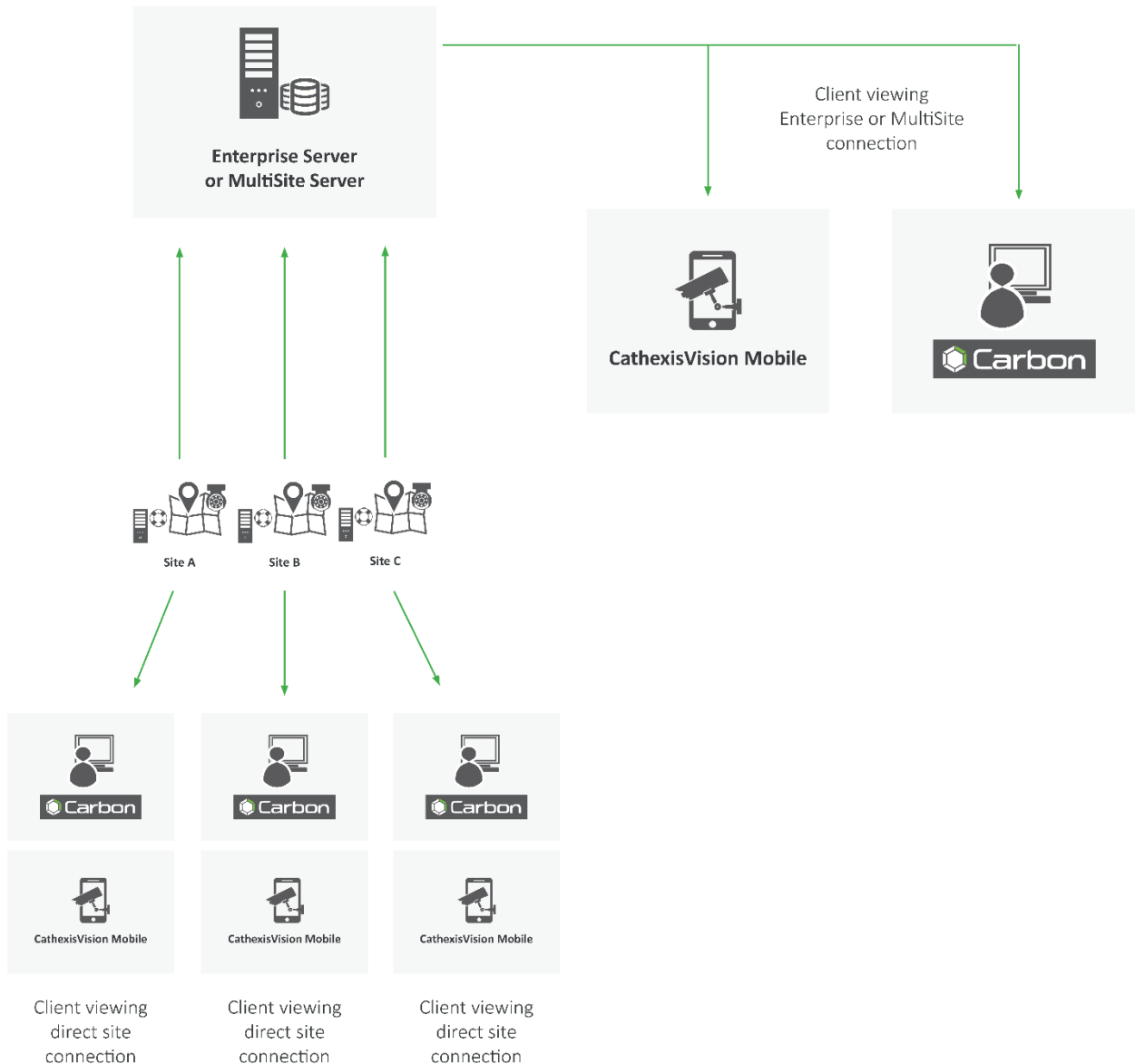
1. Introduction

This **CathexisVision Carbon 6 Manual** explains the installation, configuration and operating procedures of the Carbon 6 user interface. Carbon can be used 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, CathexisVision sites, Enterprise servers, MultiSite servers, and the CathexisVision Mobile app.



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

- ***Carbon Suite 6 Release Notes***
- ***Carbon 6 White Paper***
- ***Carbon 6 Quick Start Guides***
- ***CathexisVision MultiSite 6 Installation Guide***
- ***CathexisVision Enterprise 6 Installation Guide***
- ***CathexisVision Mobile 6 App-note***
- ***CathexisVision Mobile 6 Quick Guide***
- ***CathexisVision Mobile 6 White Paper***

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

1.2 Supported Languages

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

***Note:**

- These languages are supported in Carbon 4.2 and later.
- Full translation support is offered in Carbon 6.2.

1.3 Requirements and Specifications

1.3.1 General Requirements

- Windows 10 and later; Windows Server 2019 and later.
- Minimum 8GB of RAM required.

1.3.2 Product Interoperability

The table below shows the Carbon’s interoperability with other CathexisVision products.

	Carbon		
	4	5	6
CathexisVision 2022			
CathexisVision 2023			
CathexisVision 2024	-	-	
Enterprise 4			
Enterprise 5			
Enterprise 6	-	-	
MultiSite 4			
MultiSite 5			
MultiSite 6	-	-	

Supported - Not supported

1.3.3 License Requirements

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

For information on MultiSite and Enterprise licensing requirements consult the **CathexisVision Software Product Description and Licensing** document. Download it from <https://cathexisvideo.com>.

1.3.4 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. For more information, consult the *CathexisVision Carbon 6 White Paper*.

1.5 Navigating This Document

Click the links below:



[5. Monitoring Tab](#)



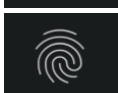
[6. Databases Tab](#)



[7. Maps Tab](#)



[8. Configuration Tab](#)



[9. Feature Search Tab](#)



[10. Archive Player Tab](#)



[11. Video Walls Tab](#)



[12. Dashboard Tab](#)



[13. Hardware Tab](#)



[14. Alarms Tab](#)

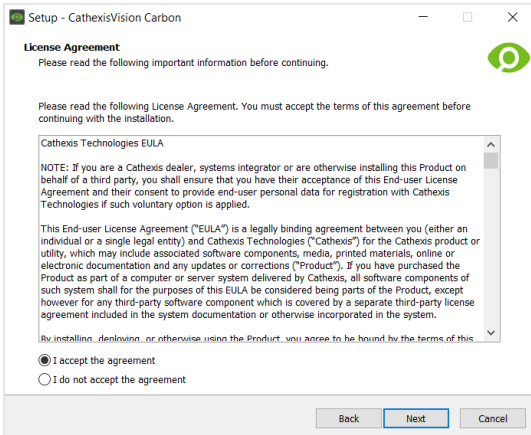
2. Install Carbon

Download the CathesisVision Carbon desktop installation software from the Cathesis website at <https://downloads.cathesisvideo.com/> or contact Support at support@cathesisvideo.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.

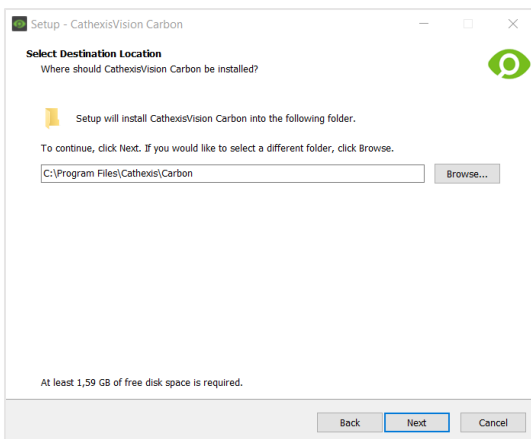


→ Read the information. Click **Next**.



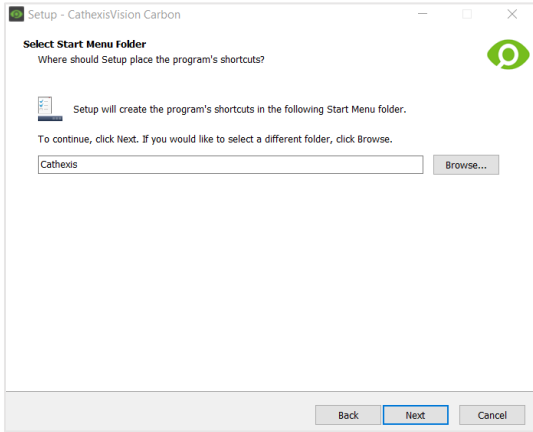
→ Read the agreement. Select the option to **accept**.

→ Click **Next**.



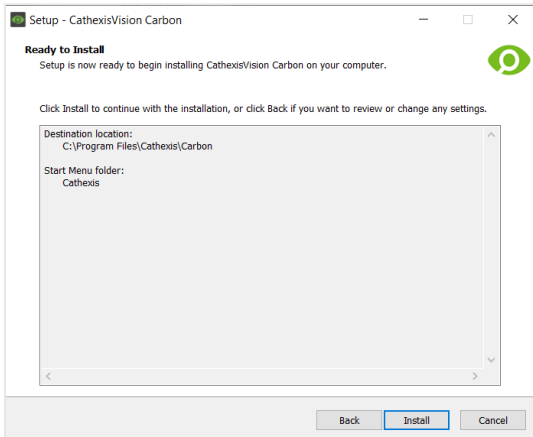
→ Select the folder into which CathesisVision Carbon will be installed.

→ Click **Next**.



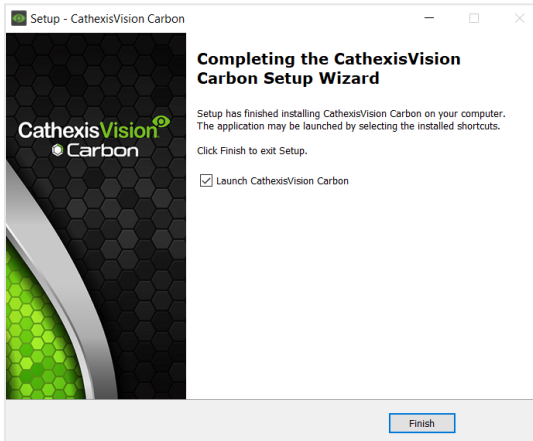
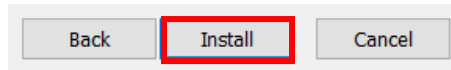
→ Select the Start Menu folder where the Carbon shortcuts will be placed.

→ Click **Next**.



→ Review the installation settings.

→ Click **Install**.



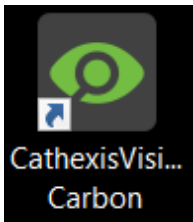
→ When installation is complete, click **Finish**.

3. Add 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)




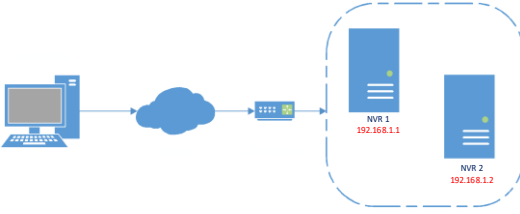
1. Open Carbon by double-clicking the desktop icon.

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>
Port Forward	 <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". A new dialogue will open ("Setup site discovery").



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

- Enter 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** in the field.

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

→ Click **OK**.

3.2.3 Add a Site: Subsequent Logins

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

→ Click the **plus icon**. This will open the **New site** dialogue.

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

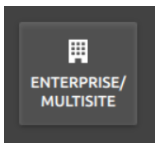


Consult the *CathexisVision MultiSite Installation Guide* for more information on downloading and installing MultiSite.

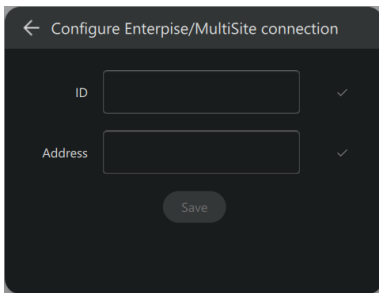
Follow the steps below to:

- 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

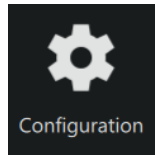
To add a site (i.e. register a site with a MultiSite server):

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.

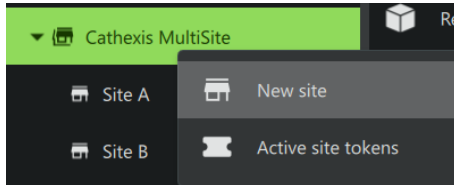
3.3.2.1 Add New Site to Root Domain

In MultiSite, all sites are attached to the root domain.

→ Log in to MultiSite through Carbon.



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

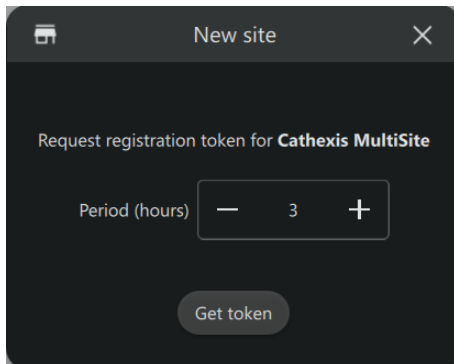


→ Right-click the root domain.

→ Click **New site**. The **New site** dialogue will open.

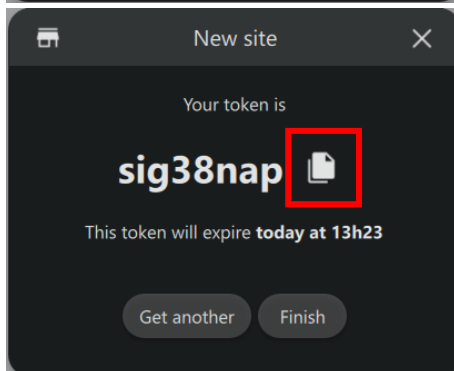
3.3.2.2 New Site: Get Token

In the **New site** dialogue:




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

→ Click **Get token**.

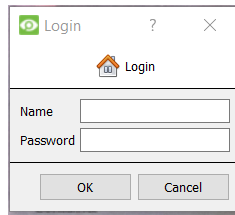


→ Click the **copy icon** to copy the token to the clipboard.

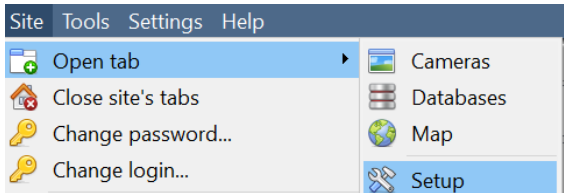
→ Click **Finish**.

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

3.3.2.3 Connect CathesisVision Site to MultiSite



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



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

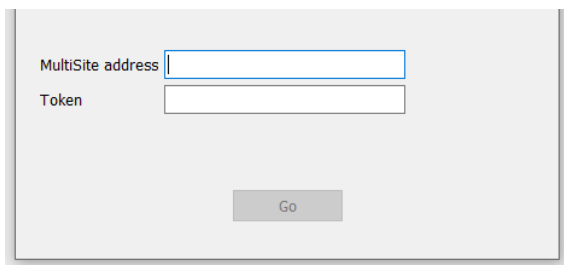


→ Click the **Enterprise/MultiSite icon** on the menu on the left.



→ 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.



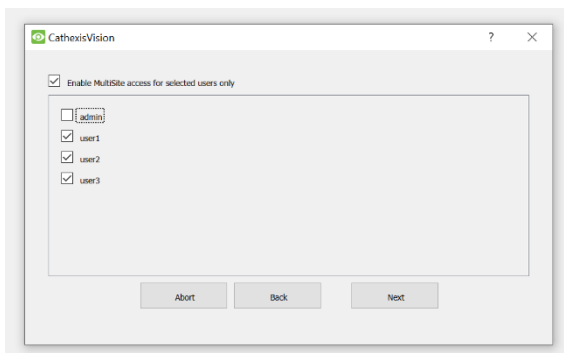
The administrator will enter or provide the **address**. (This is the IP address of the MultiSite server.)

→ Enter the **MultiSite address**.

→ Enter the **token number**.

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

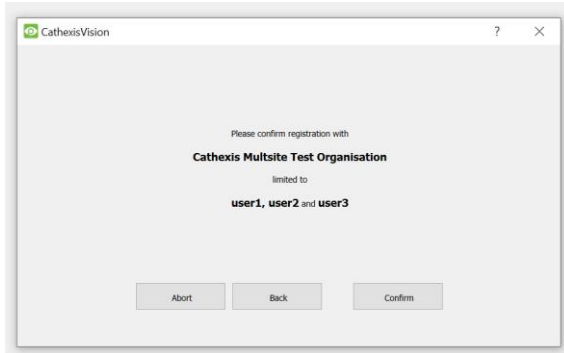
Enable MultiSite access for selected users only: If this option is enabled, the selected users (configured in CathesisVision) will be given access to the CathesisVision system through Carbon (MultiSite connection).



→ If choosing to enable MultiSite access for selected users only, check the box.

→ Check the boxes to select users.

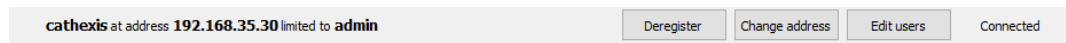
→ Click **Next**. A window will open.



→ 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.

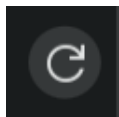


MultiSite registration status: buttons

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

3.3.2.4 View Added Site in Carbon

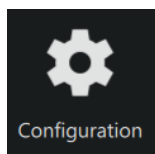
Return to the Configuration tab of Carbon.



→ Click the **refresh icon** at the top-right of the domain panel.
The newly-added site will appear in the folder tree.

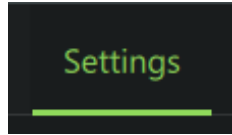
3.3.2.5 Complete Configuration of Site Connection to MultiSite in Carbon

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.

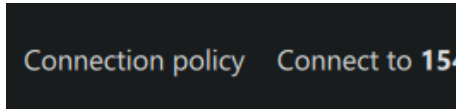


→ Click **Configuration** to open a new tab from the home screen.

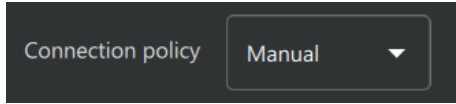
→ Select the site in the Domains panel on the left.



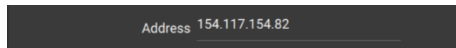
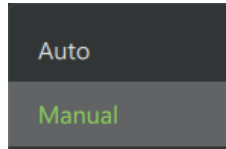
→ Click the **Settings** tab in the configuration panel on the right. Under Settings, the user may edit the site's connection policy.



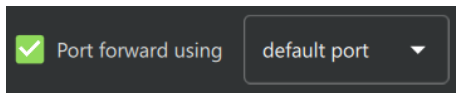
→ Click anywhere in the field. The options for editing will appear.



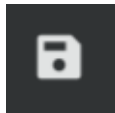
→ **Connection policy:** Choose between Manual and Auto. See table below for information on different connection types.




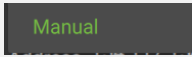
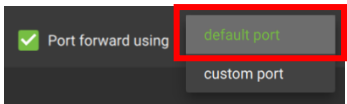
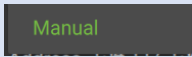
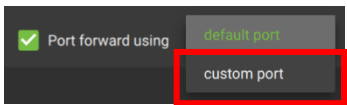
→ **Address (if Manual connection policy is selected):** Enter the IP address.



→ **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

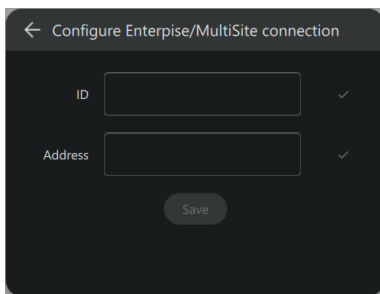
Follow the steps below to make the first connection to an Enterprise and to add CathexisVision sites.



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

This will open a configuration dialogue.

3.4.1 Configure Enterprise Connection



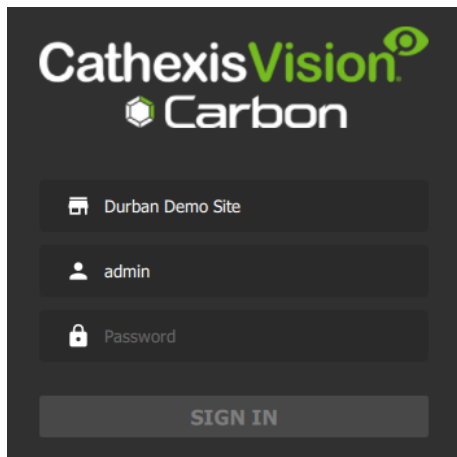
→ Enter an **ID** for the Enterprise connection.

→ 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.

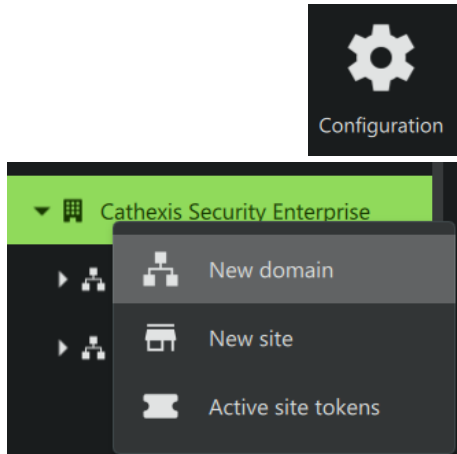
Note: The default login for Enterprise is
Username: admin
Password: 123456

→ Click **SIGN IN**.

3.4.2 Add a Site to Enterprise

Organise domains (groups) in Enterprise before adding or connecting a CathexisVision site to the Enterprise. This will provide the option to arrange sites in domains on the folder tree.

3.4.2.1 Add Domain



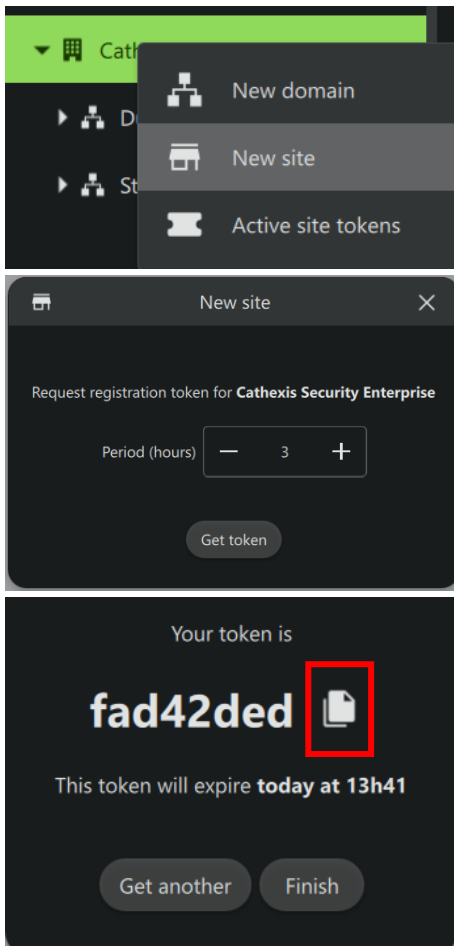
→ Click **Configuration** to open a new tab from the Carbon home screen.

→ Right-click the **root folder** in the folder tree.

→ Click **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.



→ Right-click the domain or Enterprise root folder to which the site will belong.

→ Click **New site**. The **New site** dialogue will open.

→ Click **Get token**.

→ Click the **copy icon**.

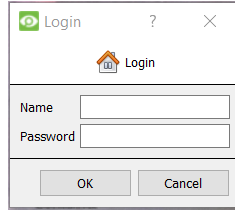
→ Click **Finish**.



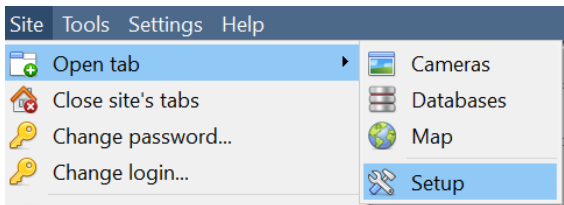
Note: Clicking **Finish** will complete the process of generating the token.

3.4.2.3 Connect a CathesisVision Site to Enterprise

The token must then be entered on CathesisVision client or server software.



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



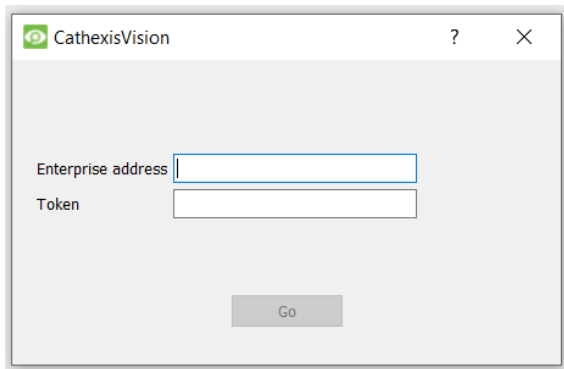
→ Navigate to General setup by following the path: **Site / Open tab / Setup**.



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



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

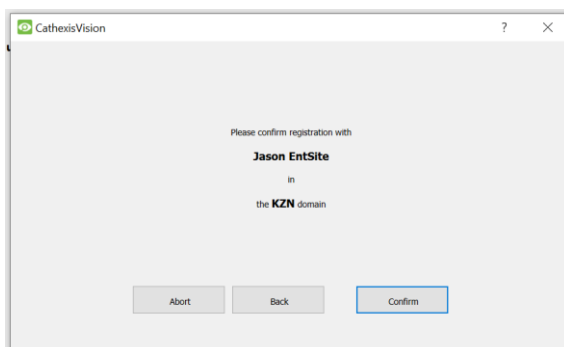


The administrator will provide the **address**.

→ Enter the Enterprise **address**.

→ Enter the **token** code.

→ Click **Go**. A window will open.



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

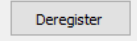
A window will pop up, confirming registration.

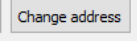


The Enterprise/MultiSite management area will now show that the site has been registered and a connection has been established.



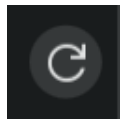
Enterprise registration status: buttons

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

 Click to change the address.


3.4.2.4 View Added Site in Carbon

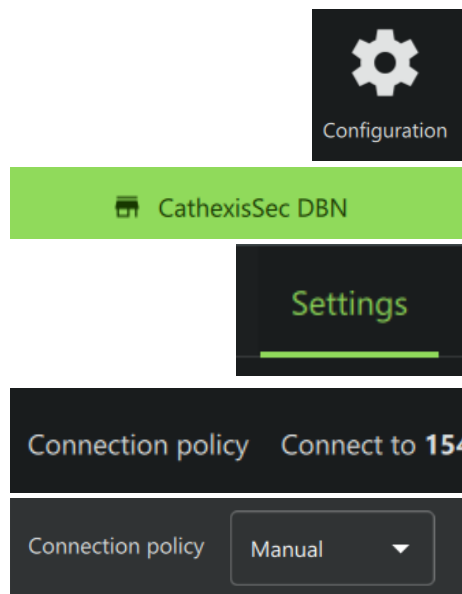
Return to the Resources folder tree in the Configuration tab of Carbon. Once refreshed, the site will appear on the folder tree.



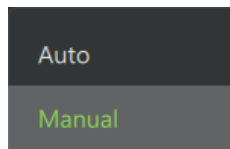
- Click the refresh icon at the top-right of the domain panel.
- The newly-added site will appear in the folder tree.

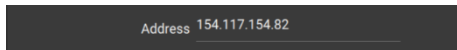
3.4.2.5 Complete Configuration of Site Connection to Enterprise in Carbon

 **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.

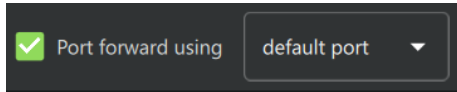


- Click **Configuration** to open a new tab from the home screen.
- Select the **site** in the Domains panel on the left.
- Click the **Settings** tab in the panel on the right. Under Settings, the user may edit the site’s connection policy.
- Click anywhere in the field. The options for editing will appear.
- **Connection policy:** Choose between Manual and Auto. See table below for information on different connection types.





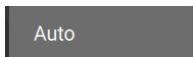
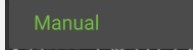
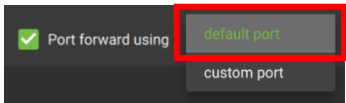
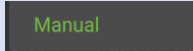
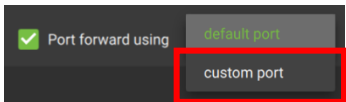
→ **Address (if Manual connection policy is selected):**
Enter the IP address.



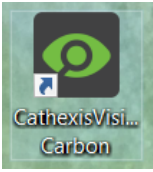
→ **Port forward using:** Choose between default port and custom port.



→ 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> 

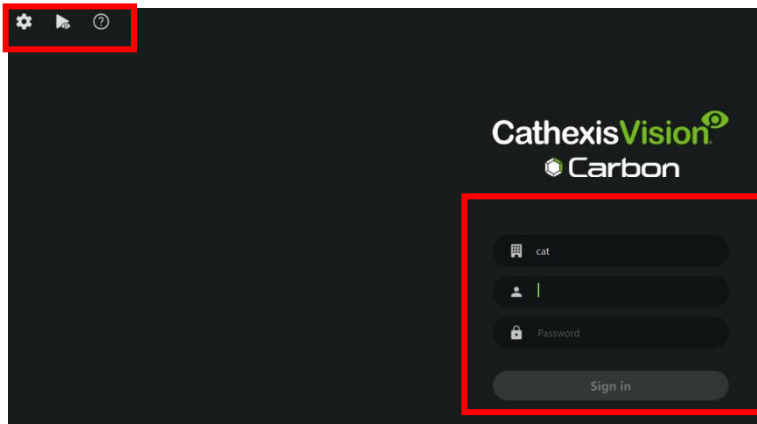
4. General Interface



Double-click the icon to open CathesisVision Carbon.

4.1 Start Screen

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



Application settings ([4.2](#))



Click to open the **Archive Viewer**.



Help Menu: Click to access *Carbon Manual* and *Carbon Operator's Guide*, and to view Carbon information.

Login area ([4.3](#))

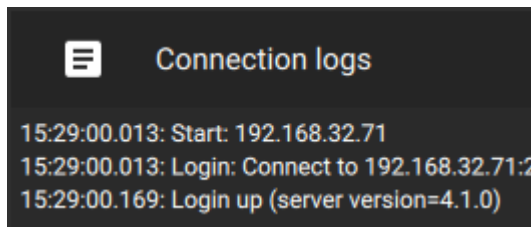


Connection log button in the bottom right corner ([4.1.1](#)).

4.1.1 Connection Logs

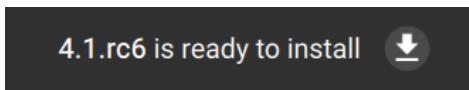


→ Click the Connection log button to display information about the recent connections that have been made through Carbon.



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.

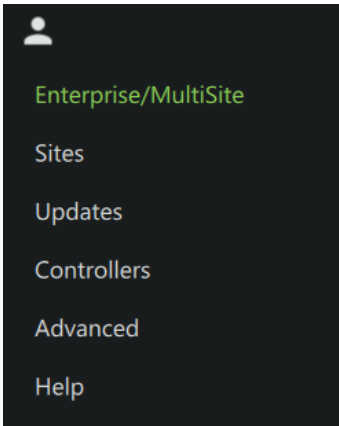
4.2 Application Settings



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



→ Click the **gear icon** in the top-left corner. The window will switch to the following menu.

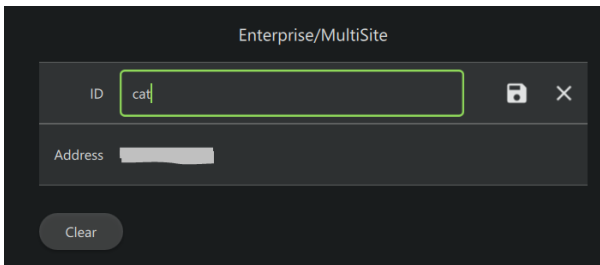


→ To return to the login screen, click the user icon.

→ Click a menu item to open it. Each option is discussed in the sections below.

4.2.1 Enterprise/MultiSite (Edit Connection Properties)

→ Click **Enterprise / MultiSite** in the application settings menu.



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

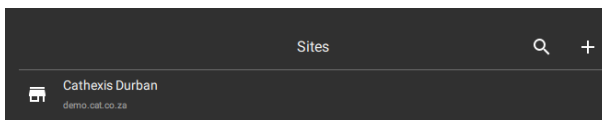
→ Click the **save** icon.

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

→ Click the **save** icon.

4.2.2 Sites (Edit Connection Properties)

→ Click **Sites** in the application settings menu. Available site names and addresses will appear in the main panel in the right of the window.



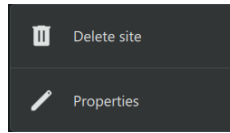
→ Click the plus icon to add a new site. The **New site** dialogue will open.



→ Click the search icon to search the sites. Enter a search term in the field.

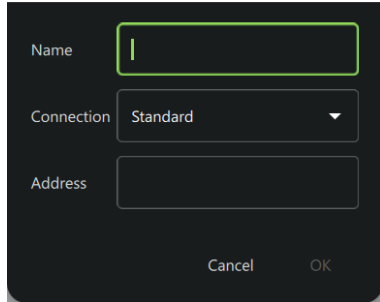


→ To edit a site, **hover** over the field until the **menu icon** appears. Click the icon. A drop-down menu will open.



- Click **Delete site** to remove a site.
- Select **Properties** to edit. A dialogue will open.

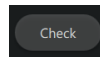
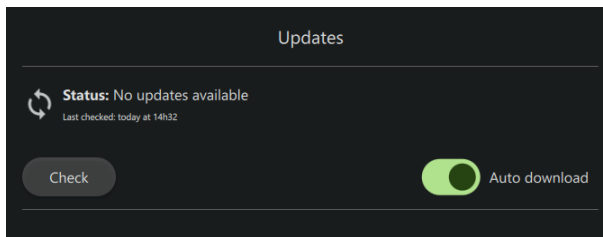
4.2.2.1 Properties



- Change the **Name** and **Address** by re-entering details in the fields.
- Click **OK** to save changes.

4.2.3 Updates

- Click **Updates** in the application settings menu. Options will appear in the main panel in the right of the window.



Click **Check** to see whether a new update is available.



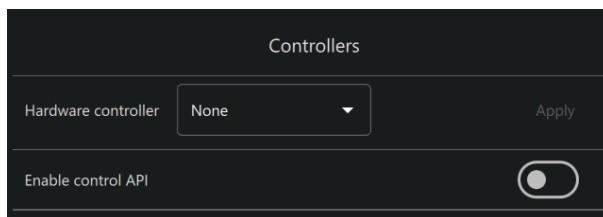
Toggle the **Auto download** button to set up automatic downloads of updates, or to manage updates manually.



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

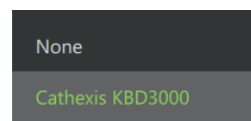
4.2.4 Controllers

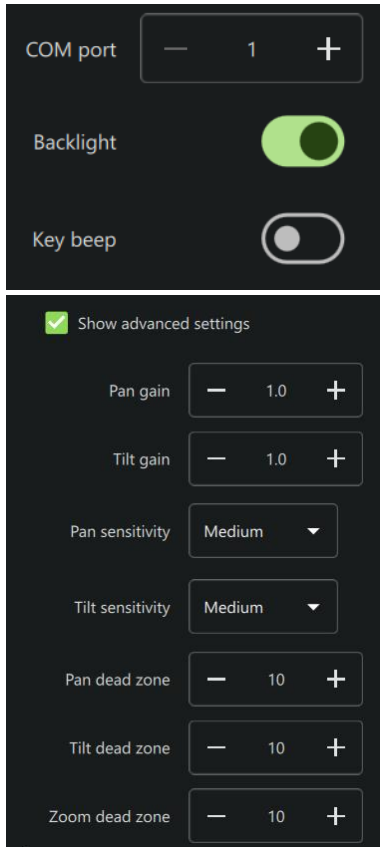
- Click **Controllers** in the application settings menu. Options will appear in the main panel in the right of the window.



- Click the drop-down menu. Further options will open.

- Click **Cathexis KBD3000**.



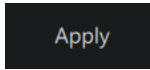


→ Use the **add** and **subtract** buttons to set the COM port (communication port used to transmit data between the machine and the KBD3000).

→ Toggle the buttons to select whether the keyboard will be backlit, and whether key strokes will beep.

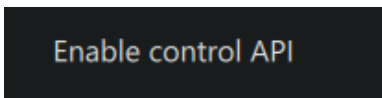
→ Check **Show advanced settings** to configure settings for the Cathexis KBD3000 keyboard joystick.

Pan gain	Pan gain is the multiplier applied to the pan input on the joystick.
Tilt gain	Tilt gain is the multiplier applied to the tilt input on the joystick.
Pan sensitivity	Pan sensitivity is the threshold over which the system responds to changes in a pan input on the joystick.
Tilt sensitivity	Tilt sensitivity is the threshold over which the system responds to changes in a tilt input on the joystick.
Pan dead zone	This is the minimum level of joystick movement from centred/rest before the system responds to a pan input.
Tilt dead zone	This is the minimum level of joystick movement from centred/rest before the system responds to a tilt input.
Zoom dead zone	This is the minimum level of joystick movement from centred/rest before the system responds to a zoom input.



→ Click **Apply** to save changes.








4.2.4.1 Enable Control API



Carbon has an HTTP-based API that gives a third party some basic control over the user interface. For more information, consult the **CathexisVision Carbon API Implementation Guide** (only to be released under NDA).

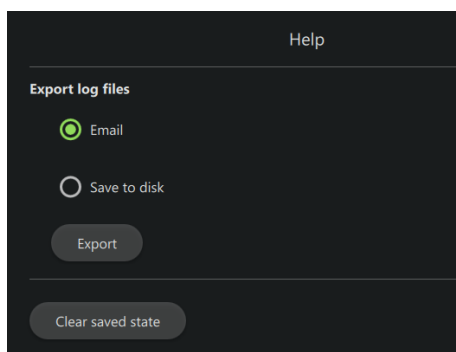
4.2.5 Advanced

→ Click **Advanced** in the application settings menu. Advanced settings options will appear in the main panel in the right of the window.

<p>Change Language</p>	<p>Click the drop-down menu to select a Language. Changes will save upon exit.</p>
<p>Change Window Count (Window count refers to the number of windows open on the desktop.)</p>	<p> → To edit Window count, hover over the field until the edit icon appears, and click it. The field will become active.</p> <p> → Use the plus and minus signs to increase or decrease the window count.</p> <p> → Then, click the save icon to keep changes.</p>
<p>Change Global Scale Factor (Global scale factor increases the size and appearance of the everything in the user interface. Increase by 1.25 will show the display at 125% of the standard size.)</p>	<p> → To edit Global Scale factor, hover over the field until the edit icon appears, and click. The field will become active.</p> <p> → Use the plus and minus signs to change the scale factor.</p> <p> → Then, click the save icon to keep changes.</p> <p>To increase the size of the timeline only, see Global Settings.</p>
<p>Administrator Access Settings</p>	<p> → Toggle the switch on the Administrator access to enable this feature. This will allow only operating system administrators to be change settings. A dialogue will pop up asking permission for the app to make changes to device.</p> <p>→ Click Yes to enable the administrator-only feature.</p>
<p>Prompt when quitting</p>	<p>Toggle the button to select whether a prompt should appear when quitting.</p>

4.2.6 Help

→ Click **Help** in the application settings menu. Options will appear in the main panel in the right of the window.



Select from options to

- Email log files or
- Save to disk.

→ Click **Export**.

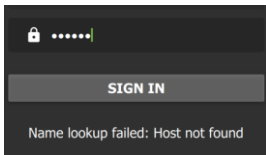
Use the **Clear saved state** button to reset the saved tabs from the previous session.

4.3 Log In

To log in:



- If the additional field is displayed in the top row, click the field to open the **Select connection** dialogue. Then select the connection type.
- Enter the username
- Enter the password.
- Click **Sign in**.

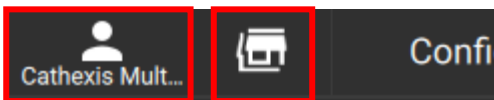


Note: If the **Name lookup failed** error message is received, there may be a problem with the internet or network **connection**.

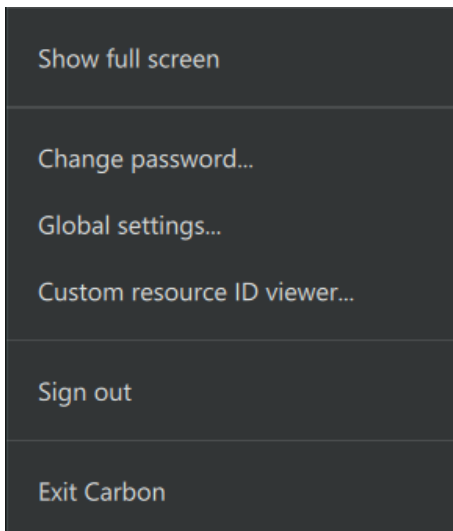
Contact the system administrator to check the connection.

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.

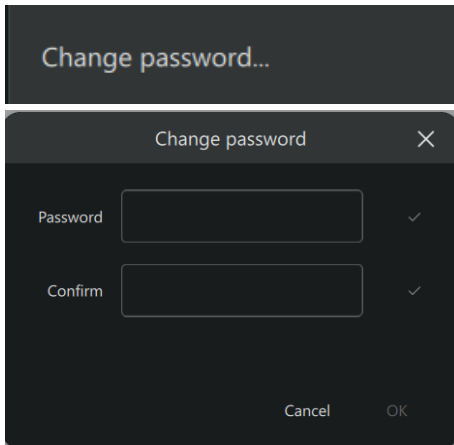


- Click the **user icon** to configure further settings.
- Click the **server icon** to check server details.



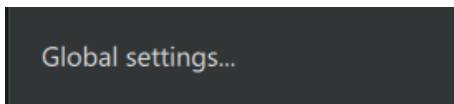
The further settings menu options are discussed in the sections below.

4.4.1 Further Settings: Change Password



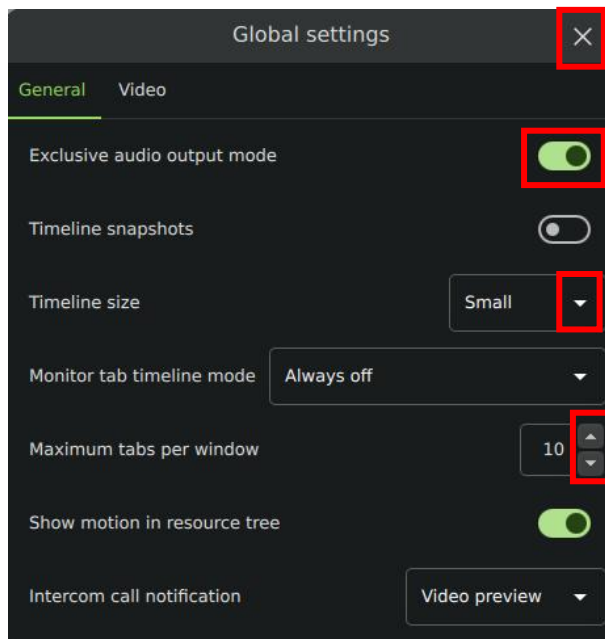
- Click **Change password** in the further settings menu. The **Change password** dialogue will open.
- Enter the new password settings.
- Click **OK**.

4.4.2 Further Settings: Global Settings



- Click **Global settings** in the further settings menu to make global changes to the interface. The **Global settings** dialogue will open.

4.4.2.1 General Tab

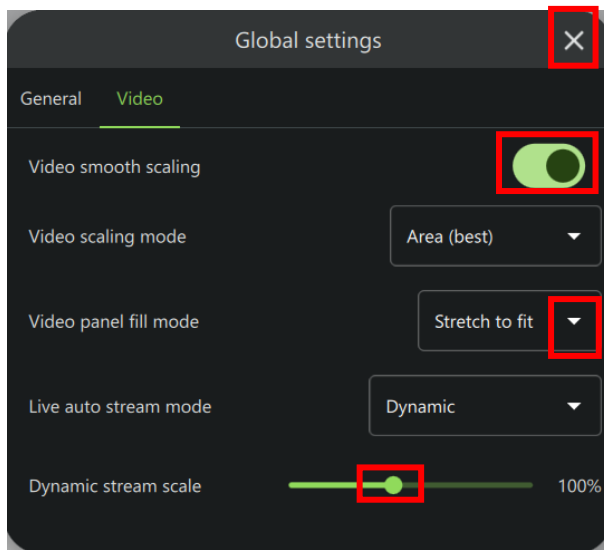


- Click the **cancel icon** at any time to **exit**. This will **save changes**.
- **Toggle the switches** to enable or disable features.
- **Click the drop-down menus** to see more options. Then click to select.
- **Click the arrows** to increase or decrease quantities.

Global Settings	Details
Exclusive audio output mode	This allows audio to play for only one camera at a time.
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: Small, Medium or Large.

Monitoring tab timeline mode	Choose to see the timeline in the Monitoring tab at certain times only, or at all times: Always on, Review only, Always off, Review on, or 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.
Show motion in resource tree	An icon will indicate when there is motion on cameras listed in the resource tree.
Intercom call notification	If intercoms have been set up, select the intercom call notification: None, Ring, Popup, or Video preview.

4.4.2.2 Video Tab



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.

Drag the node to adjust the percentage.

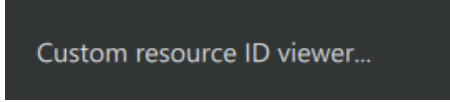
Global Settings	Details
Video smooth scaling	This fits cameras into displays using a higher performance mode. It offers better picture quality and takes more processing power.
Video scaling mode	Choose between options for better video image quality or faster performance: Area (best) or Bilinear (fastest).
Video panel fill mode	Choose how the video feed fills the display panels: Normal, Crop to fit or Stretch to fit.
Live auto stream mode	Choose Dynamic, Highest resolution or Lowest resolution.
Dynamic stream scale	This percentage refers to the calculation used by the video subsystem to pick a stream that is appropriate for the display panel's resolution. For example, if a panel has a resolution of 600x400 pixels and the dynamic stream scale is set to 100%, the server will try to match the resolution of 600x400 as closely as possible. If this scale is set to 50%, the server will try to match a resolution of 300x200 pixels.

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

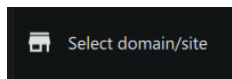
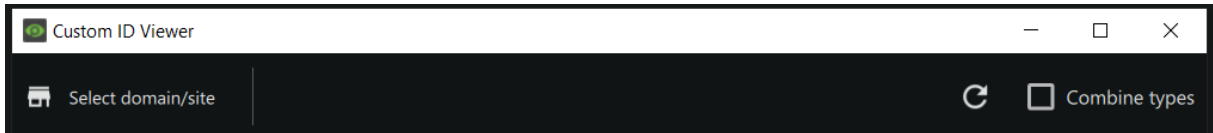
4.4.3 Custom Resource ID Viewer

The **Custom Resource ID Viewer** shows the custom resource IDs that have been assigned to resources.

Note: Currently, custom resource IDs are only used for control of the Cathexis KBD3000 keyboard.



→ Click **Custom resource ID viewer** in the further settings menu. The **Custom ID Viewer** will open.



→ Click the field. A dialogue will open.

→ Select a domain or site and click **OK**.

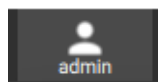
The dialogue will show all resources that have been assigned a custom ID, used in the operation of the Cathexis KBD3000 keyboard.

4.4.3.1 Set Custom ID

Custom IDs must be set in the Configuration tab of Carbon. Refer to [Set Custom ID](#) for instructions.

4.4.4 Signing Out: Return to Menu

In order to sign in to another account, log out and return to the main menu. To do that:

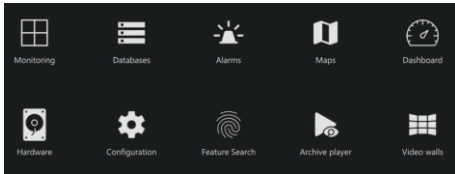


→ Click the **user icon** at the top of the screen. A menu will open.



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

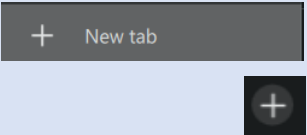
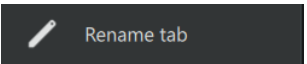
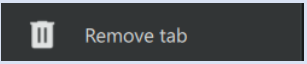
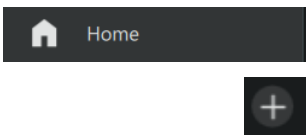

4.5 Home Menu Tab



Navigate Carbon by opening tabs from the home menu. Tabs remain open during a session and will be saved automatically for the next session.

→ Click a menu item and it will open as a new tab. All open tabs can be viewed along the top of the screen.

4.5.1 Using Tabs

<p>Add a new tab</p> 	<p>→ Right-click on a tab. A menu will appear.</p> <p>→ Click New tab. The Home Menu will open.</p> <p>→ Alternatively, click the plus icon at the top of the screen.</p>
<p>Rename tab</p> 	<p>→ Right-click on a tab. A menu will appear.</p> <p>→ Select Rename tab to rename the selected tab.</p>
<p>Remove tab</p> 	<p>→ Right-click on a tab. A menu will appear.</p> <p>→ Select Remove tab to remove the selected tab.</p>
<p>Return to Home Menu tab</p> 	<p>→ Right-click on a tab. A menu will appear.</p> <p>→ Select Home to return to the Home Menu in the selected tab.</p> <p>→ Alternatively, click the plus icon at the top of the screen. This will open a new <i>home menu tab</i>.</p>
<p>Close tab</p> 	<p>→ Hover the mouse over the tab label until the cancel icon appears. Click the cancel icon to close the tab.</p>

4.6 Fullscreen

To switch to a fullscreen view, press the **F11 key**. To switch out of fullscreen, press the **F11 key**.

4.7 Intercoms

It is possible to add an intercom to the CathexisVision NVR (2024 onward) using cameras that have audio inputs and outputs. Intercoms can then be monitored from the Carbon client interface.

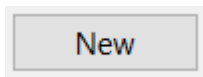
When adding an intercom to the NVR, select the following NVR resources:

- A **camera** with an **audio I/O**
- A **button/input** for the call button
- A **relay output** resource (for example, a switch to control a gate)

Selecting the above resources together will create an intercom.

4.7.1 Add Intercom in CathexisVision

Open CathexisVision and follow the path: **Site / Open tab / Setup / Configure servers / Intercoms**



→ Click **New**. The **New intercom** window will open.

→ Enter a name for the new intercom.

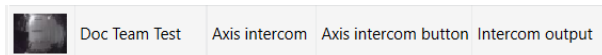
→ Select a camera.

→ Click **Add** to select an input.

Note: Consult the relevant camera manufacturer’s documentation to check if further configuration is required to connect an input or output to the camera.

→ Click **Add** to select an output.

→ Click **OK** to save changes.



The intercom will be displayed in the list of intercoms in CathexisVision. It will be also be available to select in the Carbon UI.



Before adding an intercom to a user in Carbon, that user must first be granted permission to interact with the intercom. This must be done in the Configuration tab of Carbon.

Note: Administrator users for sites will have access to intercom resources automatically.

Configuration tab / Users / Right-click user name / Properties / Permissions / Intercom channels / Add channel

4.7.2 Add Intercom in Carbon

Return to Carbon and log in to the NVR installation where the intercom has been added.

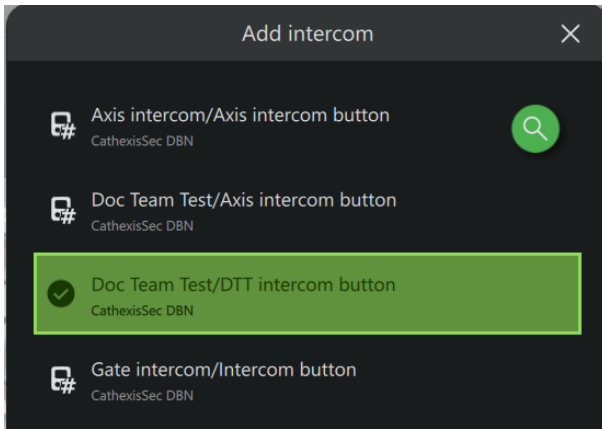
For a Carbon user to use an intercom, it is necessary to add the intercom in Carbon for that user.



→ Click the intercom icon in the top-right corner of the interface. The Active intercoms pop-up will open.

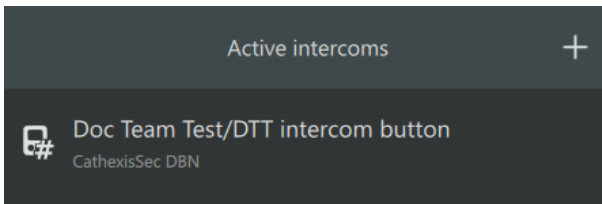


→ Click the plus icon. The **Add intercom** dialogue will open.



→ Select an intercom.

→ Click **OK** to save changes.



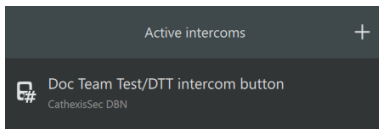
The intercom will appear in the list of active intercoms connected to the Carbon user.

4.7.3 Open Intercom/Make a Call in Carbon

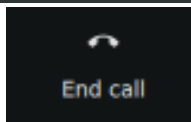
To call the intercom:



→ Click the intercom icon in the top-right corner of the interface. The **Active intercoms** pop-up will open.



→ Double-click the intercom name. The intercom window will open and the intercom will be called.



→ Click **End call** to end the call.

4.7.4 Receive a Call in Carbon

Once a Carbon user has been connected to an intercom, the user will receive notifications from that intercom through the Carbon UI (when a call is received).



- To accept the call, click **Accept**.
- To reject the call, click **Reject**.

Note: Intercom previews will be displayed on incoming calls if this type of intercom notification has been set up in Carbon's Global settings.

(Log in to Carbon / Click User / Global settings / General tab / Intercom call notification)

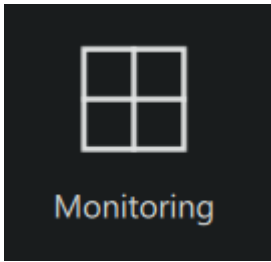


- Click the intercom output button to toggle the relay output.

(For example, a relay output could be toggled to open a gate, once the operator has spoken to the individual who called the intercom.)

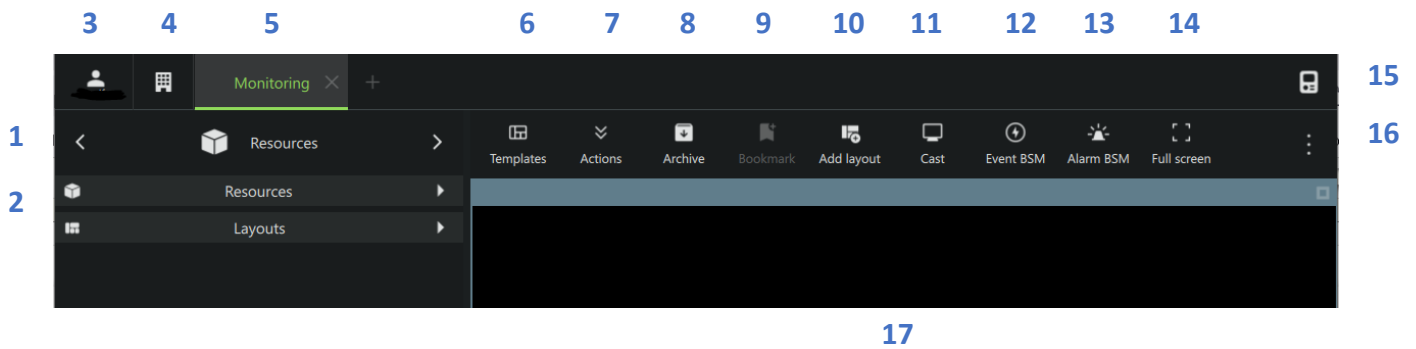
5. Monitoring Tab

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

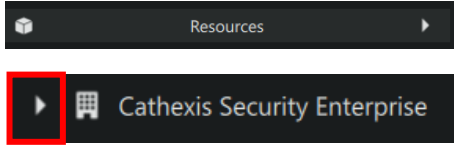


	Description
1	Click the arrows on the left and right to move between Resources , Bookmarks , Layouts , and Cameras with Activity . Alternatively, click on the name to display a drop-down menu.
2	Click to view saved layouts and resources .
3	Click the user icon to configure Global settings, Show full screen, Sign out, or Exit Carbon.
4	Click 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.
7	Click to switch all feeds to live, review all live feeds, pause/resume all feeds, or clear panels.
8	Click to open the Archive builder .
9	Click to open Bookmarks .
10	Click to add a layout .
11	Click to send/cast a layout to a monitor .
12	Click to open Event black screen monitor .
13	Click to open Alarm black screen monitor .
14	Click to make the monitor panels full screen.
15	Intercom button
16	Monitoring Tab Settings Menu
17	Camera Panel Display

5.2 The Resource Folder Tree

Navigate the folder tree on the left sidebar to access resources.

5.2.1 Using the Folder Tree



→ Click **Resources** to expand the drawer.

→ To expand the folders in the resource tree, click the **arrows** next to the folder names.

Resource icons indicate the type of resources.



Cameras



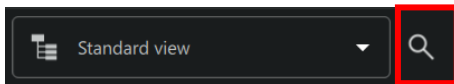
PTZ cameras



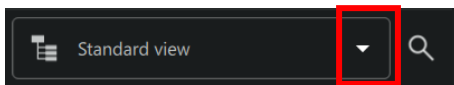
Maps



Event groups



→ Click the search icon to search resources. The type a term in the search bar that opens.



→ Click the arrow to select Standard or Server view.

Standard view lists resources by resource type.

Server view lists resources according to NVR.



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



A red camera or icon indicate the resource is offline.

5.2.2 Resource View Editor

The **Resource view editor** allows the operator to customise the resource folder tree. There are two ways to open the Resource View Editor:

Option 1: Monitoring Tab Options Menu

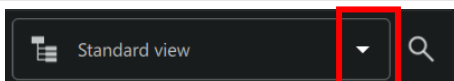


→ Click the **menu icon** on the top right corner.

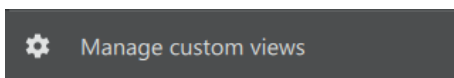


→ Select **Resource view editor** from the drop-down menu.

Option 2: Resources Panel Drop-Down



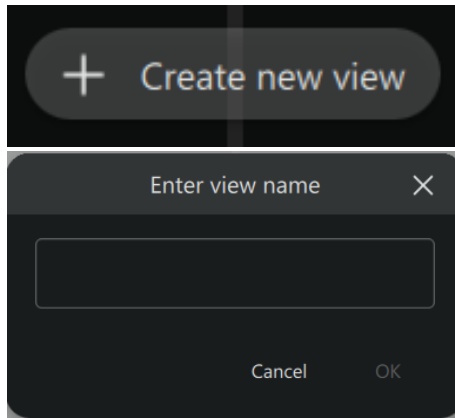
→ In the side panel, click the drop-down arrow next to the resource view heading.



→ Click **Manage custom views**.

5.2.2.1 Create a Custom Resource View

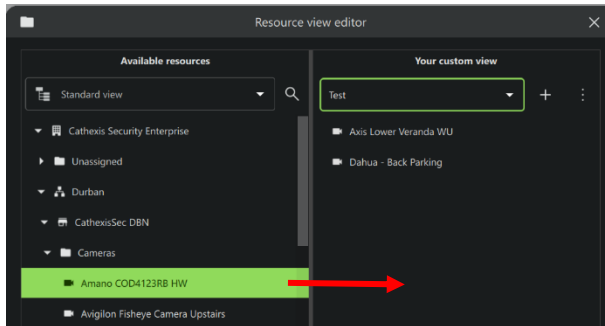
The options presented in the **Resource view editor** depend on whether a custom resource view has been created already.



→ Either click **Create new view** or click the **plus icon (+)** in the right panel of the Resource view editor.

→ Enter a name for the custom resource view.

→ Click **OK**.

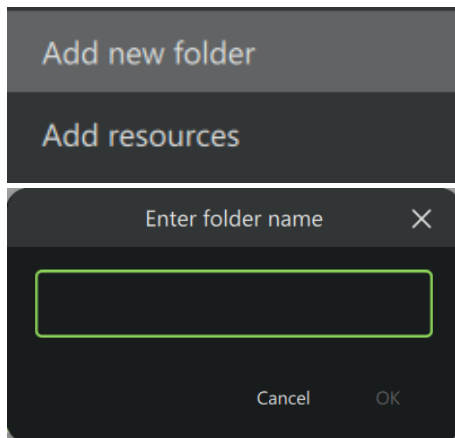


→ Click+drag resources from the folder tree on the left into the custom view panel on the right.

→ Shift+click to select multiple resources.

Changes will save on exit.

Add a folder to a custom view

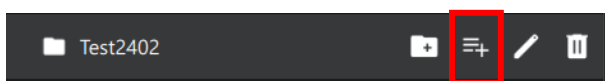


→ Right-click in the right panel in the **Resource view editor**.

→ Click **Add new folder**.

→ Enter a name for the folder.

→ Click **OK**.



→ Click+drag resources from the folder tree on the left into the folder on the right.

→ Shift+click to select multiple resources.

→ Alternatively, hover the mouse over the folder. Click the **add resource** icon. The **Add resources** dialogue will open.

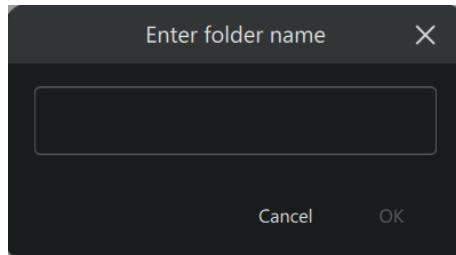
→ Select resources from the list.

→ Click **OK**.

Add a sub-folder to a custom view



→ Hover the mouse over the folder in the right panel of the Resource view editor. Click the **folder** icon.



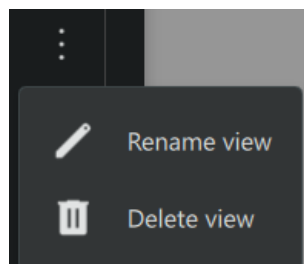
→ Enter a name for the sub-folder.
→ Click OK.

Delete a Resource, Folder, or Custom View



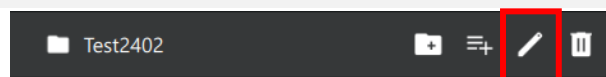
→ **Delete a resource from a custom view:** Hover the cursor over the resource. The delete icon will appear. Click it.

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

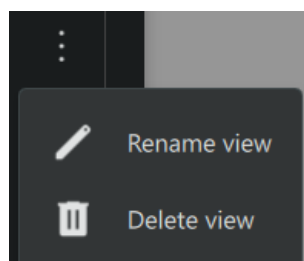


→ **Delete custom view:** Click the menu icon to the right of the custom view name. Click **Delete view**.

Rename a Folder or Custom View



→ **Rename a folder in a custom view:** Hover the cursor over the resource. The edit icon will appear. Click it.

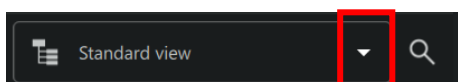


→ **Rename custom view:** Click the menu icon to the right of the custom view name. Click **Rename view**.

→ Enter a new name in the dialogue that opens and click **OK**.

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.

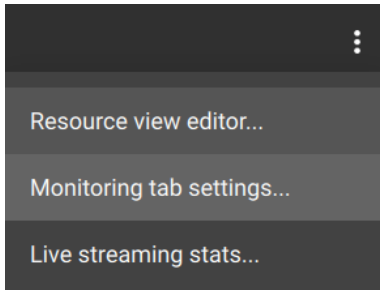


→ In the left side panel, click the drop-down arrow next to the resource view heading.

→ Click the custom view to select it.

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.

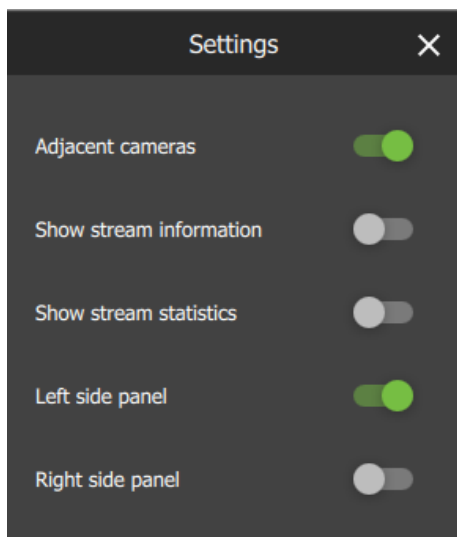


→ Click the **menu icon** (kebab) in the top-right corner. The drop-down menu will open.

→ Click **Resource view editor**, **Monitoring tab settings** or **Live streaming stats**.

Note: See [Resource View Editor](#).

5.3.1 Monitoring Tab Settings



A new dialogue box will appear.

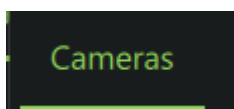
→ **Toggle** the switches to enable or disable settings.

- 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.

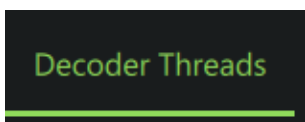
Tip: A second side panel is useful for using the Cameras with Activity feature while monitoring (see [Monitoring Using the Side Panel](#)).

5.3.2 Live Streaming Statistics

Select **Live streaming statistics** as shown above. In the dialogue that opens, the Cameras tab will show statistics about the cameras currently displayed in the Monitoring tab.



In the dialogue that opens, the **Cameras** tab will show statistics about the cameras currently displayed in the Monitoring tab.



In the dialogue that opens, the **Decoder Threads** tab will show statistics about the cameras currently displayed in the Monitoring tab.



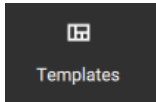
The decoder threads section shows statistics for the parallel video decoder processing threads. These threads allow multiple video decodes to take place simultaneously, yielding improved performance at the cost of extra load on the CPU.

5.4 Templates

Select from various templates, or customise a display by modifying the shape, size, and number of panels.

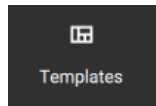
Once a template has been saved, multiple resources can be added to it, and saved, to create a **layout**.

5.4.1 Choose a Template



- To choose a **standard display**, click **Templates** at the top of the screen.
- Then click a template to select it.

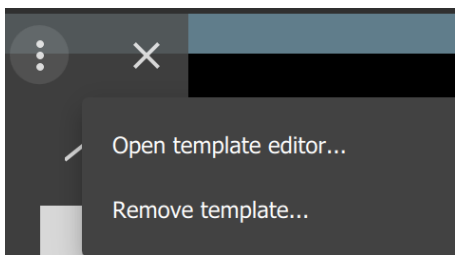
5.4.2 Template Editor: Create a Template



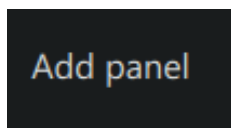
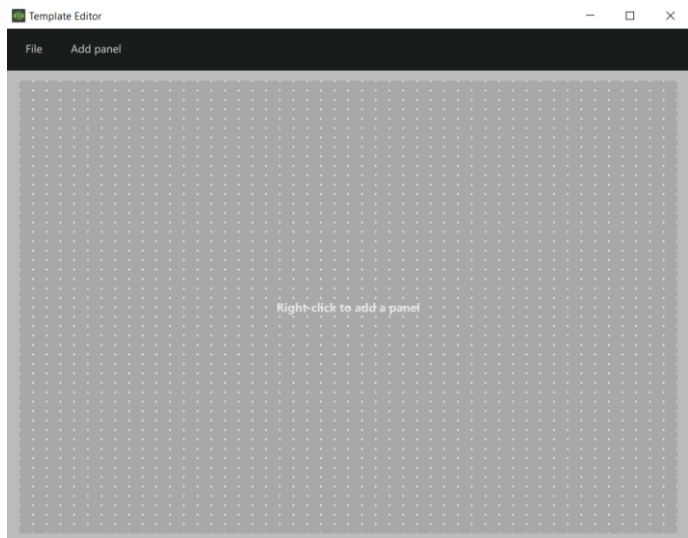
- Click the **Templates** icon at the top of the screen.



- Click the **menu icon** on the top left of the drop-down display.



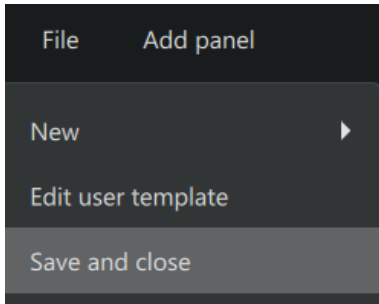
- Click **Open template editor**. The Template Editor will open.



- Click the **Add panel** button at the top of the screen, or right-click and select **Add panel**.



- Use the **resize tool** to increase or decrease the dimensions of the panels.
- Click and **drag panels** to arrange.



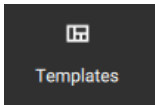
→ To save the template, click the **File** button.

→ Click **Save and close**.

The new template will be listed in the saved templates and can be access by clicking the **Templates** button.

5.4.3 Remove Template

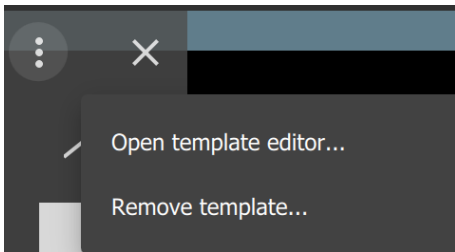
To remove or delete a template:



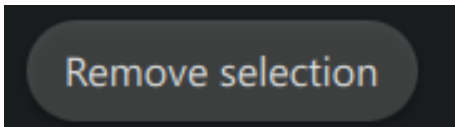
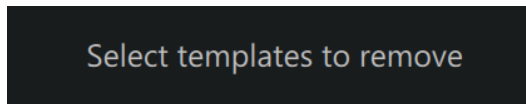
→ Click the Templates icon at the top of the screen.



→ Click the **menu icon** on the top left of the drop-down display.



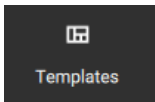
→ Click **Remove template**. A dialogue will open.



→ Select from the list of templates created by the user. Click the template, then click **Remove selection** at the bottom of the screen.

5.4.5 Change 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 at the top of the screen. The saved templates will drop down.

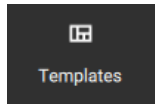
→ Click a new template to select it.

The feeds will rearrange within the new template automatically.

5.5 Layouts

Resources can be added to a template and saved to create a **layout**.

5.5.1 Create Layout

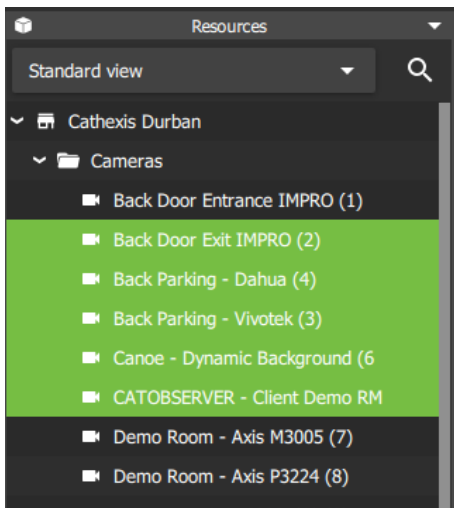


→ To choose a **standard display**, click **Templates** at the top of the screen.

→ Then click a template to select it.



→ Then, in the Resources panel on the left, click the **arrows** next to the resource folders to view lists of individual **resources**.



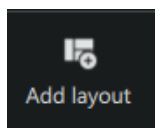
→ **Drag and drop** from the Cameras list onto the display panel.

Note: 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.)

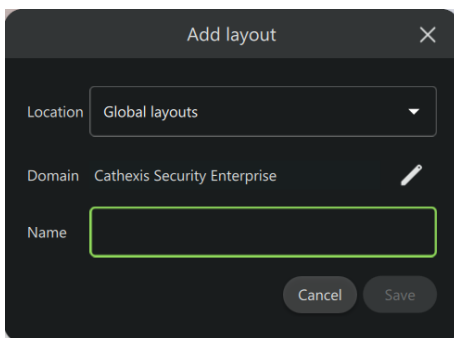
A user may **select and drag** multiple items at once. To select multiple resources:

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.



→ Click the **Add layout** button at the top of the screen. The **Add layout** dialogue will open.



→ Select the location of the new layout and its domain.

Note: Global layouts are visible to other users using the Carbon GUI or CathexisVision Mobile. They are not compatible with the CathexisVision GUI. **My layouts** will only be available to the user who created them. Any layout created using Carbon or CathexisVision Mobile will be available in both the Carbon desktop and CathexisVision Mobile app.

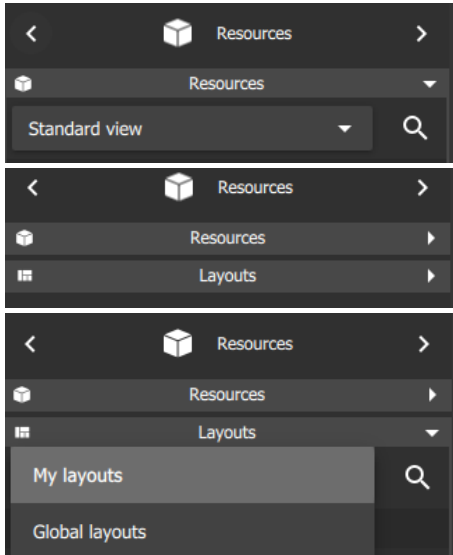
→ Enter a name for the new layout.

→ Click **Save**.

5.5.2 Locate Saved Layout

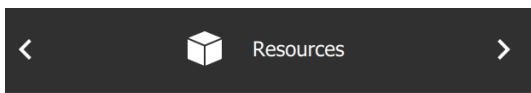
There are two ways of locating a saved layout.

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 below 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 to reach **Layouts**.

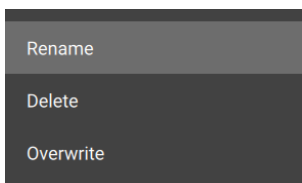
5.5.3 Overwrite Layout

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

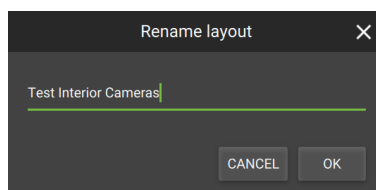


- Go to the **Layouts menu** on the left-hand panel.
- **Right-click** the file/layout name.
- Select **Overwrite** from the drop-down menu.
- Click OK.

5.5.4 Rename or Delete 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.



- To delete a layout, right-click the layout name.
- Click **Delete**.

5.6 Auto Layout and Auto Add Selection

The **Auto layout** and **Auto add selection** tools adapt the display to fit the number of cameras that are added.

Auto layout	Auto layout will replace an existing display with a layout of the selected cameras. Panels containing video will be replaced.
Auto add selection	Auto add selection will add the selected cameras into available panels.

5.6.1 Auto Layout: Add Cameras

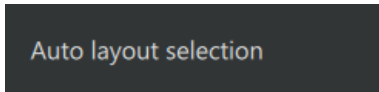
Begin with any template or display.



→ Select cameras from the resource panel on the left. To select multiple cameras:

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. This will include all resources between the first and last clicked item.



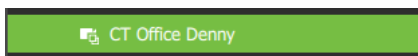
→ Right-click one of the selected cameras.

→ Click **Auto layout selection**. The cameras will open in the display on the right.

5.6.2 Auto Layout: Add Camera Group

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.

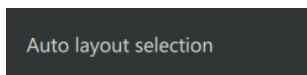
OPTION 1: Right-click



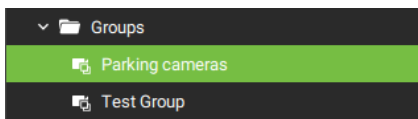
For a site connection:

→ Select the camera group from the list in the left panel.

→ Right-click the group name.



→ Click **Auto layout selection**.



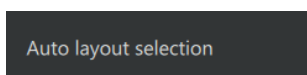
For MultiSite and Enterprise connections:

Camera groups have their own folder in the folder tree.

→ Select the site that the group belongs to.

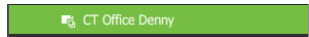
→ Select the Groups folder.

→ Right-click on the group name.



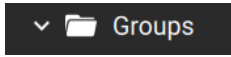
→ Click **Auto layout selection**.

OPTION 2: Drag and Drop



For a site connection:

- Select the **camera group** from the list in the folder tree on the left.
- **Drag** the item from the list into **any display panel** on the right side.

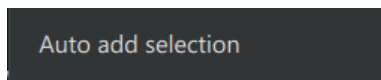


For MultiSite and Enterprise connections:

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

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

5.6.3 Auto Add Selection



- After selecting multiple cameras, right-click.
- Click **Auto add selection**. The selected cameras will be added into available panels.

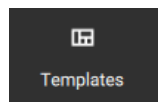
5.7 Event Black Screen Monitoring (BSM)

When Black screen monitoring (BSM) is used, only cameras which generate alarm signals will activate footage in monitors. BSM allows video to be sent to a monitoring panel only when events are detected.

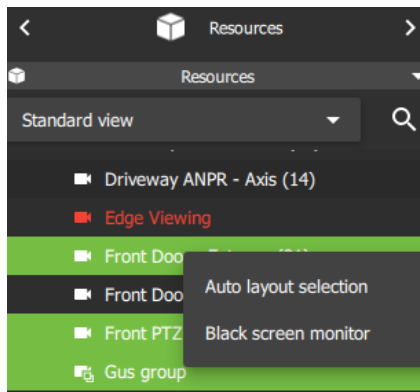


Note: Details of events may be viewed from the Database tab in Carbon, but configuration and setup must be managed from the CathexisVision client interface.

5.7.1 Add Cameras to BSM



- Choose a suitable template or use a single display.
- Select a destination display panel by clicking anywhere within the panel.



To select multiple resources:

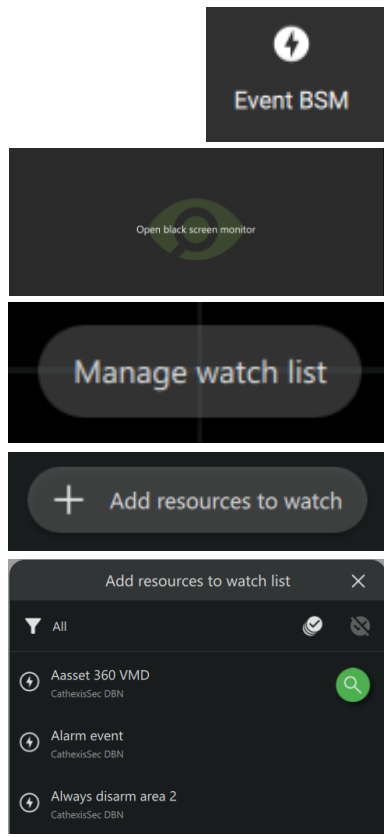
- Ctrl + Click** Hold down Control, and click non-consecutive (separate) items to include.
- Shift + Click** Hold down Shift, and click the first and last item in a list of consecutive items.



- Right-click one of the selected cameras.
- Click **Black screen monitor**. All selected cameras will display in the selected display panel, when there is an event.

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

After BSM cameras have been added to a display panel, it is then possible to open one of those cameras in live mode in another panel. Left-click a camera, and drag and drop into the empty display.







5.7.2 Add VMS Events and Event Groups to BSM



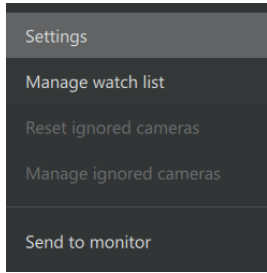
- Click the **Event BSM** button at the top of the Monitoring tab.
- **Click** anywhere within the screen.
- Click the **Manage watch list** button. The **Manage watch list** dialogue will open.
- Click the **Add resources** button, or, click the plus icon in the top right.
- **Select** relevant events or a VMS event group.
 -  Click this icon to select all listed VMS events/groups.
 -  Click this icon to unselect all VMS events/groups listed.
- Click **OK** to add resources to the watch list.

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

-  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.

5.7.2.1 Right-click BSM Menu Options

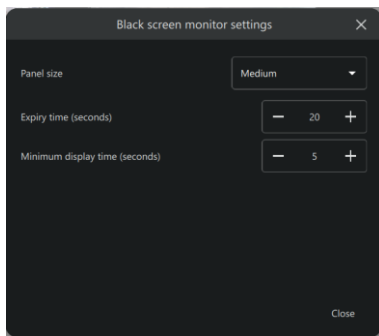


→ **Right-click** a BSM display panel. A drop-down menu will open.

- **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.

→ Adjust **Expiry Time.**

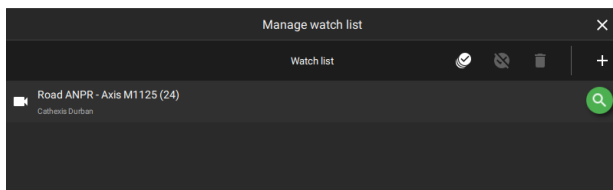
Expiry time is the length of time the camera remains displayed in the monitor after no further activity.

→ Adjust **minimum display time** (seconds) using plus and minus buttons.

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

→ Click **Close** to finish.

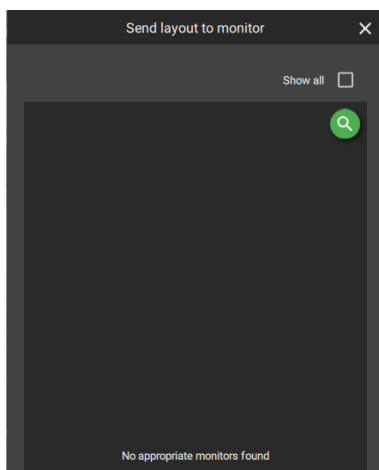
Manage watch list



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 [Controlling the Site Monitor from the Monitoring Tab.](#)

5.8 Viewing and Reviewing Cameras

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

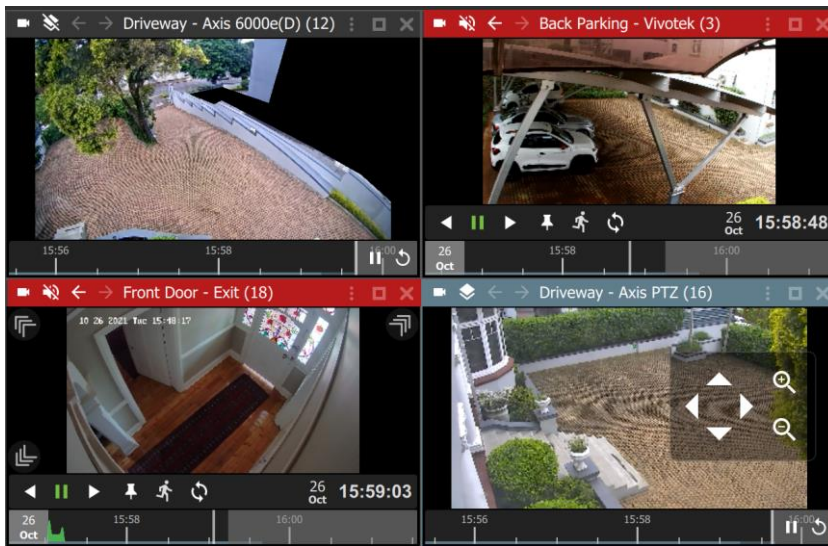
- Live mode allows the user to view a camera in *real time*.
- Review mode allows *recorded video* to be searched, tagged, bookmarked, and archived.

5.8.1 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.

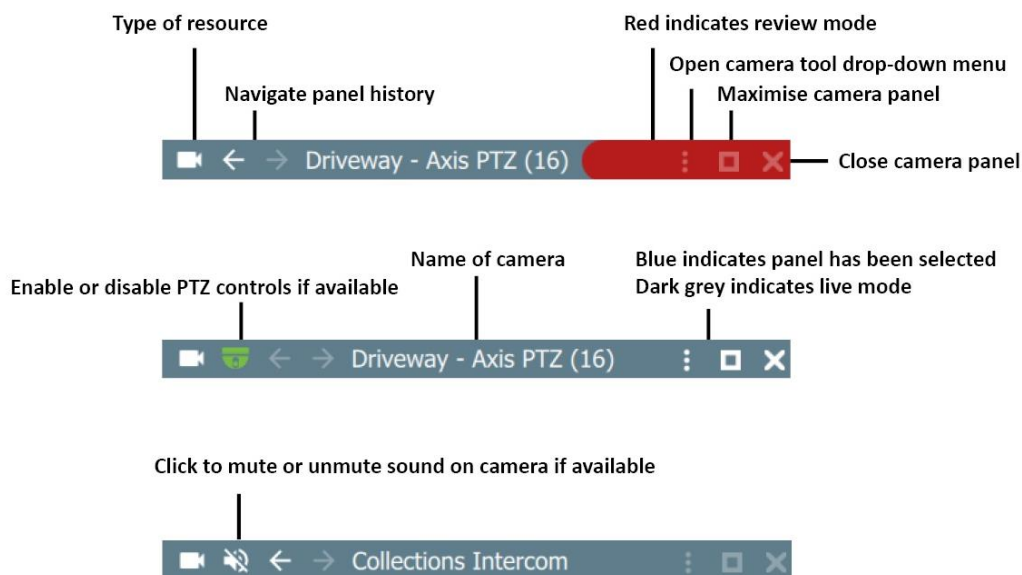


This icon indicates that there is packet loss on the camera.



Top Bar

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.



Top Bar Colours

	Review mode	Not selected
	Live mode	Not selected
	Review mode	Selected
	Live mode	Selected
<p>Note: For an Enterprise or MultiSite connection, the top bar will also indicate which site the camera is from:</p>		

Top Bar Icons

- Click to view further options. See [Review Tools](#) for details on the review panel review tools.
- Click to minimise/maximise the panel.
- Click to close the camera.
- Click to toggle **Activity trails**.

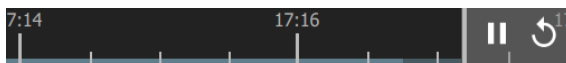
Timeline

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.



- 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.



Timeline Key

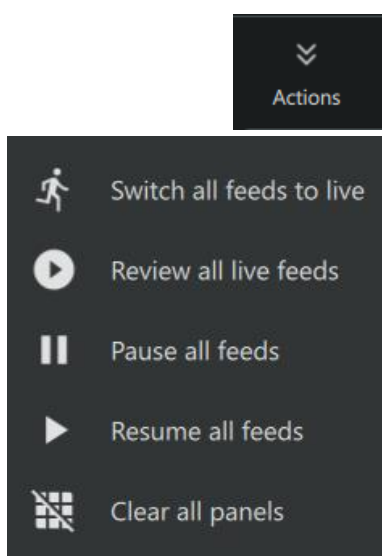
	The thin blue line at the bottom of the bar indicates that there are recordings available (non-event recording).
	No blue line indicates no recordings. No blue line may indicate that a connection is down. Use the dashboard tab to view status.
	The grey area at the end of the timeline represents future time.
	The vertical bar indicates the end of the timeline in live mode, and corresponds with present time.
	A red line indicates event recording.
	The green graph indicates motion. More motion is depicted by a higher crest.

Rearranging Cameras in Display Panels

To move a camera from one display panel to another:

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

5.8.1.1 Actions



→ Click the **Action button** on the top panel to switch between modes. A menu will open.

→ Select from the 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 **Resume all feeds** to resume playback of all feeds.

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.

5.8.1.2 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.

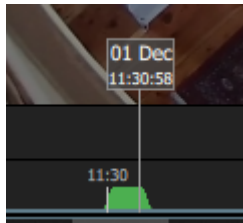


Narrow the time frame (zoom in) by **scrolling up** with the wheel.



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

5.8.1.3 Date and Time Pop-up on Timeline



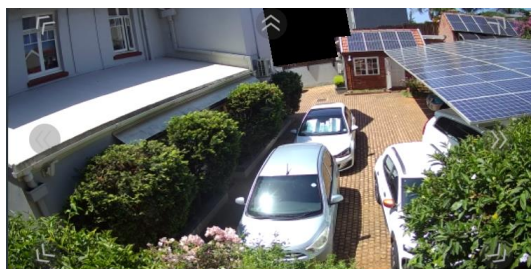
Hover over a point in the timeline to see the date and exact time. A pop-up will appear.

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

5.8.2 Zoom and PTZ

5.8.2.1 Digital Zoom on any Camera

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: [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 to return the monitor to its original view. Alternatively, scroll back on the mouse.

5.8.2.2 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 [PTZ Menu](#).

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

To enable 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 [Camera Tools Menu](#).

→ Click the **PTZ** checkbox.



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.

5.8.2.3 Area Zoom an Axis or Dahua PTZ Camera

The area zoom tool is a quick way to control the camera so that the user can 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.
- **Note:** This feature is only available on 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**.

→ 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.

5.8.3 Adjacent Camera Mapping

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 indicates motion has been detected in the adjacent camera's field.

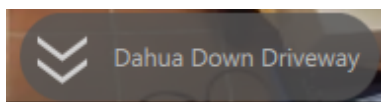


Hover the mouse over the display to show arrows and labels. **Click the arrows** to view the nearby camera in the direction an object is moving.

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

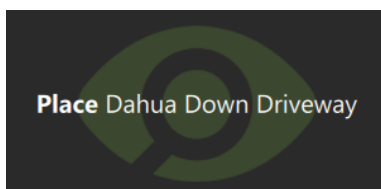
5.8.3.1 Open Adjacent Cameras in a New Display Panel Using a Middle-Click

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.

→ **Middle-click** on the **arrows**. Use a middle button on the mouse or click with the scroll tool. The panels will become greyed out, and the **Place** instruction will appear, along with the name of the adjacent camera.



→ Left-click a display panel. 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.)

5.8.4 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.

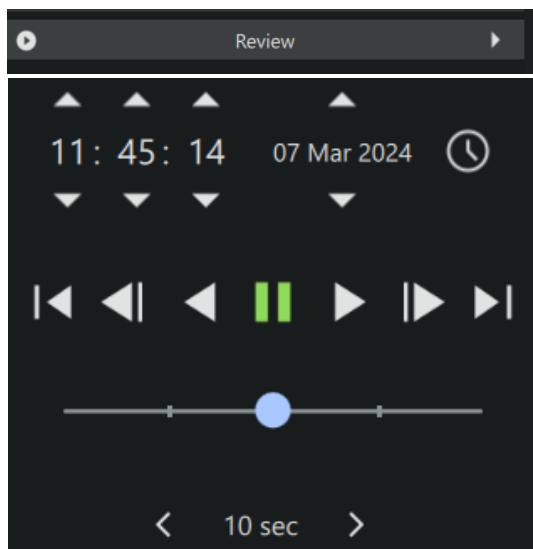
Option	Description								
Copy link	Create a link. Once this has been selected, the link can be pasted into another display panel. Note: Once the link has been copied, the option to paste the link remains in the menu.								
Send to monitor	Send the camera stream being viewed/displayed to a site monitor.								
Switch to review	This allows switching back and forth between live and review footage.								
Start sync review	This 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.								
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	<p>This groups the intelligent search features on this system: Snap search, Motion quick search and Motion search, and Feature Search.</p> <table border="1"> <tbody> <tr> <td>Snap search</td> <td>Use a grid of images to search for an object or incident by narrowing the search range until the it appears in the frame.</td> </tr> <tr> <td>Motion Search (quick)</td> <td>Draw a frame (or mask) within the display and search for motion within that area only.</td> </tr> <tr> <td>Motion Search</td> <td>Draw multiple frames (masks) within the display and search for motion within those areas.</td> </tr> <tr> <td>Feature Search</td> <td>Send an image from the Monitoring tab to the Feature search tool in order to find similar/matching images.</td> </tr> </tbody> </table>	Snap search	Use a grid of images to search for an object or incident by narrowing the search range until the it appears in the frame.	Motion Search (quick)	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.	Feature Search	Send an image from the Monitoring tab to the Feature search tool in order to find similar/matching images.
Snap search	Use a grid of images to search for an object or incident by narrowing the search range until the it appears in the frame.								
Motion Search (quick)	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.								
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.								
Activity trails	Activity trails are time-stamped overlays that depict the trail of motion in a scene.								
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 stream	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.

5.8.5 Review Tools

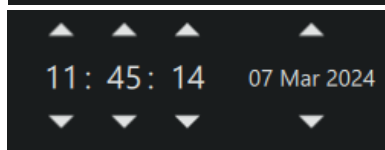
5.8.5.1 Review Menu

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

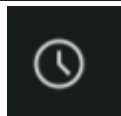


→ Click the bar to open the menu.

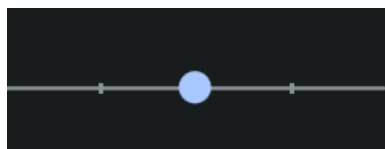
When reviewing footage, the user may use this menu as an alternative to the toolbar in the main display.



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



→ Click the clock icon to bring up the date and time menu using the calendar. The calendar will open in a new dialogue. Click **Done** to save changes.



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

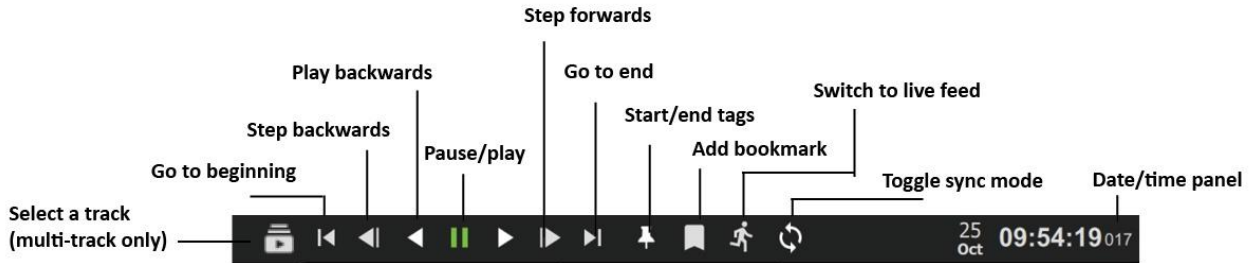
→ Drag the slider to the **left**, (past the vertical lines) or click (up to four times) on the play backwards arrow to **increase the speed** while playing **backwards**.

→ 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**.

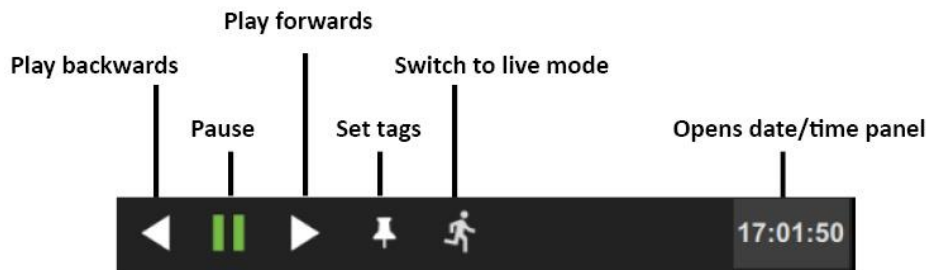
Four dots indicate the maximum speed.

5.8.5.2 Review Controls

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.



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.

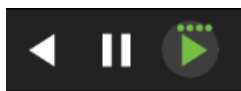
Do the same on the enlarged display to return to the smaller display.

5.8.5.3 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.



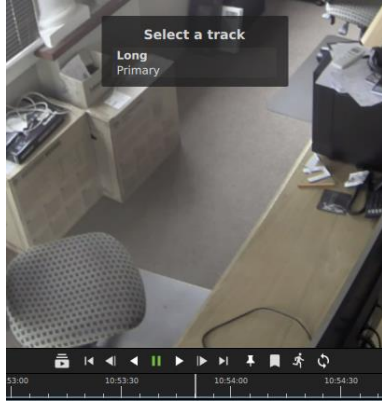
Speed can also be increased when playing backwards.

5.8.5.4 Select Tracks on a Multi-Track Camera

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



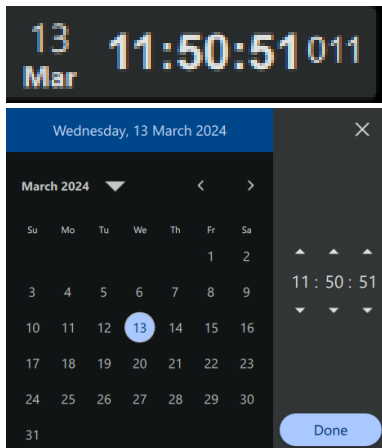
→ Click the icon to select a track.



A list will show on the display.

→ Click an option to select a track.

5.8.5.5 Date and Time Panel



→ Click the date/time panel in the bottom right corner to skip to a known point in time. A calendar will open.

→ Click the date on the calendar, and adjust the time using the arrows.

→ Click **Done**. The footage for this date and time will appear in the main display.

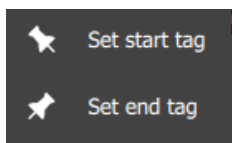
5.8.5.6 Using Tags

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.

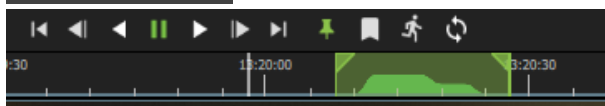


→ Click the tag icon on the review control panel. This will bring up the start and end tag option.



→ Click **Set start tag**.

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

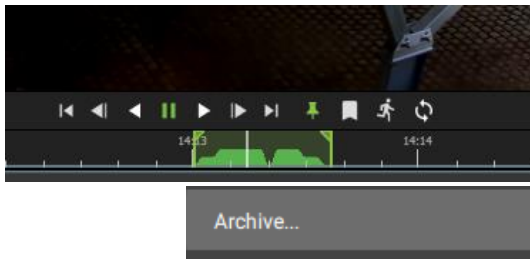


The tags will be displayed on the motion graph.

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.

5.8.5.7 Archiving a Tagged Segment

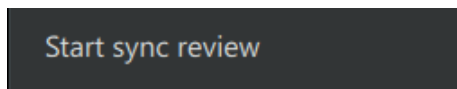


- Set start and end tags.
- **Right-click** on the display.
- Select **Archive**. This will send the tagged segment to the Archive Builder.

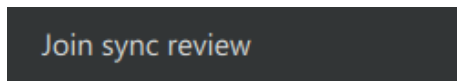
Note: For more information about archiving, see [Archiving](#).

5.8.5.8 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 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 footage.

Toggle Sync Mode

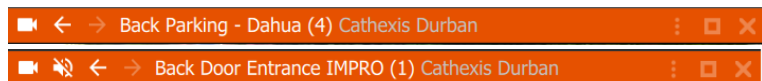


To quickly add a camera to synchronised review, click the Toggle Sync Mode button in the timeline panel.



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.



5.8.6 Archiving

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

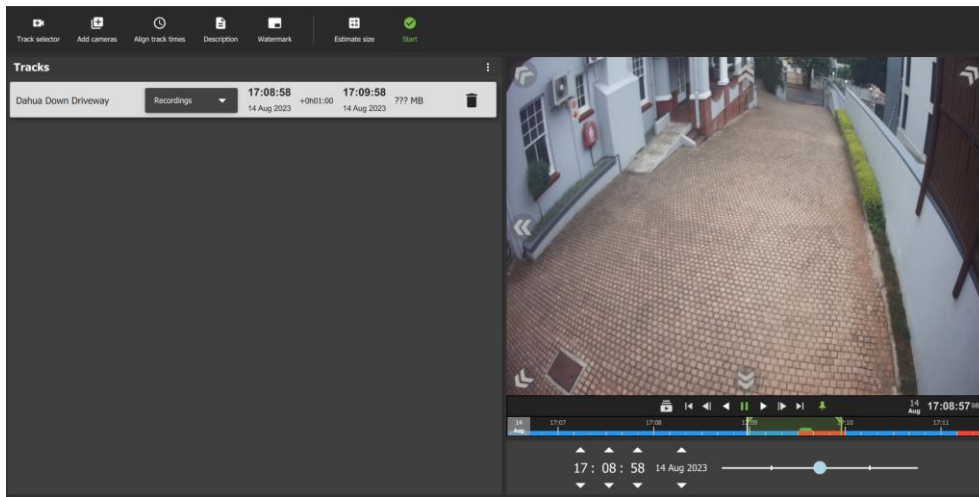
5.8.6.1 Start Archiving

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



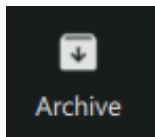
- **Right-click** within the **display**.
- Select **Archive...** from the options. The **Archive Builder** will open in a new tab. One or more cameras will be shown in a list in the central panel.



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.



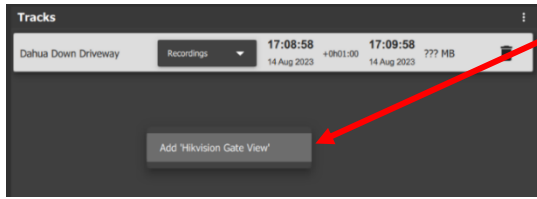
- Click to select the **Archive icon**. The **Archive Builder** will open in a new tab as above.

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

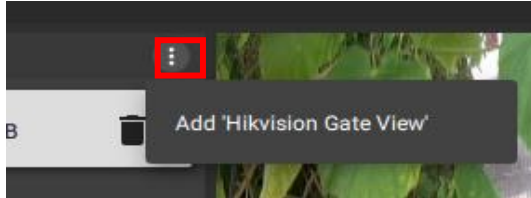


In the Archive builder:

Option 1:

→ **Right-click** underneath the list. The link will appear.

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



Option 2:

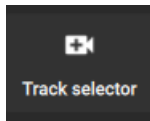
→ Click the menu icon at the top-right side of the Archive builder.

→ **Select** the link when the pop-up appears.

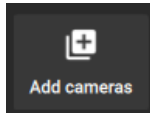
Multiple links from different cameras can be added to the same Archive builder. They will be added in chronological review order, regardless of the order in which they were added to the Archive builder.

5.8.6.2 Adding Cameras in the Archive Builder

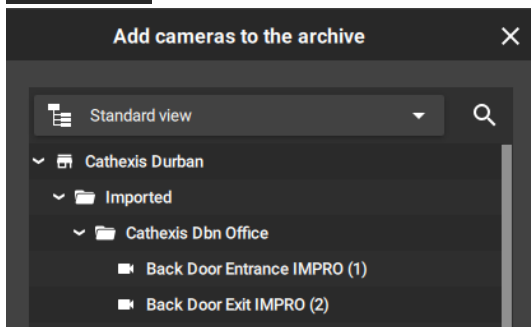
Use the icons to add additional cameras to the archive builder.



→ 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**.

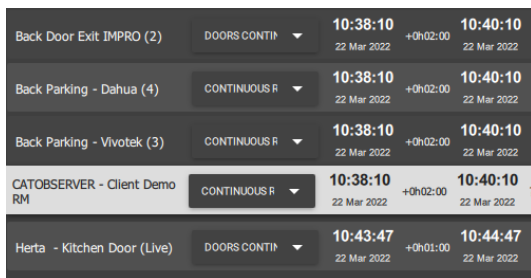


A new dialogue will open.

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

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

→ Click **Add**.

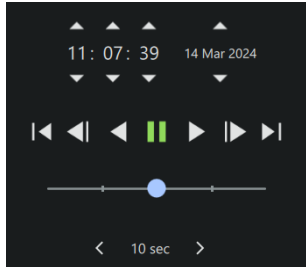


The cameras that have been added using the **add camera icon** or **Add multiple cameras icon** will show in a list in in the Archive Builder.

5.8.6.3 Playback in Archive Builder



- Click the drop-down arrow.
- Select the camera storage option.



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

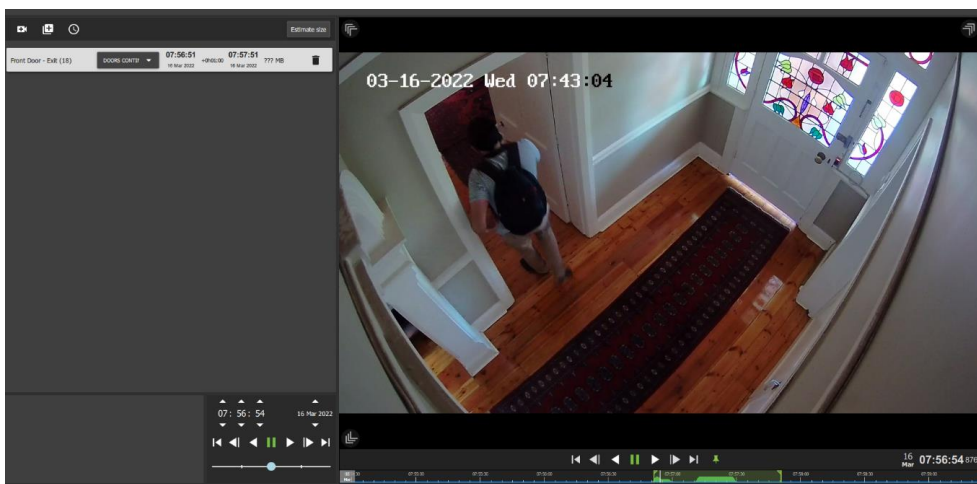
- Drag the slider to the **right** (past the vertical lines) to **increase the speed** while playing **forward**.
- Drag the slider to the **left** (past the vertical lines) to **increase the speed** while playing **backwards**.
- Maximum speed is indicated by four dots.
- Click **Export** to bring up the archive window.

5.8.6.4 Application: Add 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.

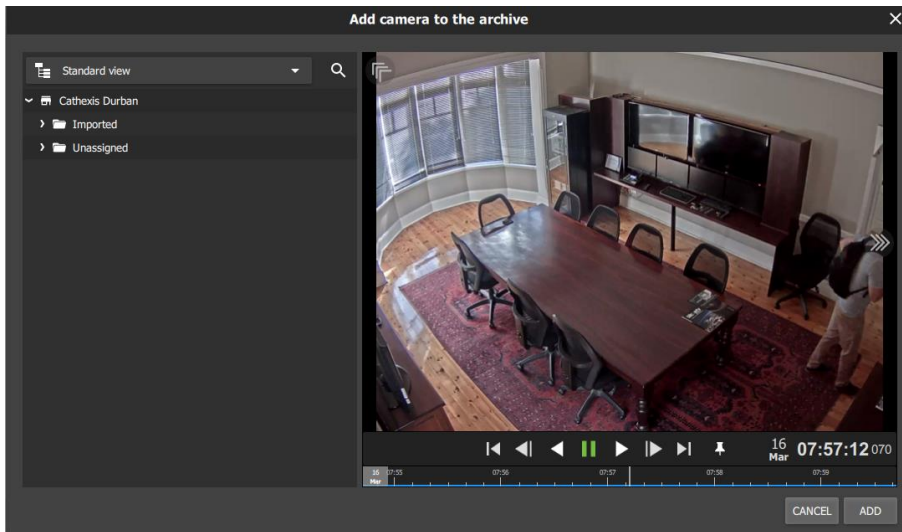
The view below shows a man walking into a room. Nearby cameras will be shown as two small arrows.



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.

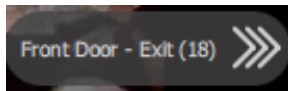


Play forwards or backwards to **watch** the video segment.

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.

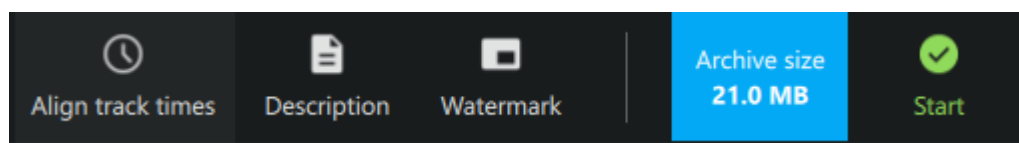


Repeat the steps to **continue tracking** the moving person: click the **next adjacent camera** in the direction the person is moving to add an additional camera to the archive.

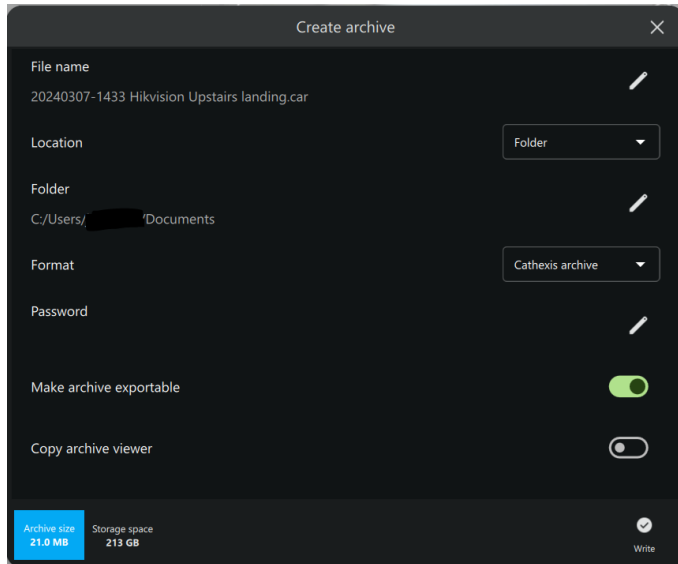
Click **ADD** to complete the step.

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

5.8.6.5 Saving and Exporting

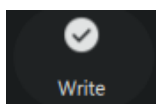


- Use the **Align tool** to make all recordings in the list start and end at the same time.
- Click the **Description** icon to add additional information to the file before saving.
- Click the **Watermark** icon to add a watermark to the files.
- Click **Estimate size** before exporting to see how much space the recordings will require. The **Estimate size** button will change to a blue button indicating the size of the recordings.
- Click **Start** to Export the file/s. A new window will open with configuration settings.

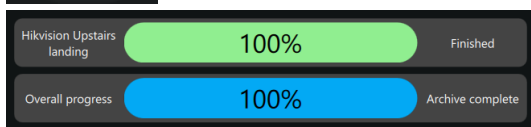


Click the edit icons or drop-down menu arrows to adjust the settings.

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.
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.



→ Click **Write** to complete the archiving process.



Click the **close icon** when the progress bars reach 100%.

5.8.6.6 View 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.

5.8.7 Bookmarks

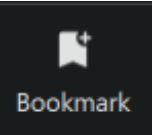
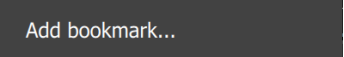

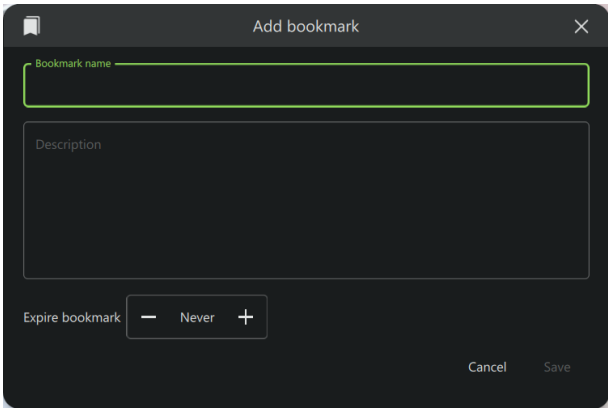
Bookmarking is a feature which preserves a point in time on a camera feed for future reference. The bookmark is stored on the local database as private data for the specific user and will also be available on the mobile application for that user. The bookmark can be *retrieved* from the bookmarks section (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.

5.8.7.1 Create New Bookmark

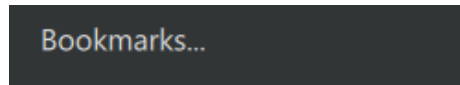
Lay out the camera/s as desired.

MULTIPLE CAMERAS		→ Click the Bookmark icon on the top menu bar. A new dialogue will open.
SINGLE DISPLAY		→ Right-click the single display panel and click Add bookmark from the drop-down menu. A new dialogue will open.
		→ Alternatively, in review mode, click the bookmark button on the review controls. The Add bookmark dialogue will open.
BOTH		<p>→ Give the bookmark an accurate name and description.</p> <p>→ Choose an expiry time for the bookmark by clicking the plus and minus icons to add or decrease the number of days.</p> <p>→ Click Save.</p> <p>Note: Once past video recordings have been deleted, bookmarks will no longer be valid.</p>

5.8.7.2 View Bookmarks / Open Saved Bookmarks

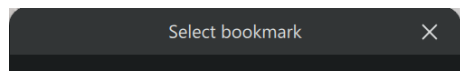
Once bookmarks are created, they can be viewed and managed in the bookmarks section.

Option 1: View Bookmark by Camera or Layout



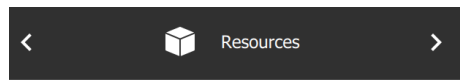
→ Right-click a camera in the display panel. Alternatively, click the menu icon in the top-right corner to open the Camera Tools menu.

→ Click **Bookmarks**. The **Select bookmark** dialogue will open.



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

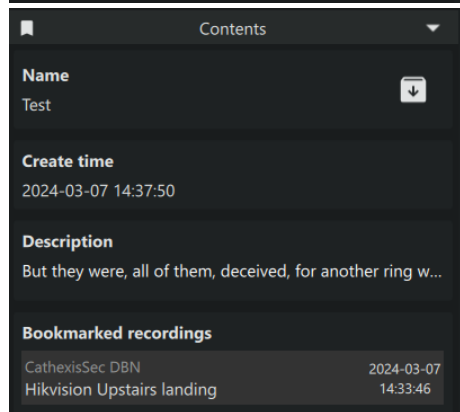
Option 2: View All Bookmarks from Menu



→ From Resources, **click the side arrows** to scroll. Click the right arrow once. Bookmarks should appear next.



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

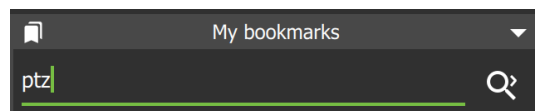


Selecting a bookmark will cause the **Contents bar** at the bottom of the screen to open. This will display details of the selected bookmarked recording.



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

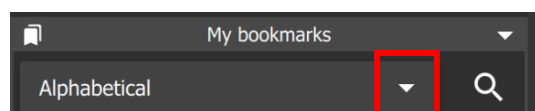
5.8.7.3 Search Results



→ 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.

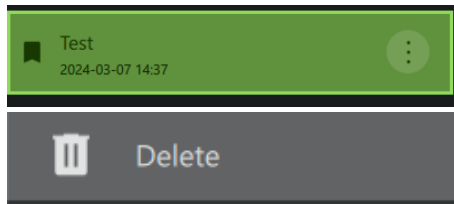
5.8.7.4 Sort Results



→ 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.

5.8.7.5 Delete Bookmark

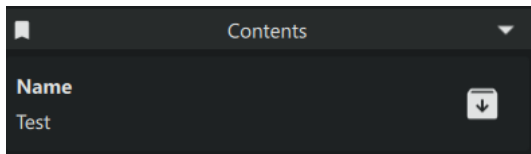


→ To delete an item, **hover** over an item on the list until the menu icon appears. Click to select.

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

5.8.7.6 Archive Bookmark

Archiving allows a selection of camera footage to be *saved and exported*. Use the Bookmarks section on the sidebar to locate and open the bookmark.

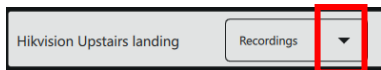
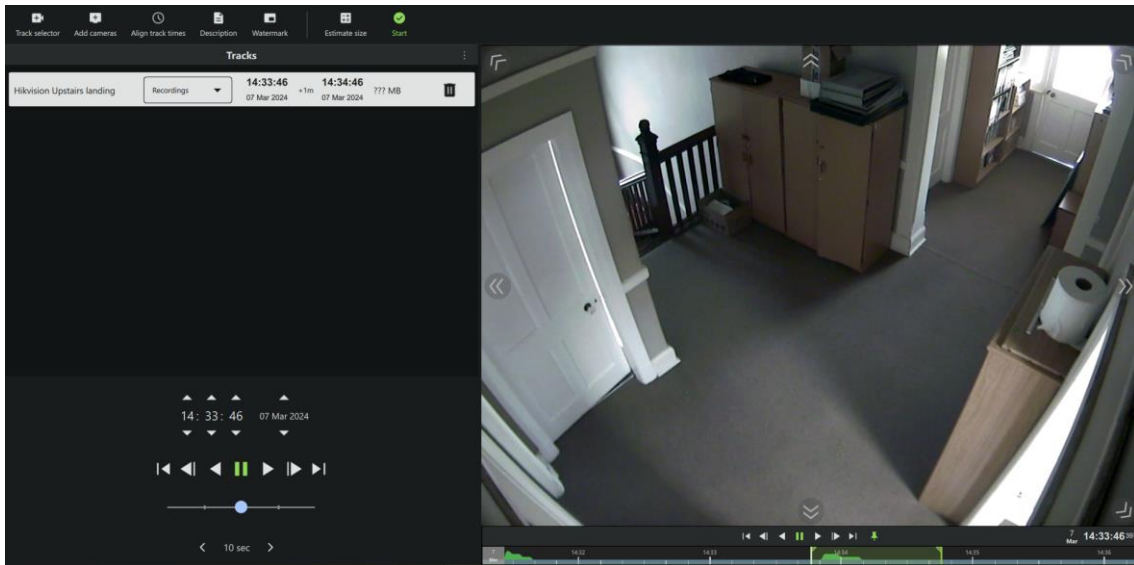


→ Once the bookmark has been selected, click the **Contents bar** at the bottom of the screen to open the contents section.

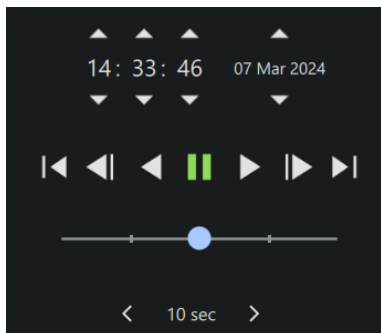


→ To archive the bookmark, **select the archive icon** next to the bookmark title.

The **Archive Builder** will open in a new window. One or more cameras will be listed in the left panel.



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



→ 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**.

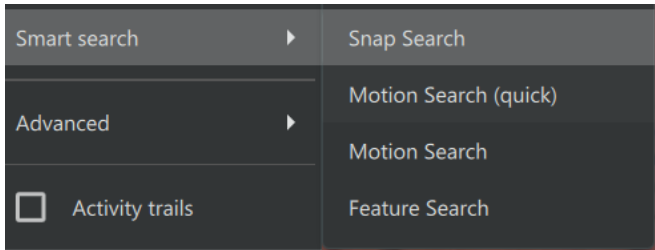
→ Maximum speed (4x) is indicated by four dots.

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

→ See [Archiving](#) for more information about archiving.

5.8.8 Snap Search

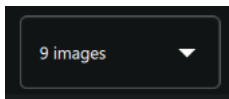
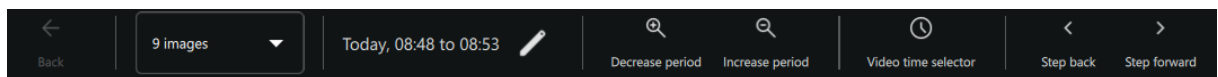
The supported Smart Search features are [Snap Search](#), [Motion Search \(Quick\)](#), [Motion Search](#), and [Feature Search](#). **Note:** Snap Search works in *review mode*.



- Switch to **review mode**.
- 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.

5.8.8.1 Snap Search Window: Basics

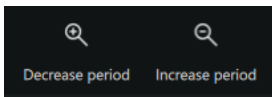


Frame display. Change the number of still images displayed in the frame area by selecting from the drop-down menu.

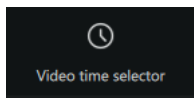
- Click to select the number of frames/images to be viewed at one time.



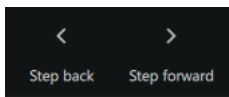
- Click the **edit icon** to change the date and time range manually.



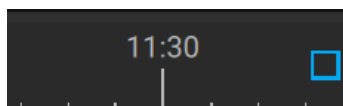
- Use the zoom in/zoom out icons to narrow or widen the time range.



- 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.



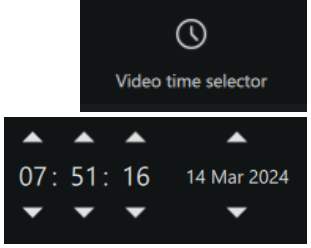
- **Timeline.** Use the timeline to navigate between relevant frames.

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

5.8.8.2 Change Start and End Times

The frame that was initially right-clicked from the Monitoring tab 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

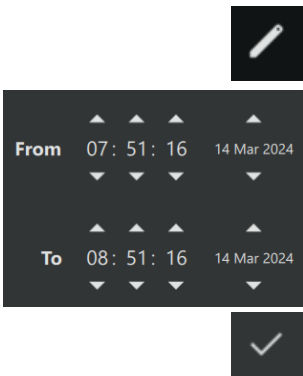


→ Left-click the video time selector icon. A new dialogue will open, showing start and end frames.

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

→ Click **Apply**.

Option 2: Select the Date and Time Bar



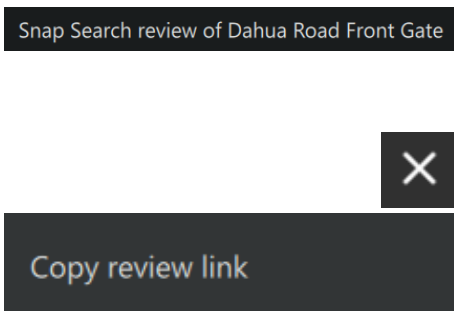
→ Click the **edit icon** next to the day and time bar at the top left of the of the window. A pop-up will open.

→ Click the **up and down arrows** in the **From** and **To** fields. This will determine *the first and last frame* in the sequence on the display.

→ Click the **tick icon** to save changes and exit the pop-up.

5.8.8.3 Controls Within the Frame Area

Controls are available within the frame area. These are:



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

→ Click the **X** to close the new window.

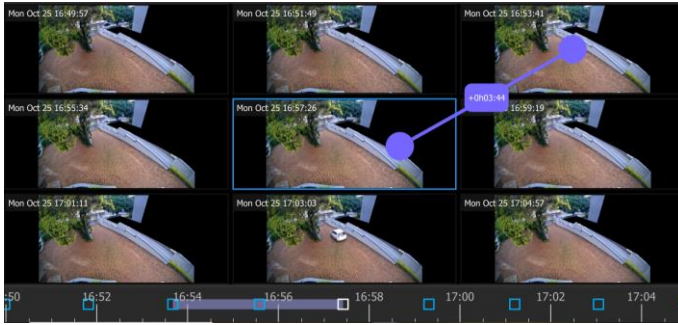
→ **Right-Click a Frame:** Right-click a frame for the option to copy the review link.

5.8.8.4 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.
 - + 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.

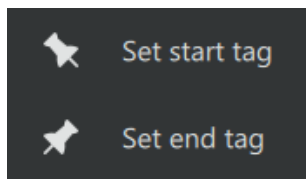
5.8.8.5 Snap Search Window Timeline

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

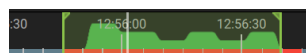
FEATURE	DESCRIPTION
	A grey strip on the timeline indicates the time frame of the selected area when searching between frames.
	The white square corresponds to the frame where the mouse is active. When the mouse hovers over the frame at 16:46, the square at 16:46 changes to white and the frame border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

5.8.8.6 Snap Search: Find an Event in a Tagged Time Period

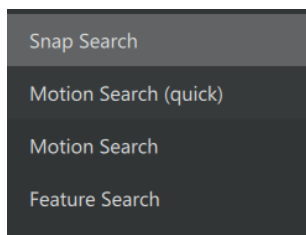
Snap Search can be applied to a time period, using tags on the footage in the main display.



From the main display, click the tag icon to **set tags**. This will demarcate the segment to send to the Snap search window. For more about tags, see [Using Tags](#).



The tags will display as vertical green lines.

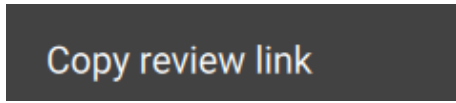


→ **Right-click** the display. Hover over **Smart search**, and then click **Snap Search**. **Snap Search** will open in a new tab.

The tags will define the beginning and end of the search period. The search results will be evenly distributed in terms of time.

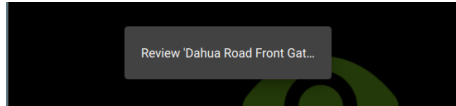
5.8.8.7 Importing a Review Time from Snap Search into Monitoring Tab

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.

5.8.9 Motion Search (Quick)

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

Note:

- Camera must be in *review mode* for Motion Search (quick) 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.

There are two ways to locate this tool.

OPTION 1: Options Menu



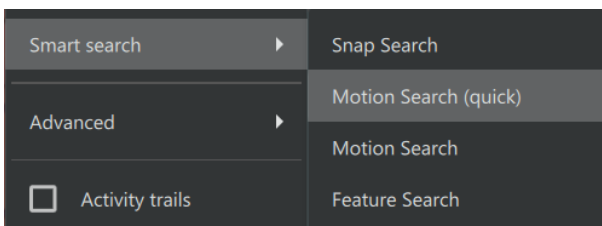
→ From the camera panel, select the inset options menu in the top-right corner. A drop-down menu will open.



→ Hover over **Smart search**.

→ Click **Motion Search (quick)**.

OPTION 2: Right-Click



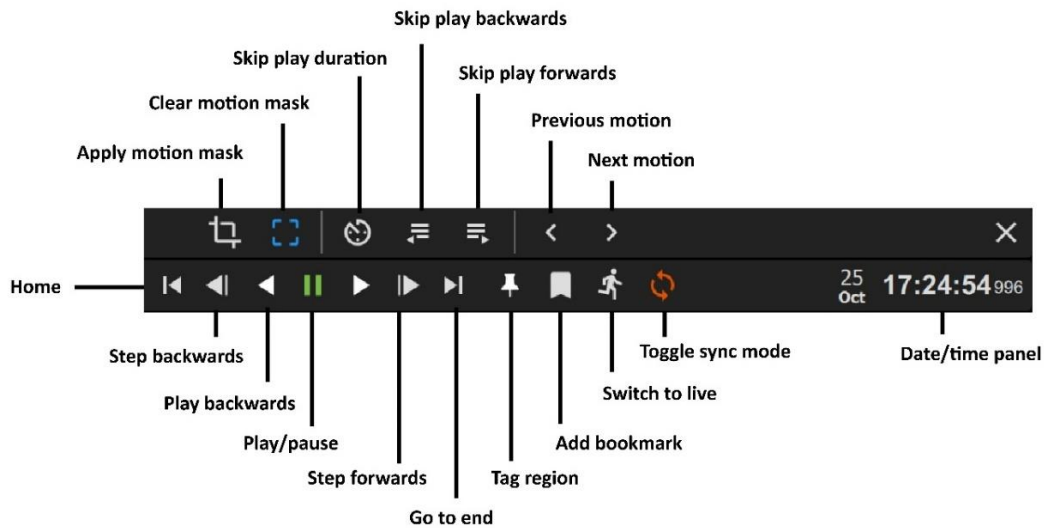
→ Right-click within the display panel.

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

→ Select **Motion Search (quick)**. The Motion quick search controls will appear and the feed will switch to review if the view was live.

5.8.9.1 Motion Search (Quick) Controls

In addition to standard review controls, the Motion Search (quick) 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 when this feature is not available.

5.8.9.2 Search in Motion Search (Quick)

The **Motion Search (Quick)** 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.

5.8.10 Motion Search

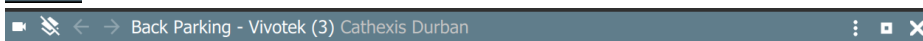
In *review mode*, the **Motion Search** function allows the selection of certain areas of the camera image to search for recent motion in one or more selected areas.

There are two ways to locate the Motion Search feature.

OPTION 1: Menu Icon

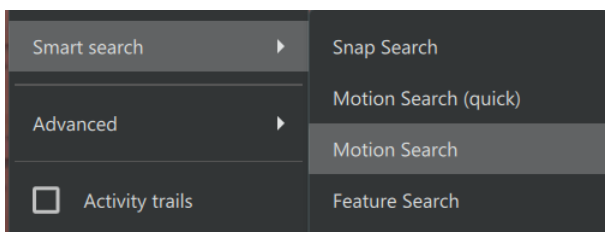


From the camera panel, select the inset menu icon in blue.



OPTION 2: Right-Click

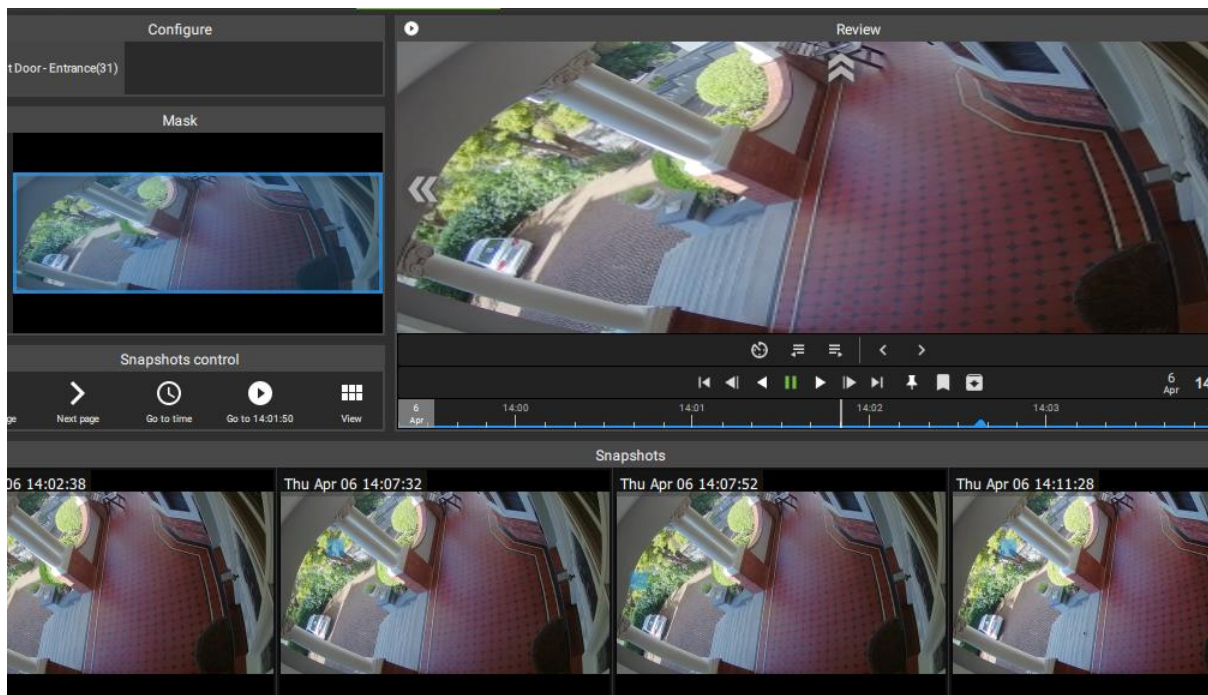
Alternatively, locate the Motion search feature by right-clicking within the display panel.






- From the drop-down menu, hover over **Smart search**.
- Select **Motion Search**. A new window will open, displaying the Motion Search tools.

5.8.10.1 Motion Search Window

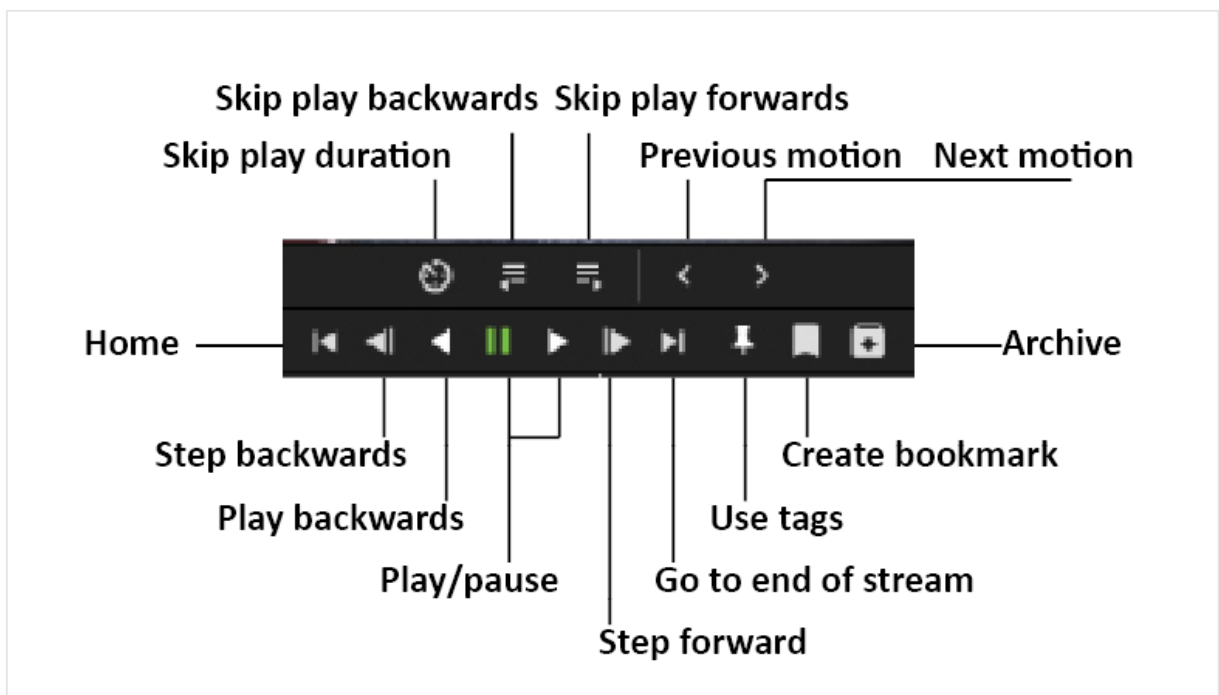
The Motion Search window displays tools in five separate panels: **Configure**, **Mask**, **Snapshots control**, **Snapshots**, and **Review**, as shown below. The table beneath the image describes the functions in each of these panels.



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.

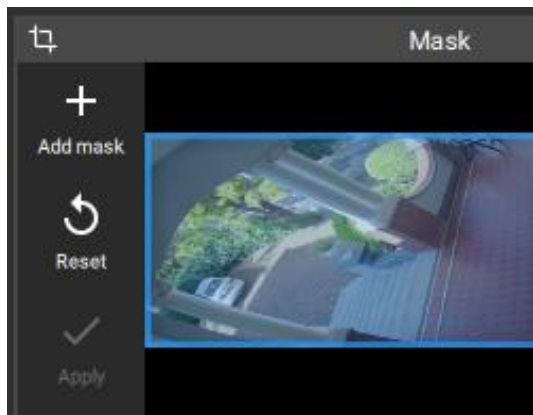
5.8.10.2 Motion Search Review Controls

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.

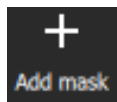


5.8.10.3 Search in Motion Search

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**.



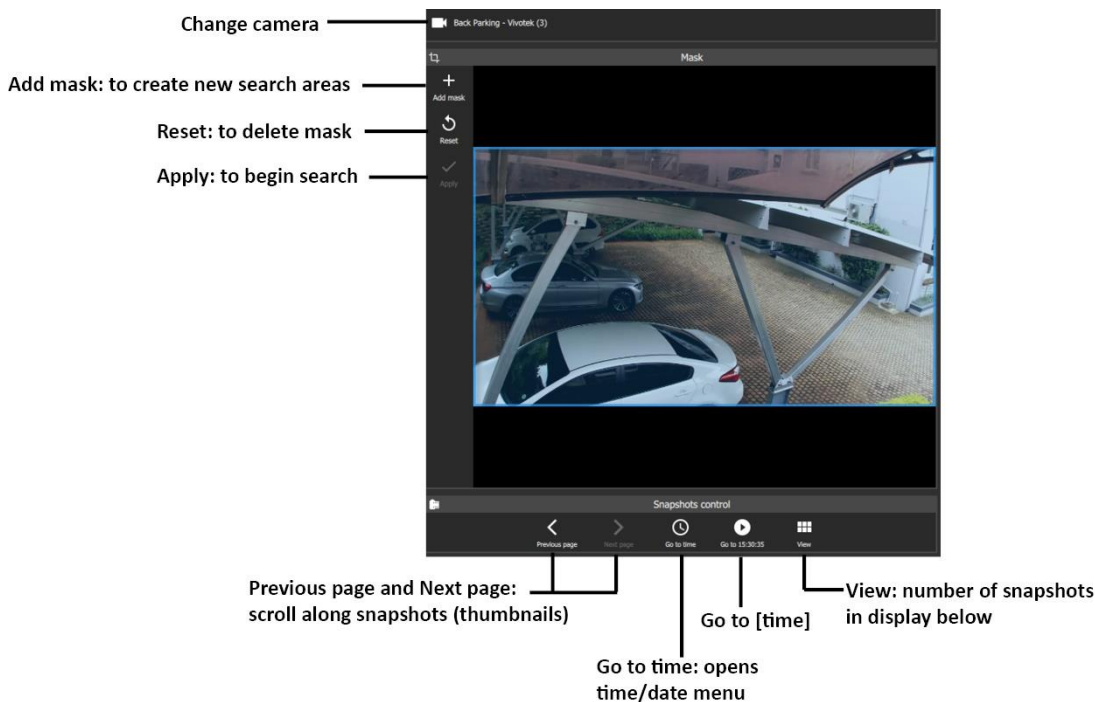
Additional masks can be created in the frame.

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.

Note:

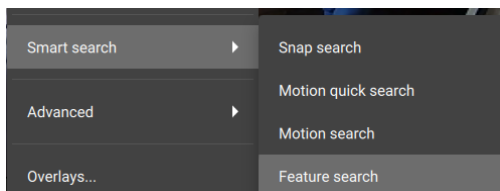
- Camera must be in review mode.
- Motion Search uses metadata from the Motion Search analytics database. To perform a motion search, cameras must have Motion Search analytics configured on the **CathexisVision client**.
- Configuration can be done from CathexisVision: **Setup Tab / Configure Servers / 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.

5.8.10.4 Summary of Mask Tools and Snapshots Control Tools



5.8.11 Feature Search

Feature Search is a tool with a 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. A menu will open.
- Click **Feature search**. The image will be used as the reference/search image in the Feature search tab.

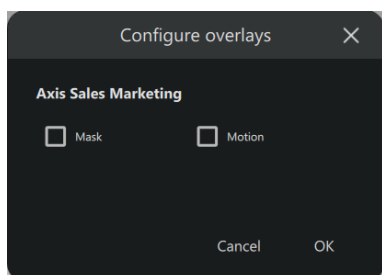
See [9. Feature Search](#) for information about how to use the Feature search tab.

5.8.12 Integration Overlays

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



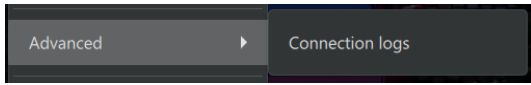
- To control overlays, right-click a display.
- Select **Overlays** from the drop-down menu. The **Configure overlays** dialogue will open.



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

5.8.13 Advanced: Connection Logs

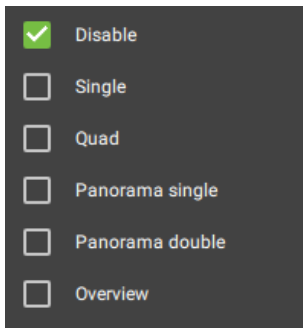
An advanced tool is available to view connection logs of footage in live mode.



- **Right-click** the display in live mode.
- **Hover** over Advanced and select **Connection logs**. The connection logs will open in a new window.
- ✕ → Click the **cancel icon** to exit.

5.8.14 Dewarping

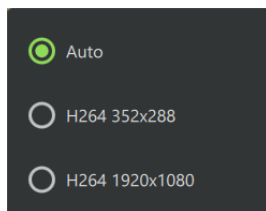
Use the dewarping tool to transform a fisheye camera into a flat view. For example, the **quad** option breaks the fisheye feed into four flat sections. Any of these four sections can be clicked and controlled.



- Right-click a display. A drop-down menu will open.
- Hover over **Dewarping**. Another menu will open.
- Check the boxes to adjust the dewarping settings on the camera. Choose from:
 - **Disable** (On a fisheye camera, disable will remove dewarping, and show the full fisheye view. Selecting disable on a regular camera will also send the camera view to the monitor without making changes to the feed.)
 - **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).

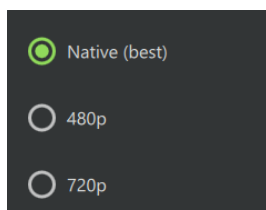
5.8.15 Video Settings

5.8.15.1 Change Video Stream Format in Live Mode



- **Right-click** to open the drop-down menu.
- Click **Video stream**. The video format default is set to Auto.
- Choose from available options to change the video format, and click to select.

5.8.15.2 Change Video Quality in Review Mode

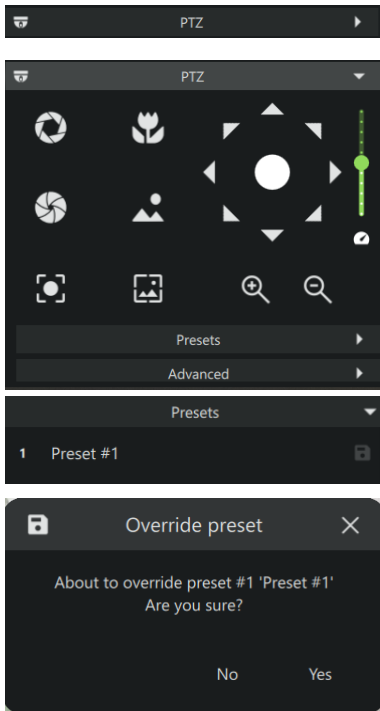


- **Right-click** to open the drop-down menu.
- Click **Video quality**. The video quality default is set to best.
- Choose an option to change the video quality, and click.

5.8.16 PTZ Menu

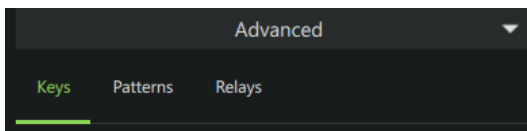
The PTZ menu enables the user to control PTZ movement in real-time as well as save PTZ presets for the camera. For information about how to use the PTZ overlay in the main display, see [PTZ Control](#).

When a display panel with a PTZ camera is selected, in *live mode*, a PTZ drawer will appear on the Resources panel on the left.



- Click the **PTZ drawer** to open it.
- Use the navigation and zoom functions to control the camera’s movement manually. 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.
- Click **Yes** to save the new preset.

PTZ Menu: Advanced



- Click the **Advanced drawer** to view Advanced options. These are **Keys**, **Patterns**, and **Relays**. Click each tab to configure those settings.

Keys 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**.

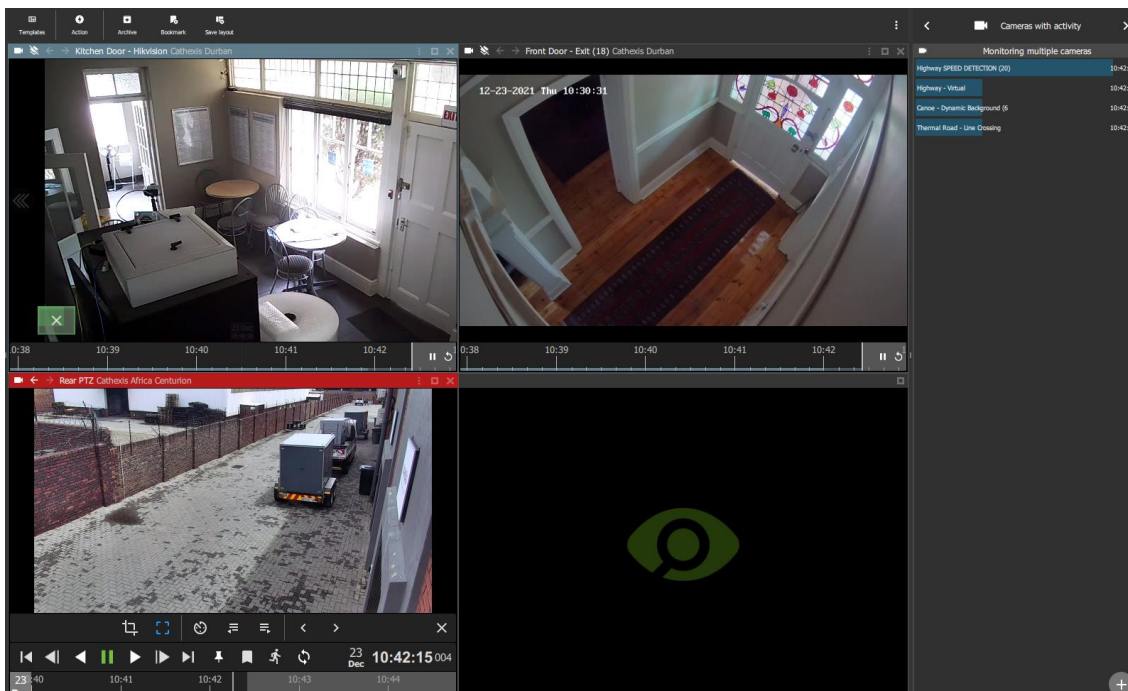
Note: Patterns and relays must first be configured before features can be used. These will need to be set up in CathexisVision.

5.8.17 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.

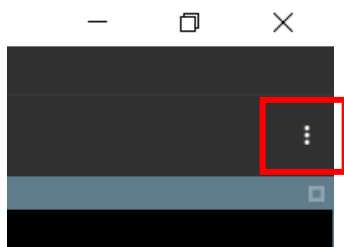
Section [5.8 Event Black Screen Monitoring](#) describes the setup for black screen monitoring, which only displays *video footage* of triggered cameras.

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.

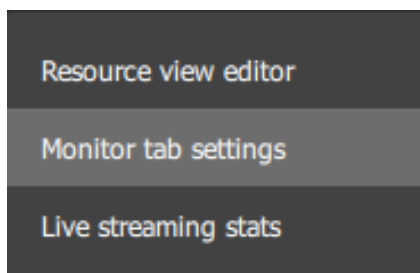


To use the side panel for monitoring, it is recommended first to enable the right side panel from the menu settings.

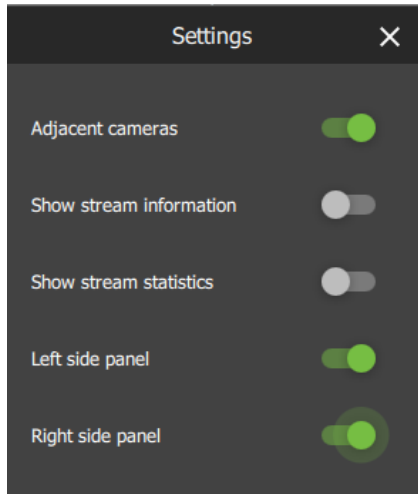
5.8.17.1 Enable Right Side Panel



→ Click the main **menu icon**.

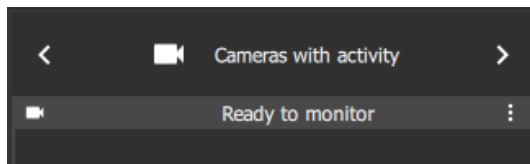


→ Select **Monitor tab settings**.



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

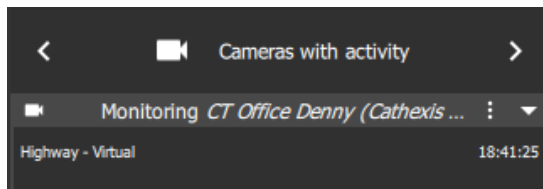
5.8.17.2 Monitoring Using Groups or Manually Adding Cameras



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



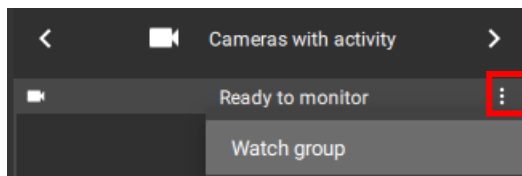
→ Select the **plus icon** in the bottom right corner to add additional monitoring panels.



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

→ 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**.

5.8.17.3 View a Monitored Camera

→ **Click a camera** in the list.

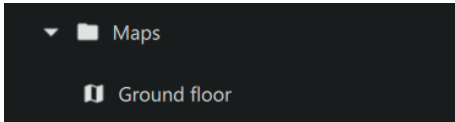
→ **Drag and drop** into a video display panel to see footage.

5.9 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.

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

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



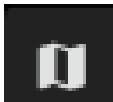
→ From the folder tree, select the **folder or group** where the map is saved. (**Note:** For a MultiSite or Enterprise connection, all available maps from all sites will be displayed in the folder tree.)

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

5.9.1 Monitoring Tab Map Tools



Show/hide camera viewing areas. 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.





Reset view



Navigate panel history

5.9.2 View the Map's Resources in Another Panel

The camera icons and map icons on maps represent resources that can be viewed in other display panels.

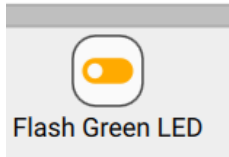
INDIVIDUAL CAMERAS		<ul style="list-style-type: none"> → Choose a template with at least one available display panel in order to see camera views. → Select the camera icon on a map. → Drag and drop the icon into another panel. The panel will change to display the camera's footage.
CAMERA GROUP		<ul style="list-style-type: none"> → Left-click the camera group icon on a map. → Drag and drop the icon into another panel. The template will change, and the saved camera group will fill the display panels. The display panels will show the footage and the map will no longer be displayed.

5.9.3 Inputs and Outputs

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

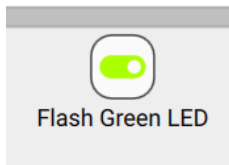
5.9.3.1 View Output State

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 (see [Edit Map Appearance](#)).



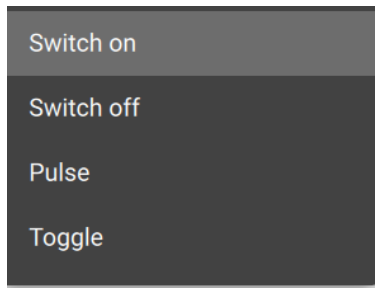
Colours can be used to represent the state:

- Unknown
- On
- Off.



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

5.9.3.2 Control Output



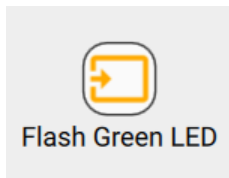
Right-click an output icon on the map for options to **control** the output.

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.)

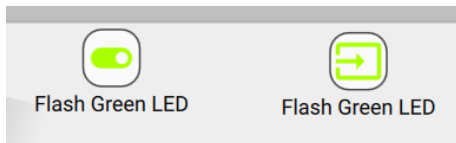
5.9.3.3 View Input State

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 (see [Edit Map Appearance](#)).



Colours can be used to represent the state:

- Unknown
- High
- Low.



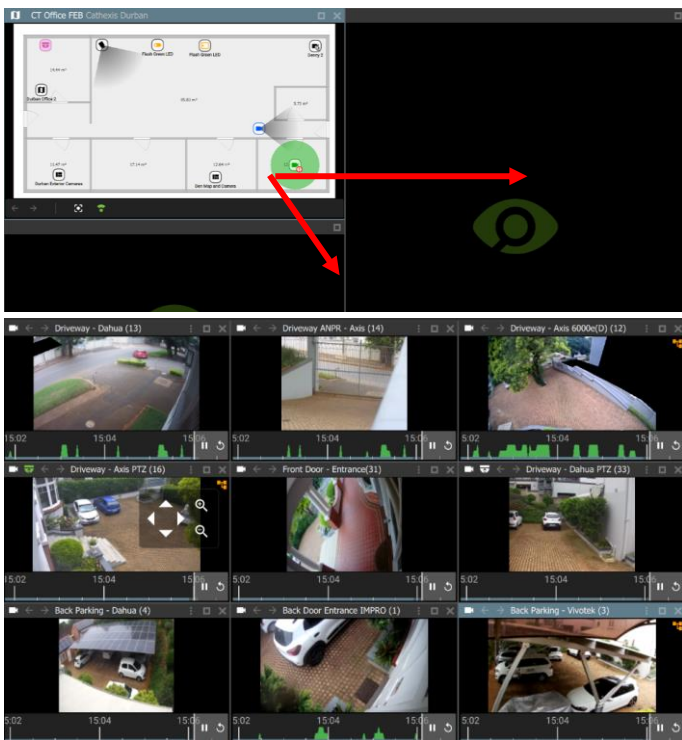
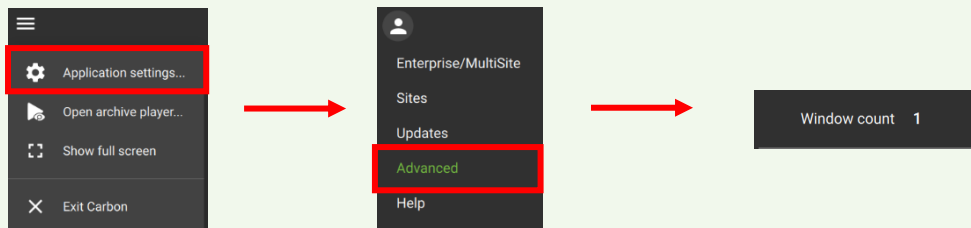
The *state* of the input will be indicated on the map by showing the *designated colour*. In the example on the left, the *output* icon (left) has been used to “switch on”, which results in a state change displaying on the *input* icon (right).

5.9.4 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.

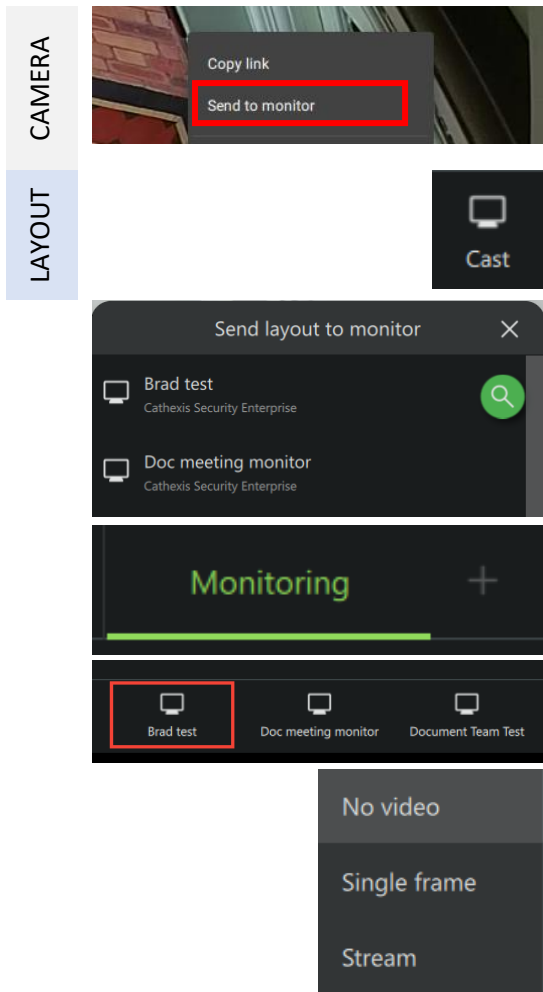
The display will change, and the saved layout will fill the display panels.

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.)

5.10 Cast a Camera or Layout to a Monitor

A camera or layout can be cast directly to a monitor from the Monitoring tab.

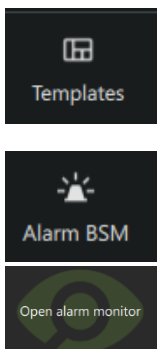


- Right-click the camera feed in the display panel.
- Click **Send to monitor**.
- Open a layout and click the **Cast icon** at the top of the Monitoring tab panel.
- Click a monitor to select it. Depending on the connection, the options shown here will vary.

Note: The camera or layout cast to the selected monitor will replace the monitor's current contents with a single, full window video feed.
- Open a new **Video Walls** tab by clicking the plus sign at the top of the screen and selecting **Video walls**.
- In the **Video walls tab**, select the name of the monitor at the top of the panel.
- Click the **mimic video mode** drop-down menu to display video options.

5.11 Alarm Black Screen Monitoring (BSM)

When Black screen monitoring (BSM) 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 that says "Open alarm monitor". The selected panel will be populated with alarm feeds as they come in.

After Alarm BSM has been added to a display panel, it is 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.

5.11.1 Icons and Tools



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



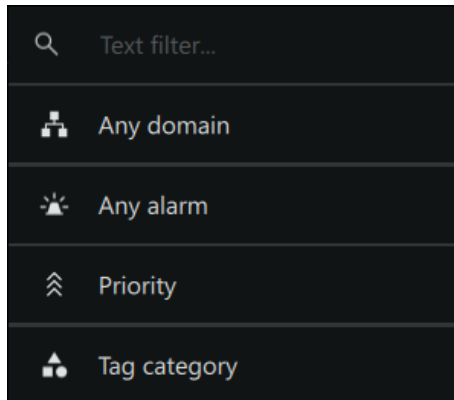
→ Click this icon to restore the black screen monitoring panel to its previous size.



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.

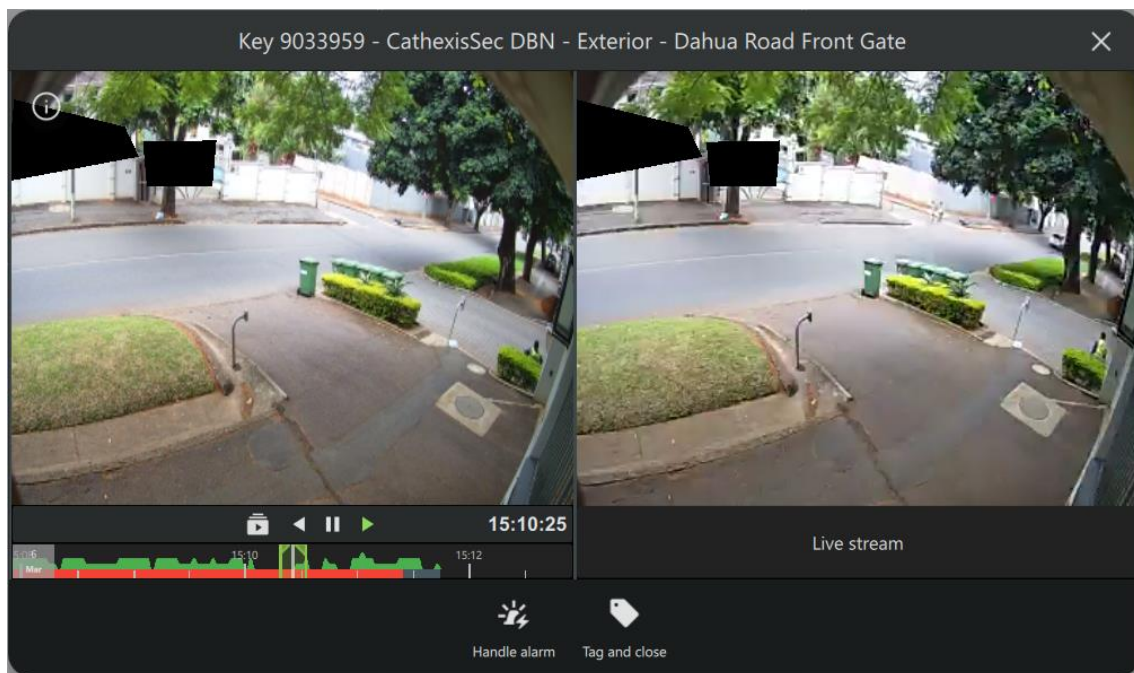
→ Click **Any domain** to filter by a specified domain.

→ Click **Any alarm** to filter by a specified alarm.

→ Select the priority.

5.11.2 Preview Alarm

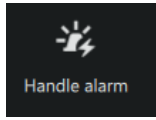
→ Double-click an alarm feed to open the **Preview Alarm** dialogue. Preview footage will display on the left, and the live stream from that camera will display on the right. The domain and alarm trigger are listed at the top.



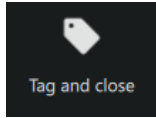


→ Click the information icon to view the alarm information.

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



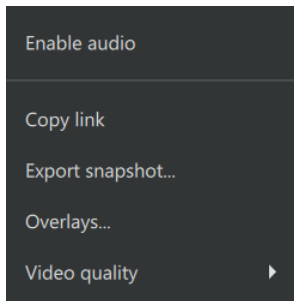
→ Click **Handle alarm** to open the [Alarm Viewer](#).



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

5.11.2.1 Alarm Preview Right-Click Options

→ Right-click the alarm feed in the **Preview Alarm** dialogue to view further options. Click an option to select it.



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

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

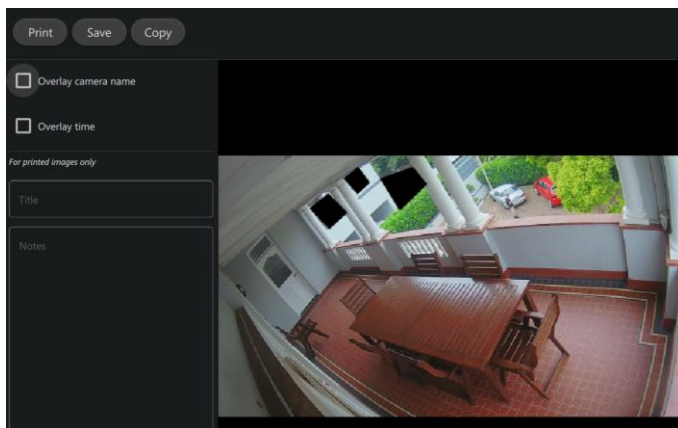
Export snapshot: Export a snapshot of the alarm.

Overlays: Configure overlays.

Dewarping: Select a dewarping option (if applicable).

Video quality: Select video quality.

Export snapshot



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

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

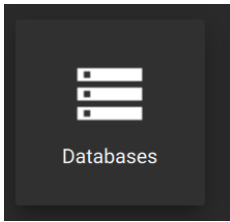
→ Select whether the snapshot will display the time in an overlay.

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

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

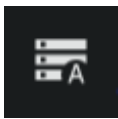
6. Databases Tab

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

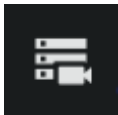


From the home menu, click the Databases icon to open a new Databases tab.
The **Open database** dialogue will open.

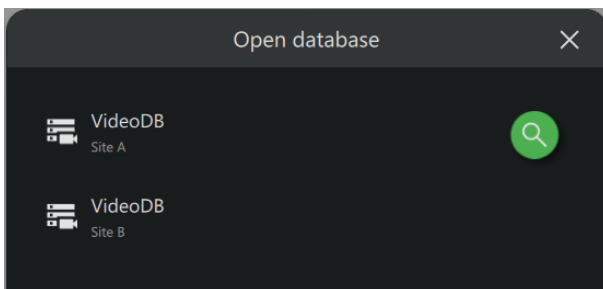
6.1 Select and View a Database



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.



→ Click a database to select and open it.



Click the **search icon** to open the search field.














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

The interfaces for the [metadatabase](#) and the [video database](#) differ, as explained in the sections below.

6.2 Metadatabase Interface

Note: Some integration databases have multiple View options, which can be adjusted.



<p>1. Open Database</p>	<p>Click the name of the database to open the Open database dialogue.</p>								
<p>2. Custom View</p>	<p>Click this icon to see custom views. Users may change the way the database is presented, by adjusting the Sort by (3) options.</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <p>Saving the sorted list creates a custom view.</p> </div>								
<p>3. Sort by</p>	<p>Events can be sorted by certain parameters. These are specific to each database.</p>								
<p>4. Play mode</p>	<p>The way event footage is reviewed in the display on the right can be changed.</p> <div style="margin-top: 10px;"> <p>Normal After the event plays, the video stream will continue playing forward until paused.</p> <p>Skip After an event plays, the next item in the database list will begin playback.</p> <p>Loop An event will play until the end of the segment, then begin again on repeat.</p> </div>								
<p>5. 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>6. Controls</p>	<p>Controls relate to the pages created by using the Max Rows tools. Use a control tool to jump to other pages.</p> <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <td style="text-align: center;"></td> <td>Click the First icon to jump to the first page of results.</td> </tr> <tr> <td style="text-align: center;"></td> <td>Click the Previous icon to jump to the previous page of results.</td> </tr> <tr> <td style="text-align: center;"></td> <td>Click the Next icon to navigate forward in time to more recent pages.</td> </tr> <tr> <td style="text-align: center;"></td> <td>Click the Last page icon to show the most recent entries (i.e. jump back back to these results).</td> </tr> </table>		Click the First icon to jump to the first page of results.		Click the Previous icon to jump to the previous page of results.		Click the Next icon to navigate forward in time to more recent pages.		Click the Last page icon to show the most recent entries (i.e. jump back back to these results).
	Click the First icon to jump to the first page of results.								
	Click the Previous icon to jump to the previous page of results.								
	Click the Next icon to navigate forward in time to more recent pages.								
	Click the Last page icon to show the most recent entries (i.e. jump back back to these results).								
<p>7. Go to</p>	<p>Enter and search for an event using the time and date panel. The time and date panel will open in a new dialogue from the Go to icon.</p>								
<p>8. Refresh</p>	<p>Click the Refresh icon to reload the page.</p>								
<p>9. Filter</p>	<p>Click the Filter icon tool to search <i>all</i> data in the integration database. Multiple filters can be added from this window. The filter options will change for each database. See below, Configure Filters, for instructions on adding search filters.</p>								
<p>10. Filter this page</p>	<p>Use the Filter this page tool to narrow down results from <i>only</i> those currently displayed on the page. Filter by any term or part of items that appear in the main page. Only the results from the current page will display.</p>								

6.2.1 Configure Filters

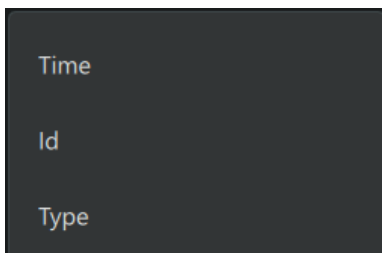
Use the filter tool to search and filter *all* entries, including those currently not displayed on the page.



Click the **filter icon**. The **Configure filters** dialogue will open.

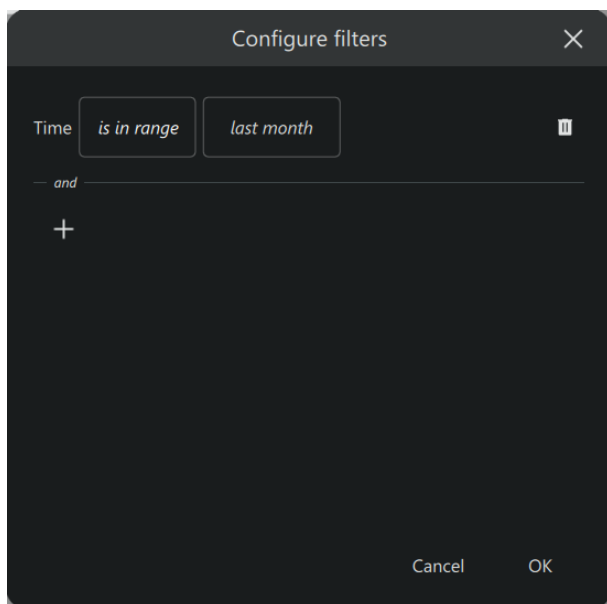


Click the **plus icon**. A drop-down menu will open.



→ Click a filter to select it. (**Note:** The filter options will vary according to the database.)

Additional fields will appear which allow the user to configure the filter. Depending on which filter is chosen, the filter will be further specified by typing in a field, choosing an option from a drop-down, or following prompts in a new dialogue.



→ Click the fields to specify the parameters of the filter. In the example alongside, the Time filter is shown.

→ Click the **plus icon** to add more filters. A drop-down menu will open.

→ Click the **delete icon** to delete a filter.

→ Click **OK** to finish.

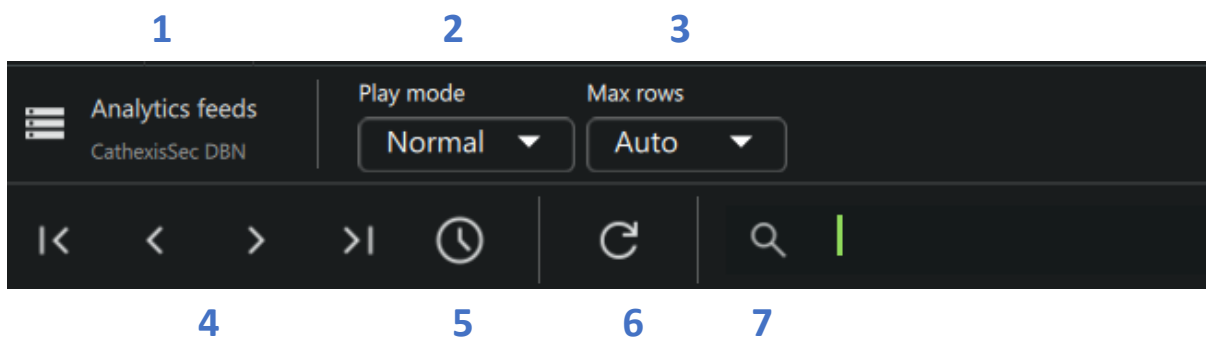
6.2.1.3 Explanation of Filter Search Terms

Filter search terms will vary according to the filter and the database.

Term	Explanation
is equal to	This will search for the entire/exact item specified in the field alongside.
is not equal to	This will exclude the whole term.
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 a filter.
is not one of	This 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 a filter.
contains	This will conduct a search using part of the word or phrase. The search returns results using any part of the term that is entered in the field.

does not contain	This will conduct a search using part of the word or phrase. The search returns results excluding any part of the term that is entered in the field.
is greater than	This will yield results that are greater than the value specified.
is greater than or equal to	This will yield results that are greater than, or equal to, the value specified.
is less than	This will yield results that are lower than the value specified.
is less than or equal to	This will yield results that are less than, or equal to, the value specified.
is in range	This will allow the user to specify a range to apply to the search.

6.3 Video Database Interface

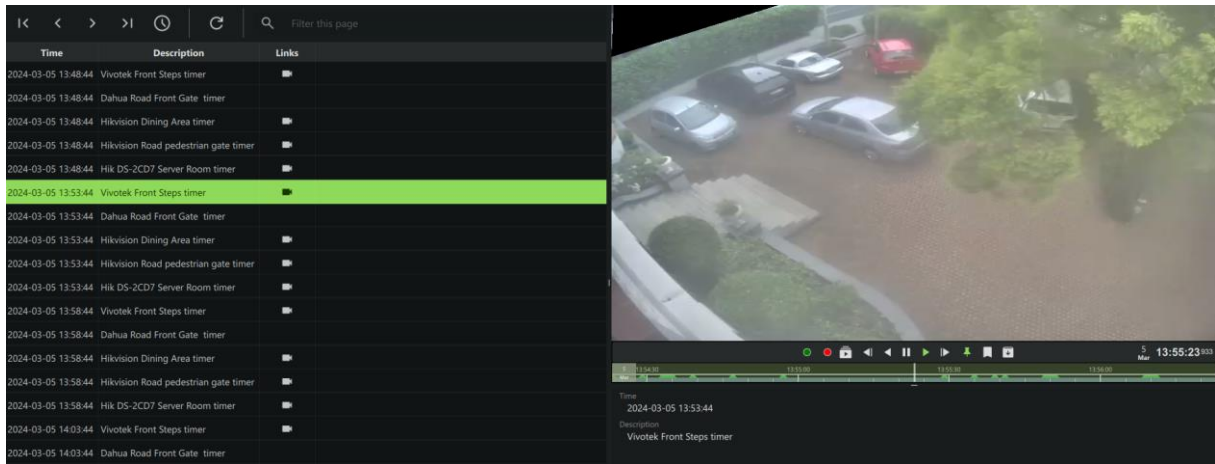


1. Open Database	Click the name of the database to open the Open database dialogue.
2. Play mode	<p>The way event footage is reviewed in the display on the right can be changed.</p> <ul style="list-style-type: none"> Normal After the event plays, the video stream will continue playing forward until paused. 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.
3. Max rows	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.
4. Controls	<p>Controls relate to the pages created by using the Max Rows tool. Use a control tool to jump to other pages.</p> <ul style="list-style-type: none"> Click the First icon to jump to the first page of results. Click the Previous icon to jump to the previous page of results. Click the Next icon to navigate forward in time to more recent pages. Click the Last page icon to show the most recent entries (i.e. jump back to these results).

<p>5. Go to</p>	<p>Enter and search for an event using the time and date panel. The time and date panel will open in a new dialogue from the Go to icon. Click the field in the pop-up. This will provide a calendar view. Choose the date and time and select Done.</p>
<p>6. Refresh</p>	<p>Click the Refresh icon to reload the page.</p>
<p>7. Filter this page</p>	<p>Use the Filter this page tool to narrow down results from <i>only</i> those currently displayed on the page. Filter by any term or part of items that appear in the main page. Only the results from the current page will display.</p>

6.3.1 View Video Footage Associated with an Event






Click an item in the list on the left to play video footage associated with the event in the panel on the right.









A motion graph is shown below the review controls. The white vertical line indicates the current frame.

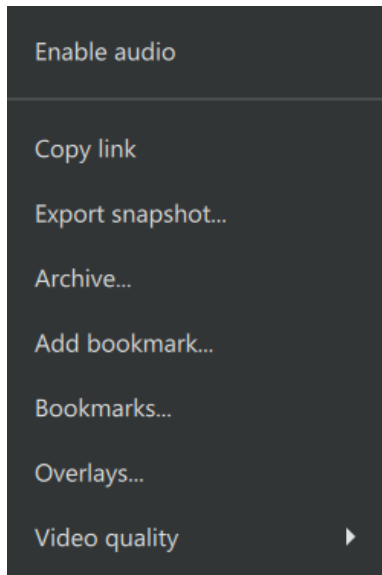
6.3.1.1 Database Review Controls



-  Start of transaction
-  End of transaction
-  Select track
-  Step backwards
-  Play backwards

-  Pause
-  Play forwards
-  Step forwards
-  Set tags
-  Add bookmark
-  Archive

6.3.1.2 Database Review Panel Right-Click Options



- Right-click the display panel. A drop-down menu will appear.
- Click an item to select it.

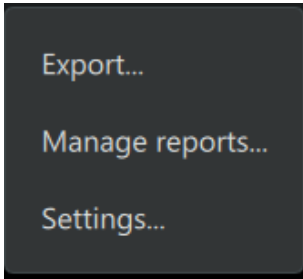
Term	Description
Enable audio	Listen to the audio track where one is available.
Copy link	Create a link and select it. The link can be pasted into another display panel.
Export snapshot...	Open a window to print snapshot, save to folder, copy to system clipboard, or copy to clipboard. The user may choose 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

In both the video database and metadatabase views, the menu icon in the top-right corner opens further options.



→ Click the menu icon. Further options will open.



→ Click one of the options to select it.

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.

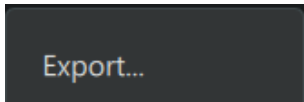
The subsections below explain how to use the menu functions.

6.4.1 Export

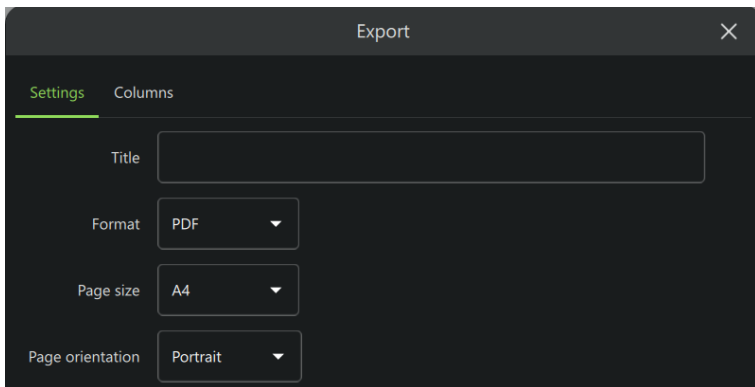
To export search results and save, first, **filter search results** using the tools in the top panel.



→ Click the menu icon.



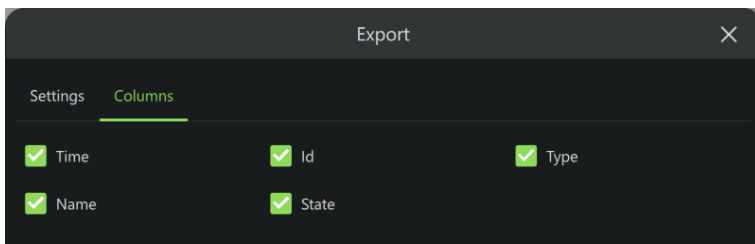
→ Click **Export**.



→ 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.




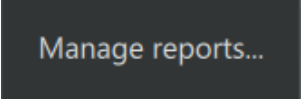

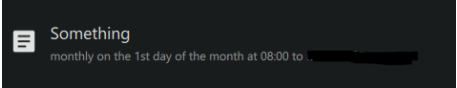
→ In the **Columns** tab, choose which columns will show in the document.

→ Uncheck boxes to deselect columns.

The options that appear in this tab will vary according to the integration or database.

→ Click **Save as** to export the file.

6.4.2 Manage Reports (Metadatabase Only)

	→ Click the menu icon.
	→ Click Manage reports . The Manage reports dialogue will open.
	→ Click the plus icon to create a new report. The New report dialogue will open.
	→ Or, click an existing report to edit it.

6.4.2.1 New Report

TEMPLATE	<div style="text-align: right; font-weight: bold; margin-bottom: 5px;">Template</div> <div style="display: flex; align-items: center; gap: 10px;"> ● Blank report </div>	<p>→ Choose a saved template, or Blank report to create a new report.</p> <p>→ Click Next.</p>
SETTINGS	<div style="text-align: right; font-weight: bold; margin-bottom: 5px;">Settings</div> <div style="margin-bottom: 5px;">Name <input style="width: 150px;" type="text"/></div> <div style="margin-bottom: 5px;">View Events ▼</div> <div style="margin-bottom: 5px;">Sorted by Time ▼</div> <div style="margin-bottom: 5px;">Title <input style="width: 150px;" type="text"/></div> <div style="margin-bottom: 5px;">Format PDF ▼</div> <div style="margin-bottom: 5px;">Orientation Portrait ▼</div>	<p>→ Enter a descriptive name in the text field.</p> <p>→ Click the drop-down menu to choose a view. Note: Options vary depending on the metadatabase.</p> <p>→ Click the drop-down menu to choose a sorting option. Note: These vary depending on the metadatabase.</p> <p>→ Enter a title in the text field.</p> <p>→ Click the drop-down menu to choose between PDF and CSV format.</p> <p>→ Click the drop-down menu to choose between Portrait and Landscape page orientation.</p> <p>→ Click Next.</p>
FILTER	<div style="text-align: right; font-weight: bold; margin-bottom: 5px;">Filter</div> <div style="margin-bottom: 5px;">Time is in range last month</div> <div style="margin-bottom: 5px;">— and —</div> <div style="margin-bottom: 5px;">+</div>	<p>When sending a report, a recommended filter is suggested at the top of the new dialogue. Note: The options depend on the integration.</p> <p>→ Configure the filters as explained in Configure Filters.</p>

EMAIL	<div style="text-align: right; font-weight: bold; margin-bottom: 10px;">Email</div> <input type="checkbox"/> Email report	<p>→ Check the box to select Email report.</p>
	<div style="margin-bottom: 5px;"> <input checked="" type="checkbox"/> Email report </div> <div style="margin-bottom: 5px;"> Send Monthly <input checked="" type="radio"/> 1st day of the month at 8 hr 0 min </div> <div style="margin-bottom: 5px;"> <input type="radio"/> 1st Sunday of the month at 8 hr 0 min </div> <div style="margin-bottom: 5px;"> Email subject <input style="width: 100%;" type="text"/> </div> <div style="margin-bottom: 5px;"> Email recipients <input style="width: 100%;" type="text"/> + </div>	<div style="background-color: #e0f0e0; padding: 10px; margin-bottom: 10px;"> <p> Note: Email will only function if the SMTP configuration has been done in CathexisVision. Consult the CathexisVision Setup Manual for more information.</p> </div> <p>→ Click the field to choose the frequency of reports.</p> <p>→ Choose between date or day of the month</p> <p>→ Use the arrows to set the day/date and time to send reports</p> <p>→ Enter the email subject in the field.</p> <p>→ Click the plus icon to add email recipients.</p> <p>→ Click OK to complete the setup.</p>

6..4.2.2 Edit Report

Click an item in the **Manage report** dialogue to edit a report. Here, the information captured in the setup process (above) can be found under the three tabs: Settings, Filter, and Email.

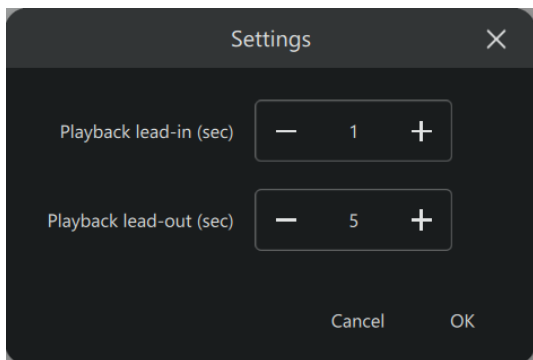
Settings Filter Email	→ Click a tab to select it.
---------------------------------------------------------------------------------	-----------------------------

SETTINGS	<div style="margin-bottom: 5px;"> Settings Filter Email </div> <div style="margin-bottom: 5px;"> Name <input style="width: 100%;" type="text" value="Test"/> </div> <div style="margin-bottom: 5px;"> View Events ▼ </div> <div style="margin-bottom: 5px;"> Sorted by Time ▼ </div> <div style="margin-bottom: 5px;"> Title <input style="width: 100%;" type="text" value="test"/> </div> <div style="margin-bottom: 5px;"> Format PDF ▼ </div> <div style="margin-bottom: 5px;"> Orientation Portrait ▼ </div>	<p>→ Click any of the fields and edit them as required.</p> <p>→ Click OK to save changes.</p>
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FILTER		<p>→ Click any of the fields and edit them as required.</p> <p>→ Click OK to save changes.</p>
EMAIL		<p>→ Click any of the fields and edit them as required.</p> <p>→ Click OK to save changes.</p>

6.4.3 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.

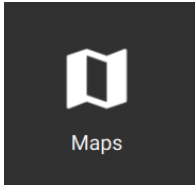


Click the **plus and minus icons** to add or remove time (in seconds) to the beginning and end of the video footage.

→ Click **OK**.

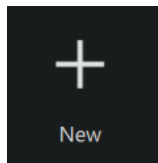
7. Maps Tab

Maps allow the operator to create maps or view resources in map format.

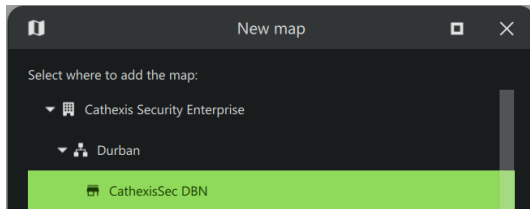


From the home menu, click the Maps icon to open a new Maps tab.

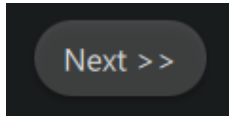
7.1 Create New Map



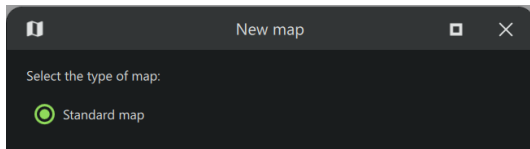
→ Click **New**. The **New map** dialogue will open.



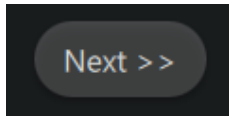
→ Click the site or domain to which the map will be added.



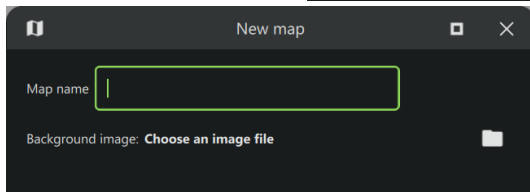
→ Click **Next**.



→ Select **Standard map**.



→ Click **Next**.



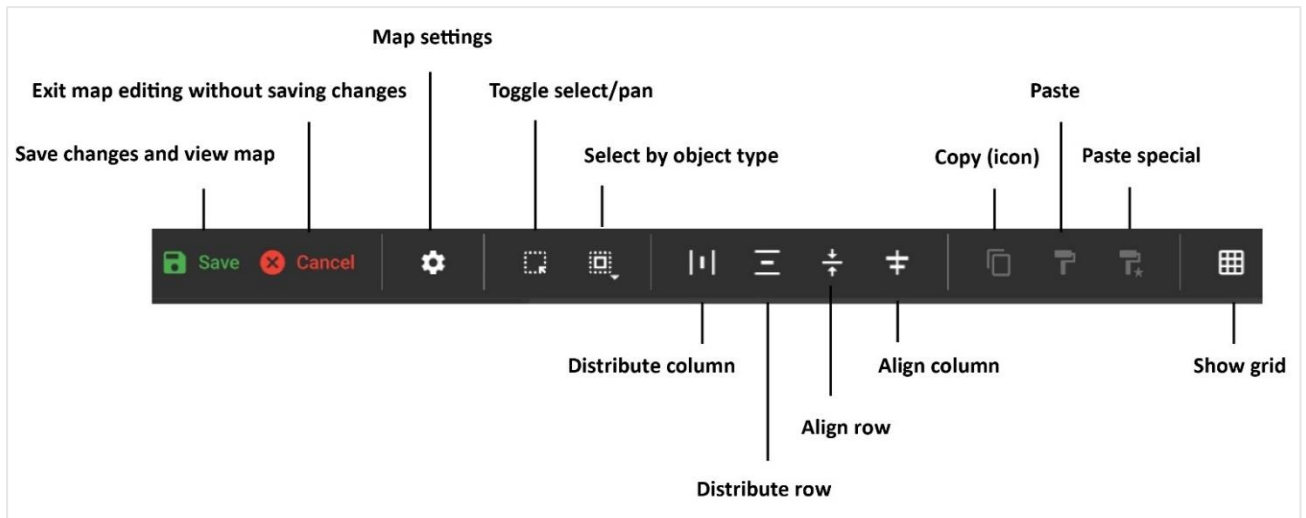
→ Enter a **Map name**.

→ 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 [Edit Map Appearance](#) for instructions about using the side panel tools to customise individual icons.



Settings

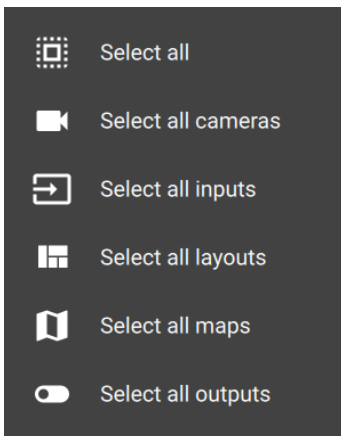


Click the **gear icon** to change map name or select a new background image.

Select All by Type



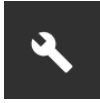
Click this **select all** icon to open a drop-down menu.



The menu will adjust depending on map objects.

Click an option to select *all icons* of a particular type.

7.1.2 Add Resources to Map



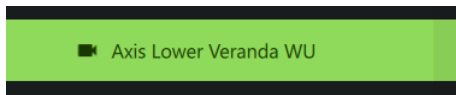
Once the map has been opened, click the **spanner icon** in the top left to open up editing settings (the map editor).



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.

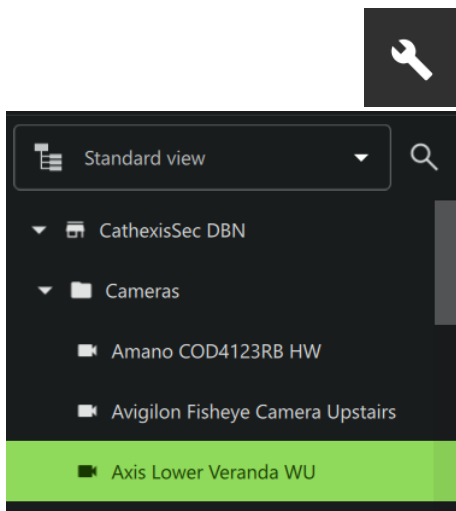
7.1.2.1 View Cameras



- Open the relevant folder from the list on left-hand side, e.g. Cameras.
- Click a camera in the list.
- Drag and drop the camera to the 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.

Note: Camera *groups* cannot be previewed in the Maps tap but can be used in the Monitoring tab.

7.1.2.2 Add Resources to Map



- Click the **spanner icon** in the top left to open the map editor.
- Open the appropriate folder in the folder tree in the left panel.
- Click a resource in the list. Multiple items may be selected.
- Drag and drop the resource/s from the list onto the background image. The resource will appear as an icon on the map.

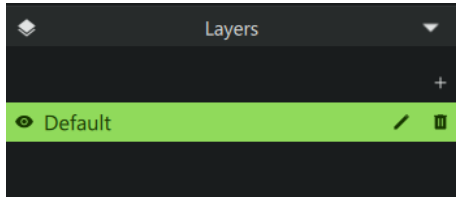
7.1.3 Edit Map Appearance



→ Click the spanner icon in the top-left corner to open the map editor.

→ Double-click a camera icon on the map to open editing tools for icons. Drawers will appear in the right panel.

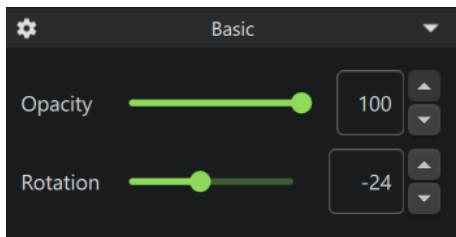
7.1.3.1 Layers



Click the **Layers** drawer to open it.

- 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** drawer to open it.

- 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.

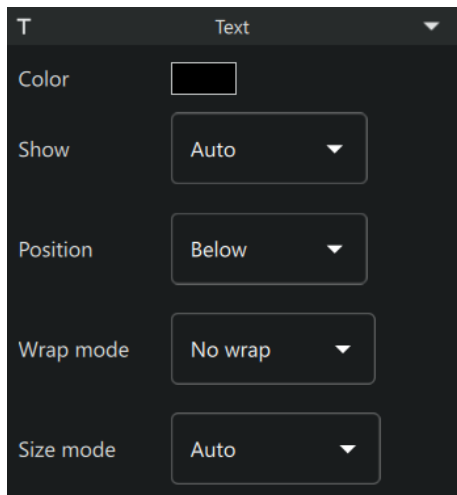
7.1.3.3 Icons



→ Click the **Icon** drawer to open it.

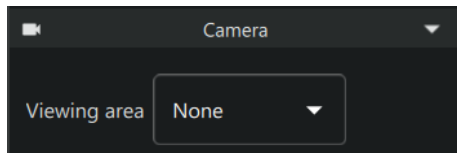
- Select the blocks of colour alongside Foreground and Background to choose new colours for the icons, and surrounding squares.
- Adjust the size of the icon by selecting options from the drop-down menu, or manually adjusting the width and height using the arrows.
- Check **Show background** to add a rounded square background around the icon.
- Adjust the transparency of the square using the Opacity slider.

7.1.3.4 Text



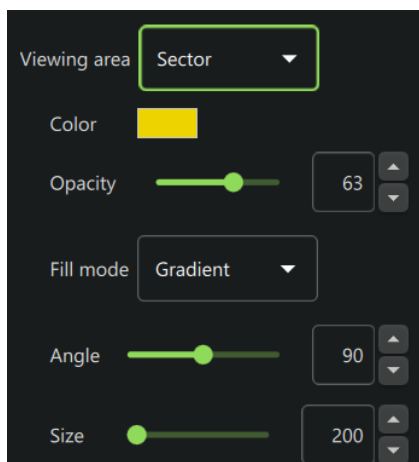
- Click the **Text** drawer to open it.
- Click the **colour block** to change **text colour**.
- To edit Display settings, Position, Wrap mode, and Size mode, select from the drop-down menus.

7.1.3.5 Camera (Viewing Area)



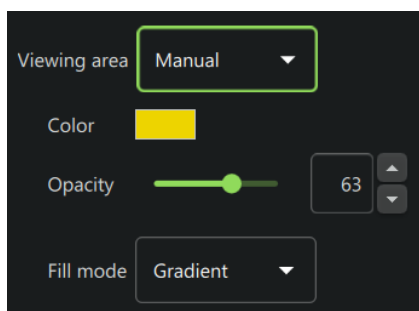
- Click the **Camera** drawer to open it.
- Click the **Viewing area** drop-down to open further options. This enables a visual representation of the area covered by the camera's vision.
- Select from **None, Sector, Manual, or Fisheye**.

Sector



- Select **Sector** from the drop-down list to depict the camera viewing area.
- The **opacity, fill mode, angle, and size** of the field can be adjusted.

Manual



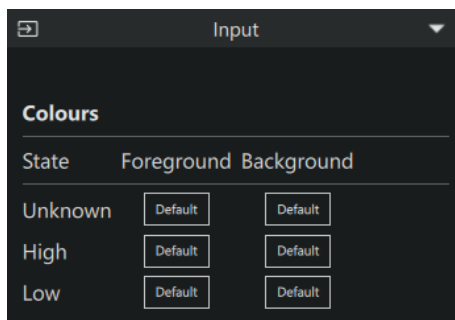
- Select **Manual** from the drop-down list to adjust the viewing area on the map.
- This allows the user to create irregular shapes for the camera view.
- Click a **plus sign** on the map to add a new point. Click and drag a circle to move the point.

Fisheye



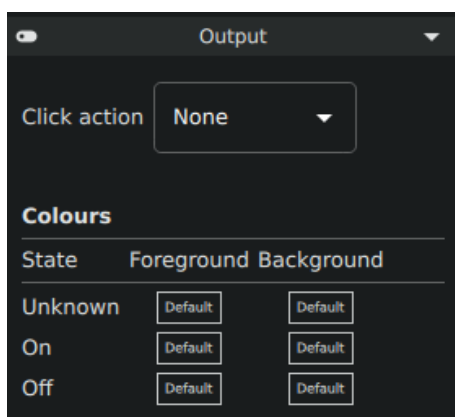
- Select **Fisheye** from the drop-down list to depict the camera viewing area as shown alongside.
- The **colour, opacity, fill mode, angle, width, and height** of the field can be adjusted.

7.1.3.5 Input



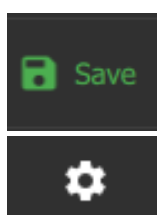
- Click the **Input** drawer to open it.
- The default foreground and background colour is black.
- Click the colour box to change the colour of the icon to indicate **State**. Use colours to represent:
 - State: **Unknown**
 - State: **High**
 - State: **Low**

7.1.3.6 Outputs



- Click the **Output** drawer to open it.
- 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**

7.1.3.7 Save or Rename Map



- To save a new map, and to save any changes, click the **save icon** in the top-left of the map editor.
- To change a map's name, click the **settings icon** in the top left of the map editor, edit the name and click **OK**.

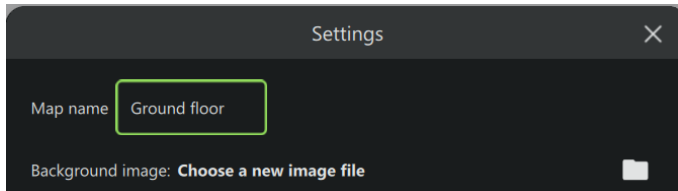
7.1.3.8 Choose a New Background Image



→ Click the **spanner icon** to open the map editor.



→ Click the **settings icon** in the top left of the map editor.

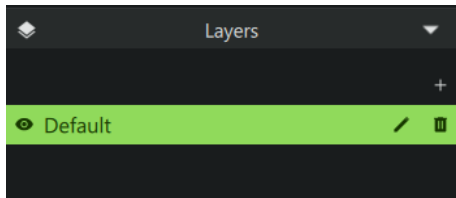


→ Click the folder icon.

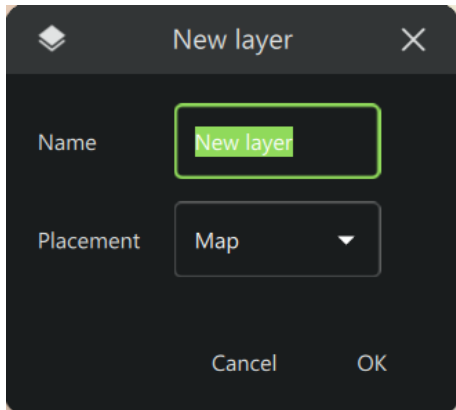
→ Upload a new image.

→ Click **OK**.

7.1.3.9 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 of the map editor.



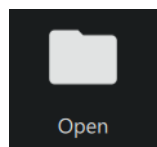
→ Enter a **Name** for the new layer.

→ Select the **Placement** for the new layer.

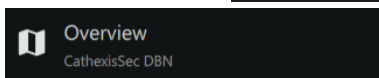
→ Click **OK**.

7.2 Using Maps

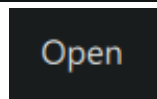
7.2.1 Open Map



→ Click **Open** from the Maps tab home page. The **Open map** dialogue will open.

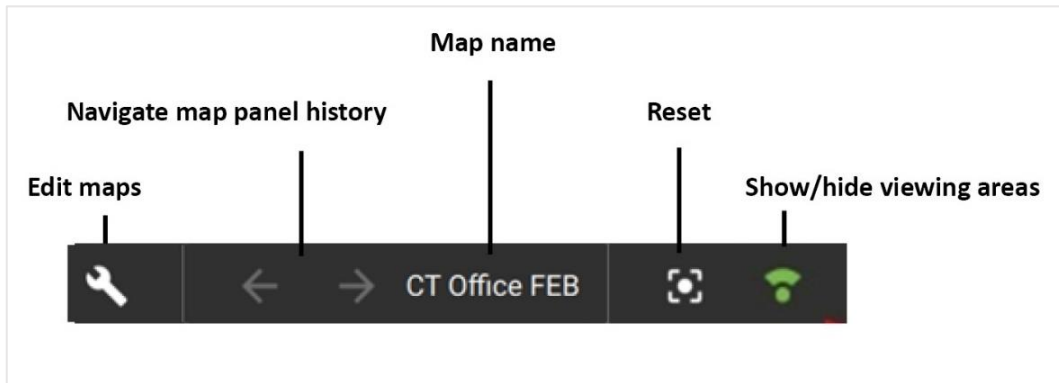


→ Click the file name.

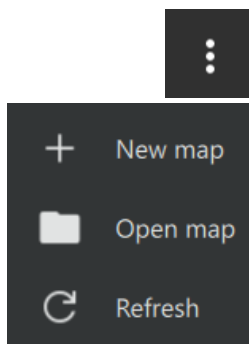


→ Click **Open**.

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

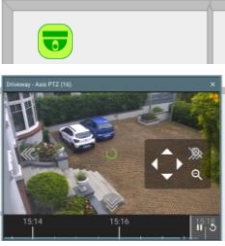
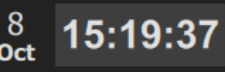
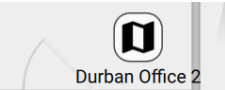
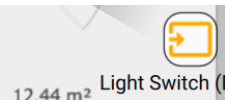
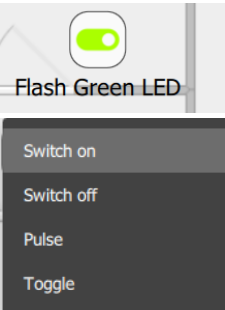
7.2.3.1 Map Icons for Viewing Purposes

Some 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.

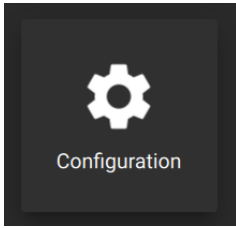
ICON	DESCRIPTION
	VMS event
	VMS sub-event
	Line crossing sensor
	Metadatabase
	Motion sensor
	Presence sensor
	Speed sensor
	Stop in area sensor
	Video databases

7.2.3.2 Map Icon Actions

ICON	DESCRIPTION	ACTION
	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.

Type of icon	Instructions	
<p>Camera</p> <p>See Camera Tools Menu for information on the features in the right-click (context) menu.</p>	 	<ul style="list-style-type: none"> → Double-click the camera icon. 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.
Map		<ul style="list-style-type: none"> → Double-click map icons to view additional maps/levels. Additional maps/levels will be displayed in the panel.
Input		<ul style="list-style-type: none"> → Use the map editing tools to set up icon colour changes. View colour changes from the map which represent: <ul style="list-style-type: none"> State – Unknown State – High State – Low
Output		<ul style="list-style-type: none"> → 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

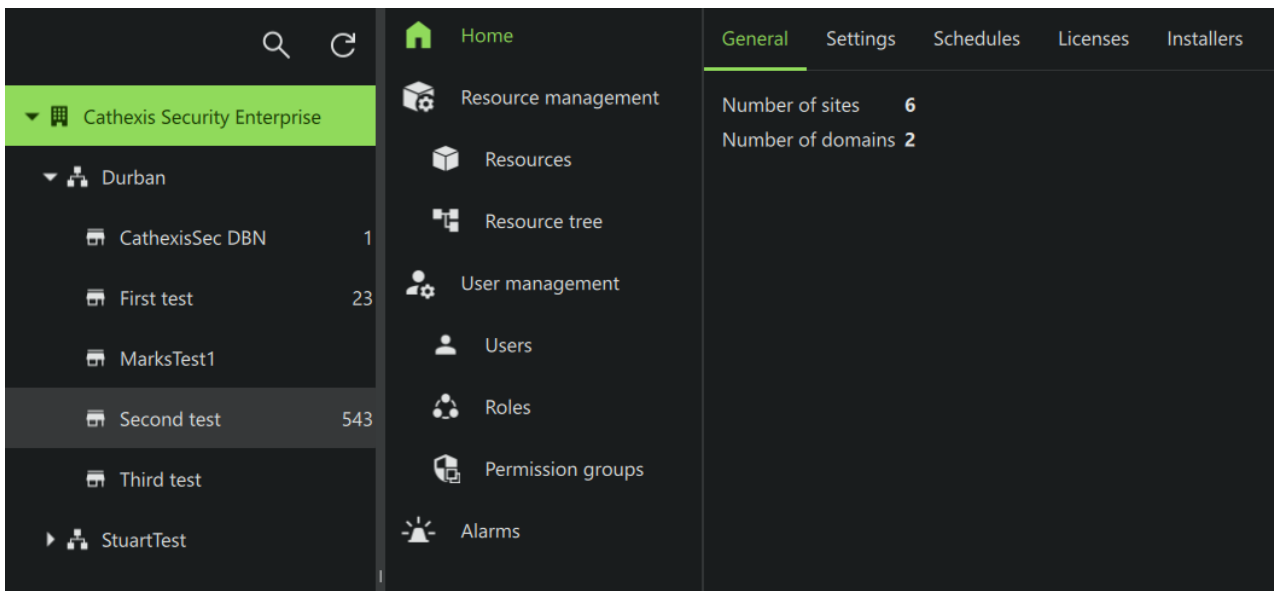


From the home menu, click the Configuration icon to open a new Configuration tab.

The Configuration tab allows users to edit connection settings, organise resources, and to view and edit user roles (access levels) and permissions.

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

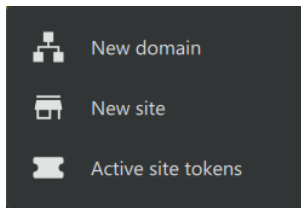
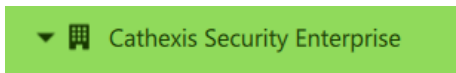
2) Menu panel

3) Configuration panel

1	In the domain panel , select the MultiSite or Enterprise installation, a domain, sub-domain, or site to be configured. Note: The domain panel will only be displayed when viewing MultiSite or Enterprise installations.
2	The menu panel comprises the Home Menu, Resource Management, User Management, and Alarms. After choosing an installation, domain or site in the domain panel (1), select the area to be configured (2).
3	In the configuration panel on the right, the operator can configure settings for the options selected in the domain panel and menu panel.

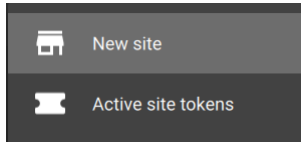
8.1.1 Domain Panel Right-Click Options (MultiSite and Enterprise)

→ Right-click the Enterprise, domain or site name in the Domain panel to reveal further options.



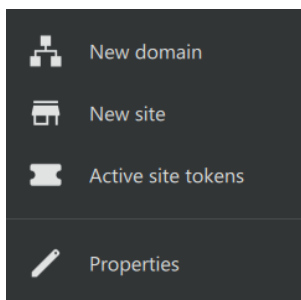
Enterprise menu:

- Add a new domain
- Add a new site
- View active site tokens



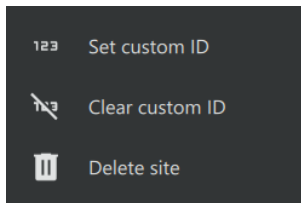
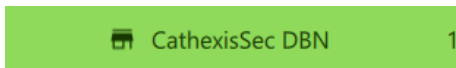
MultiSite menu:

- Add a new site
- View active site tokens



Domain menu:

- Add a new domain
- Add a new site
- View active site tokens
- Configure properties

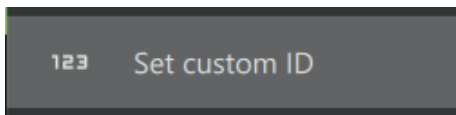


Site menu:

- Set custom ID
- Clear custom ID
- Delete site

8.1.2 Set Custom ID

Currently, custom resource IDs are only used for control of the Cathexis KBD3000 keyboard. To assign a custom ID to a resource or site:



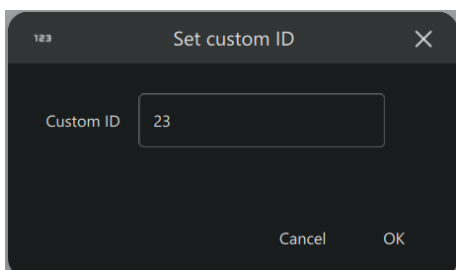
→ **Sites (Enterprise or MultiSite connections):** Right-click the site name in the Domain panel on the left.

→ **Resources:** Right-click the resource name in the Configuration panel on the right.

→ Click **Set custom ID**. The **Set custom ID** dialogue will open.

→ Enter a custom ID. **Note:** Custom IDs must be numerical.

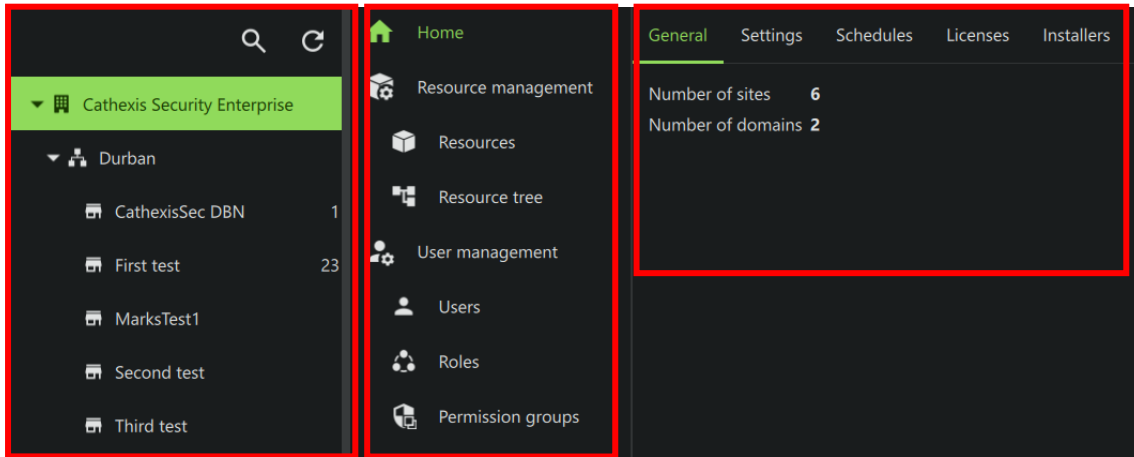
→ Click **OK**.



8.2 Home Menu

The Home menu options differ between Site, MultiSite and Enterprise connections. The options presented will in the Home menu will differ, depending on which of the following is selected in the Domain panel:

- Enterprise
- A Domain
- A site

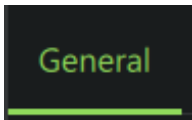


Domain panel

Menu panel

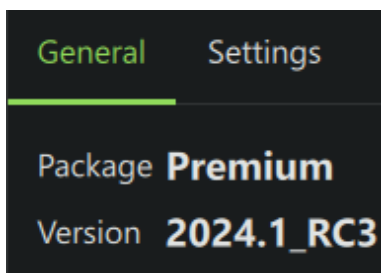
Configuration panel (Tabs)

8.2.1 General



In the configuration panel, select the **General** tab.

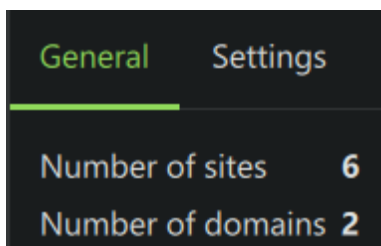
8.2.1.1 Site Selected



The General tab shows the following information:

- The site’s CathexisVision package
- The site’s CathexisVision version

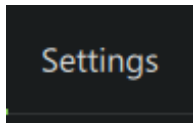
8.2.1.2 Domain, Enterprise or MultiSite Selected



The General tab shows the following information:

- Total number of sites in the domain/Enterprise/MultiSite
- Total number of domains or sub-domains

8.2.2 Settings



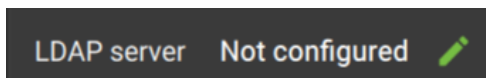
→ In the Configuration panel, select the **Settings** tab.



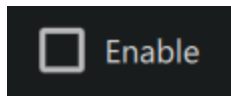
→ To change settings, hover over the field and click the green **edit icon** that appears.

8.2.2.1 LDAP Server (Enterprise Only)

Lightweight Directory Access Protocol (LDAP) makes it possible for applications to query user information rapidly.

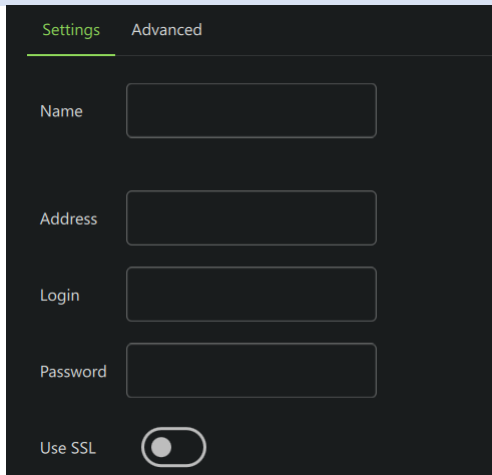


→ Click anywhere in the field (in the right panel) to open the LDAP server settings dialogue.



→ Click the checkbox to Enable.

LDAP Server Settings Tab

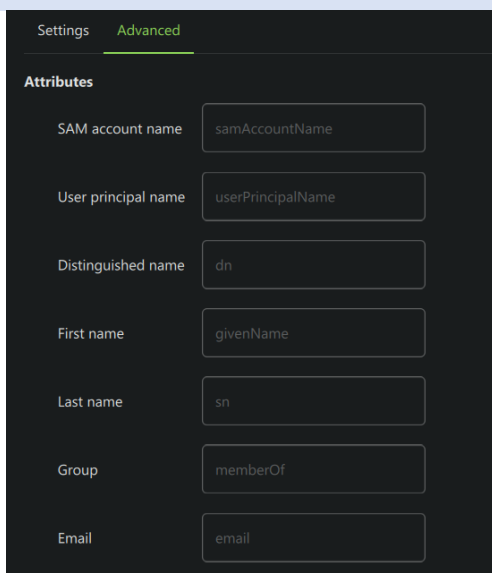


→ Enter the LDAP server details in the fields: Name, Address, Username and Password.

→ Toggle the switch to use SSL.

→ Click **Test connection** to test the connection.

LDAP Server Advanced Tab



→ Click the Advanced tab to open more settings.

→ Enter the text in the fields.

→ Click **Test connection** to test the connection.

8.2.2.2 Email Server

→ Click anywhere in the field (in the right panel) to open the Email server settings window.

Email Server Settings Tab

Note: Identifying information has been redacted from the image alongside.

→ Enter the Email server details in the fields: Server name, Sender email address, and Sender name.

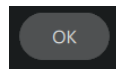
→ Use the **plus** or **minus icons** to select the port.

→ Select the connection security: None, SSL/TLS or STARTTLS.

→ Choose an authentication method: None, Normal password, or Encrypted password.

→ Enter a username.

→ Enter a password.



Click OK to save changes.

Email Server Test Tab

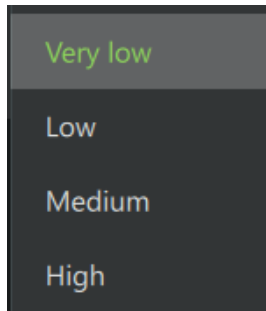
→ Click the Test tab to configure a test email.

→ Enter information in the fields and click **Send email**.

8.2.2.3 Password Complexity

Set the level of complexity required for the passwords of users in the organisation.

→ Select the complexity required for the organisation’s passwords.



Very low. Passwords must contain a minimum of 4 characters.

Low. Passwords must contain a minimum of 8 characters.

Medium. Passwords must contain a minimum of 8 characters, and meet 3 of the following criteria:

- At least 1 upper case
- At least 1 lower case
- At least 1 number
- At least 1 symbol

High. Passwords must contain a minimum of 8 characters, and meet *all* of the following criteria:

- At least 1 upper case
- At least 1 lower case
- At least 1 number
- At least 1 symbol

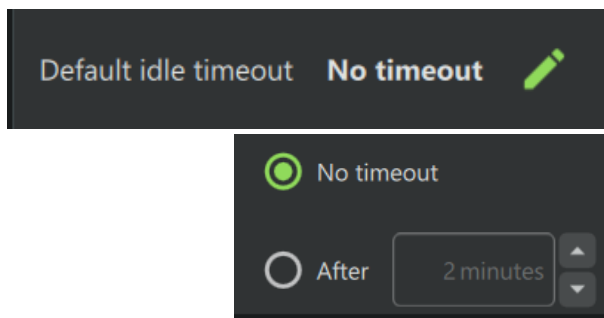


Click to save changes.

8.2.2.4 Default Idle Timeout

The idle timeout is the duration of idle time (user inactivity) after which the session will time out.

Note: The default idle timeout (configured in the Home menu) is a global setting that applies to all users. There is also the option to override this, and change the idle timeout for an individual user. See [Default Idle Timeout](#).

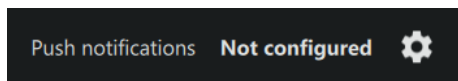


→ Click anywhere in the field to edit the default idle timeout.

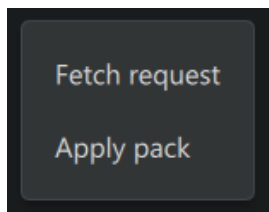
→ Click the **save icon** to save changes.

8.2.2.5 Push Notifications

Push notifications for CathexisVision Mobile can be sent from a site, MultiSite or Enterprise. The server must be configured first. To enable push notifications, follow the steps below.



→ Click the gear icon.



→ Click **Fetch request**.

→ Save the file to a location on the machine.

→ Send the request file to Cathexis Support at support@cathexisvideo.com. Support will send back a pack file.

→ Return to the configuration panel in the Configuration tab.

→ Click the gear icon.

→ Click **Apply pack**. A browser will open displaying the directories.

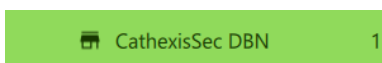
→ Locate the recently downloaded pack file and select it. Click **Open**.

→ This will enable push notifications.

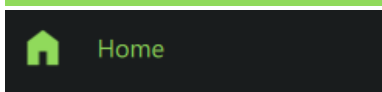
Consult *CathexisVision Mobile App-note* for instructions on using push notifications in the mobile app.

8.2.2.6 Connection Policy (Sites Connected to MultiSite or Enterprise)

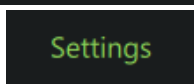
The connection policy for sites connected to MultiSite or Enterprise may be edited.



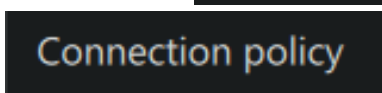
→ Select the site in the domains panel.



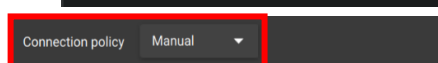
→ Click **Home** in the menu panel.



→ Click the **Settings** tab in the configuration panel.



→ Click anywhere in the **Connection policy** field. The options for editing will appear.



→ Choose between Manual and Auto.



For instructions on completing this step of configuring a site's connection to MultiSite or Enterprise, see [Complete Configuration of Site Connection in Carbon](#).

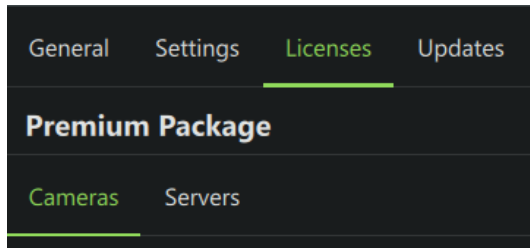


→ Click the **save icon** to save changes.

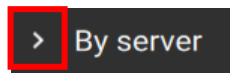
8.2.3 Licenses

- Select the site, domain, MultiSite or Enterprise in the domains panel.
- Select **Home** in the menu panel.
- Select the **Licenses tab** in the configuration panel.

8.2.3.1 Site Selected



When a site is selected in the domains panel, summaries of licensing information about the site's **cameras** and **servers** are displayed in the configuration panel.

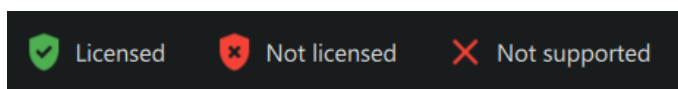


Click the arrow to reveal information about cameras grouped by servers.

8.2.3.2 Domain, Enterprise or MultiSite Selected

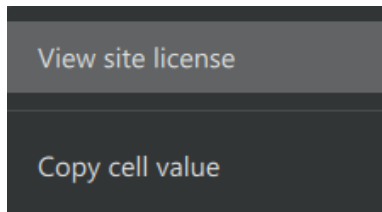
GENERAL SETTINGS <u>LICENSES</u>									
Site ^	Package	Year	MultiSite	Installed cameras	Unlicensed site cameras	Unused site camera licenses	Unlicensed MultiSite cameras	Unused MultiSite camera licenses	Maps
SiteName	Premium	2023	✓	4	0	15	0	Unlimited	✓
Webinar Demo	Premium	2023	✓	14	0	6	0	Unlimited	✓

When a domain, MultiSite installation or Enterprise 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 that domain, MultiSite installation or Enterprise installation.



- Site name
- CathexisVision package
- CathexisVision release year
- MultiSite/Enterprise registration status
- Number of cameras installed
- Number of unlicensed site cameras
- Number of unused site camera licenses
- Number of unlicensed MultiSite/Enterprise cameras
- Number of unused MultiSite/Enterprise camera licenses
- Map support status
- Alarms support status
- Video Wall support status

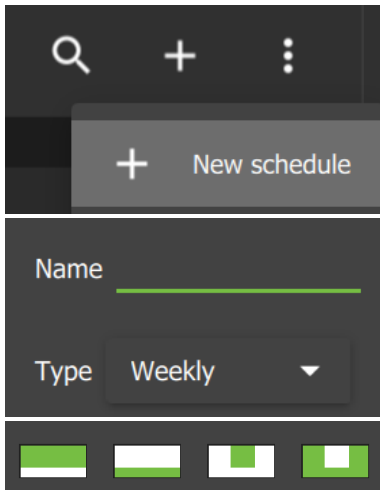
Right-Click Options



- **Right-click a site name.**
- Click “View site license”. A new dialogue will open. The new dialogue has two tabs, which show summaries of licensing information about the **cameras** and **servers**.
- Click “Copy cell value” to copy the cell text to the clipboard.

8.2.4 Schedules (MultiSite or Enterprise)

- Select the MultiSite or Enterprise in the domains panel.
- Select **Home** in the menu panel.
- Select the **Schedules tab** in the configuration panel.

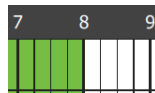


- To create a new schedule, either click the **plus icon** in the top-right corner or click the **kebab icon** and select **New schedule**.
The New schedule dialogue will open.

- 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. 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.

8.2.5 Site Updates (Enterprise Connections Only)

It is possible to upload installers on an Enterprise, and distribute and install the software across many sites.



Note: Administrators can select which users have the access rights for uploading installers to the Enterprise. This permission can be set for a user in the **Configuration tab / Users / Right-click user / Properties / Permissions / Global** (Refer to [Manage Permissions: Global Tab](#) for instructions on how to do this.) The following instructions assume that the user has the necessary permissions to view and edit updates in Enterprise.

- Select the Enterprise in the domains panel.
- Select **Home** in the menu panel.
- Select the **Installers tab** in the configuration panel.

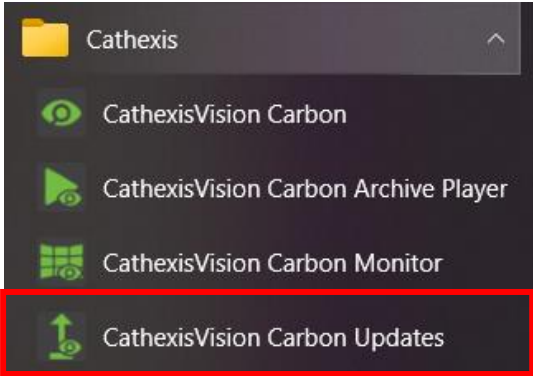
8.2.5.1 Supported Installers

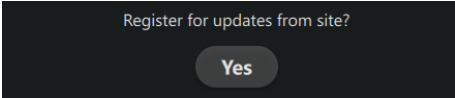
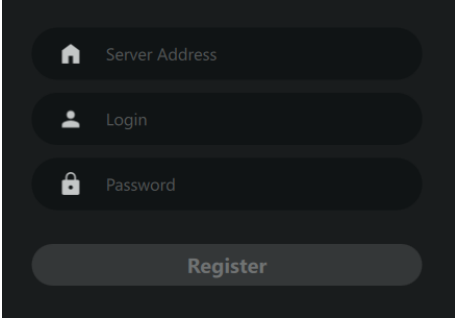
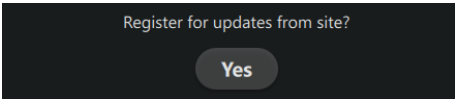
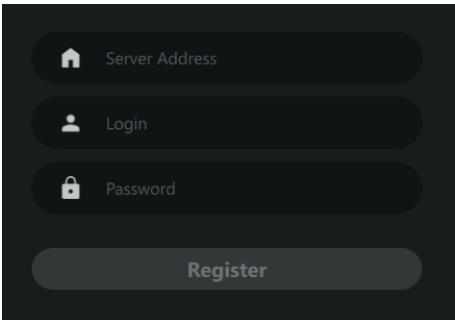
This feature currently supports the following installers:

- Carbon client software (desktop app)
- CathexisVision server software (NVR)
- CathexisVision client software

8.2.5.2 Register for Site Updates

Before using the site updates feature, software must first be registered to a main site, which in turn is connected to an Enterprise. The table below contains instructions on how to register for site updates for each type of software.

<p>Carbon (client software)</p>	<p>Carbon client software must be registered with a site. To do that:</p> <p>→ Open the computer’s Start menu and navigate to the CathexisVision Carbon Updates app. It can be found in the Cathexis folder.</p> <div style="text-align: center;">  </div> <p>→ Open the app. The CathexisVision Carbon Updates window will open.</p>
----------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

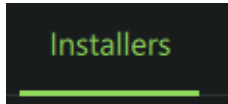
	<p>→ Click Yes.</p>  <p>→ Enter the server address, username, and password of the site to which the Carbon client software is being registered.</p> <p>→ Click Register.</p> 
<p>CathesisVision (server software)</p>	<p>CathesisVision server software will be registered automatically.</p> <ul style="list-style-type: none"> • The software on the main site server or failover server will be tagged as the “master” (primary) server in the Updates tab (in the Carbon Configuration tab). • Slave (secondary) servers will register to the master server automatically, and will appear as a server listed under the main site in the Updates tab (in the Carbon Configuration tab).
<p>CathesisVision (client software)</p>	<p>CathesisVision client software must be registered with a site. To do that:</p> <p>→ Open the computer’s Start menu and navigate to the CathesisVision Client Updates app.</p> <p>→ Open the app. The CathesisVision Client Updates window will open.</p> <p>→ Click Yes.</p>  <p>→ Enter the server address, username and password of the site to which the CathesisVision client software is being registered.</p> <p>→ Click Register.</p> 

8.2.5.3 Perform Site Updates

Once the software has been registered for site updates, it can be updated. Follow these steps to perform site updates:

1. Upload the installer to the Enterprise.
2. Update the target software by sending the installer from the Enterprise to a site.

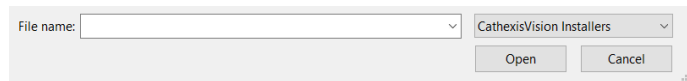
1. Send Installer to Enterprise



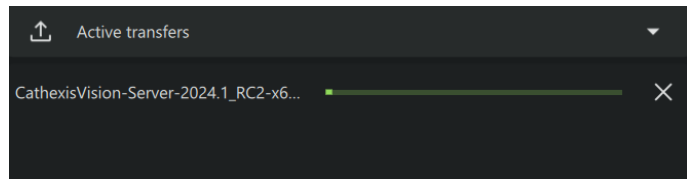
→ With the Enterprise selected in the Domain panel, and the Home menu selected in the Menu panel, select the Installers tab.



→ To add an installation file to an Enterprise, click the plus icon. The **Send installers to Enterprise** dialogue will open.



→ Select the installation file and click **Open**.



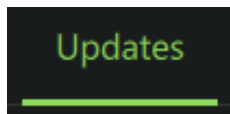
Note: Navigating away from the updates view during an upload to the Enterprise will cancel the upload.

2. Send Installer to a Site

After the installer has been uploaded to the Enterprise, the target software can be updated immediately, or at a later point. The method chosen will depend on the site's operational requirements. Either:

- A) Send the installer to the site **for later use**, OR
- B) Send the installer to the site to update one of the site's connected clients **immediately**.

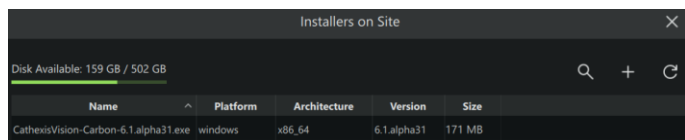
OPTION A: Send Installer to site for later use



→ With the **site** selected in the Domain panel, and the Home menu selected in the Menu panel, select the **Updates** tab.

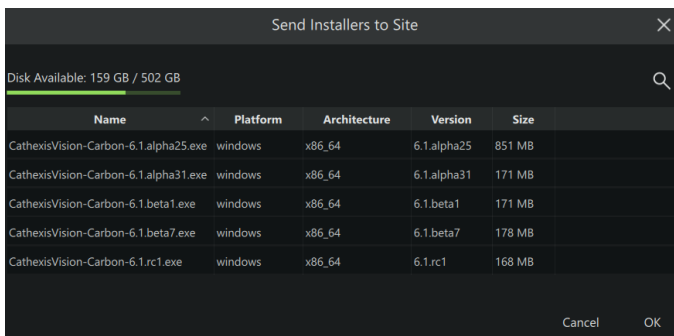


→ Click this icon in the top-right corner. The **Installers on site** dialogue will open.





→ To add an installation file to a site, click the plus icon in the **Installers on Site** dialogue. The **Send installers to Site** dialogue will open, showing the installers that have been uploaded to the Enterprise.

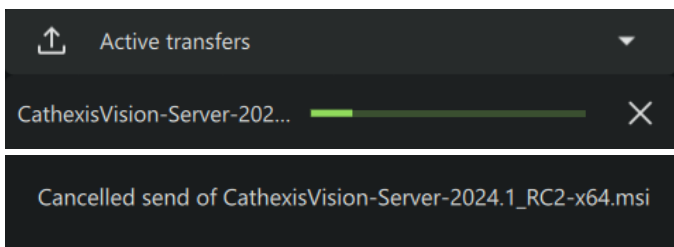


→ Select an installer from the list and click **OK**. The installer will be added to the site for later use. The number of installers that can be added to a site will depend on the site's available storage.

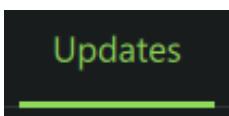
Note: To select multiple items, use *SHIFT+Click*. To select all items, enter *CTRL+A*.



→ To cancel an active transfer, click the **cancel icon**.

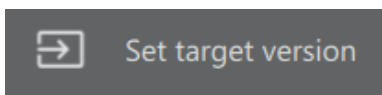
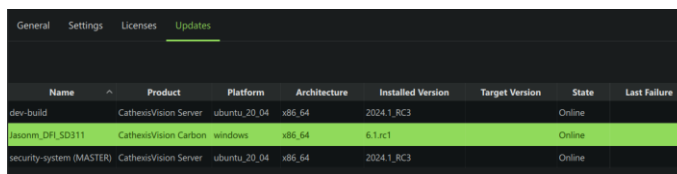


OPTION B: Send installer to site to update software immediately



→ With the **site** selected in the Domain panel, and the Home menu selected in the Menu panel, select the **Updates** tab.

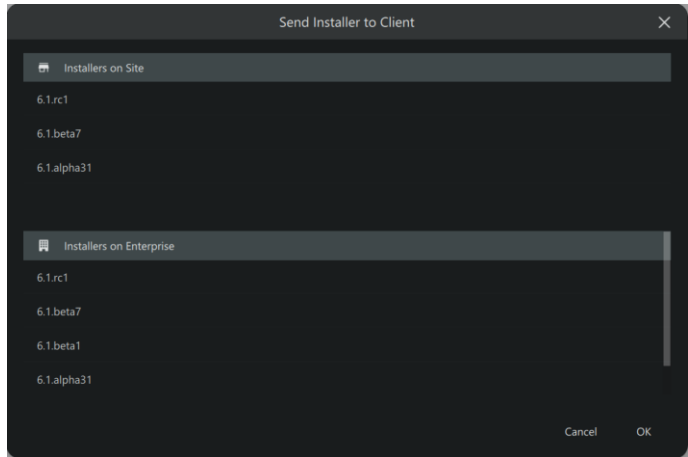
The list of software installed on the site, which can be selected to update, will be displayed in the configuration panel on the right.



→ Click the name of the software that is to be updated. (**Note:** Multiple items may be selected using **CTRL+click**. For example, select multiple items of the Carbon client software to be updated in a batch.)

→ Right-click and select **Set target version**.

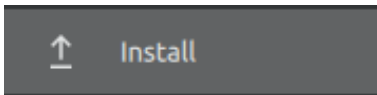
The **Send Installer to Client** dialogue will open, showing the available installers on site and on the Enterprise.



→ Select an installer from the list and click **OK**.

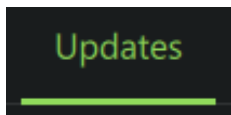
Target Version	State	Last Failure
2024.1_RC5	Ready to install	

The software state will change to “Ready to install”.

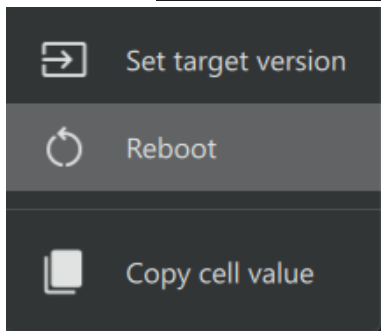


→ Right-click the name of the software in the list. Click **Install**.

8.2.5.4 Reboot Machine

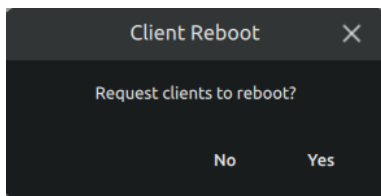


→ With the **site** selected in the Domain panel, and the Home menu selected in the Menu panel, select the **Updates** tab.



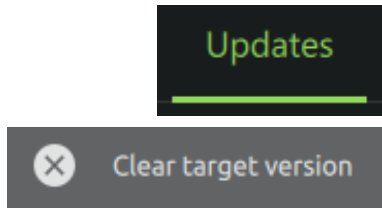
→ Right-click a machine name from the list.

→ Select **Reboot**. The **Client Reboot** pop-up will open.



→ Click **Yes** to agree.

8.2.5.5 Clear Target Version

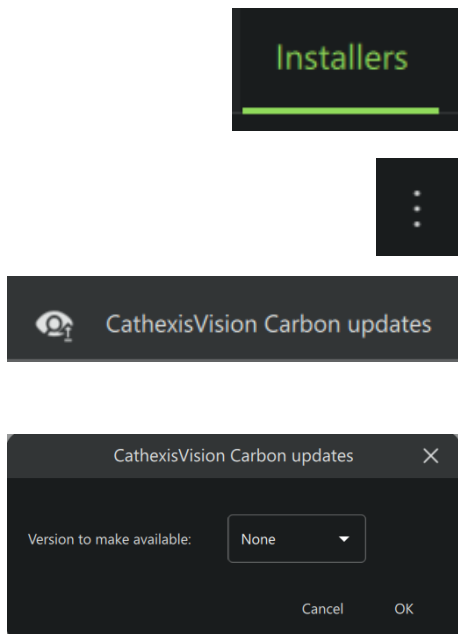


- With the **site** selected in the Domain panel, and the Home menu selected in the Menu panel, select the **Updates** tab.
- Right-click a machine name from the list.
- Select **Clear target version**.

8.2.5.6 Set Carbon Version for Connected Clients

It is possible to set the Carbon version for all Carbon clients that are connected to the Enterprise. These Carbon clients will then be updated whenever updates are available. The versions available are based on the versions of Carbon that have been uploaded to the Enterprise.

To set the Carbon version, follow these steps:



- With the **Enterprise** selected in the Domain panel, and the Home menu selected in the Menu panel, select the **Installers** tab.
- Click the menu icon in the top-right corner. A drop-down will open.
- Click **CathesisVision Carbon updates**.
The **CathesisVision Carbon updates** dialogue will open.
- Click the arrow to view the options and click to select one.
If **None** is selected, Carbon clients will not be required to update.

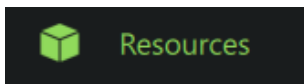
8.3 Resource Management

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.

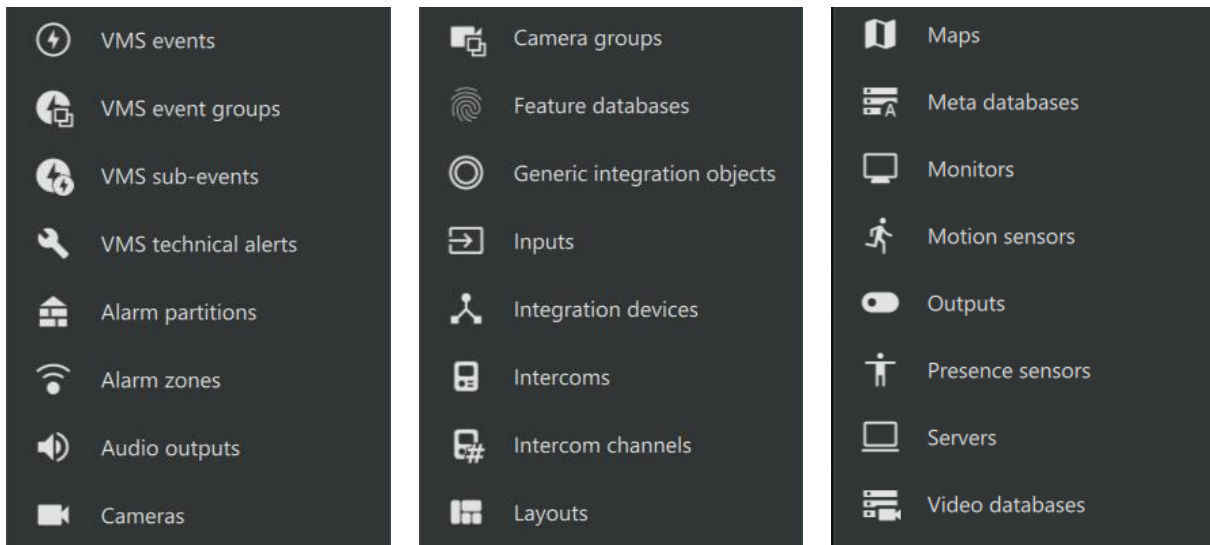
8.3.1 Resources



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

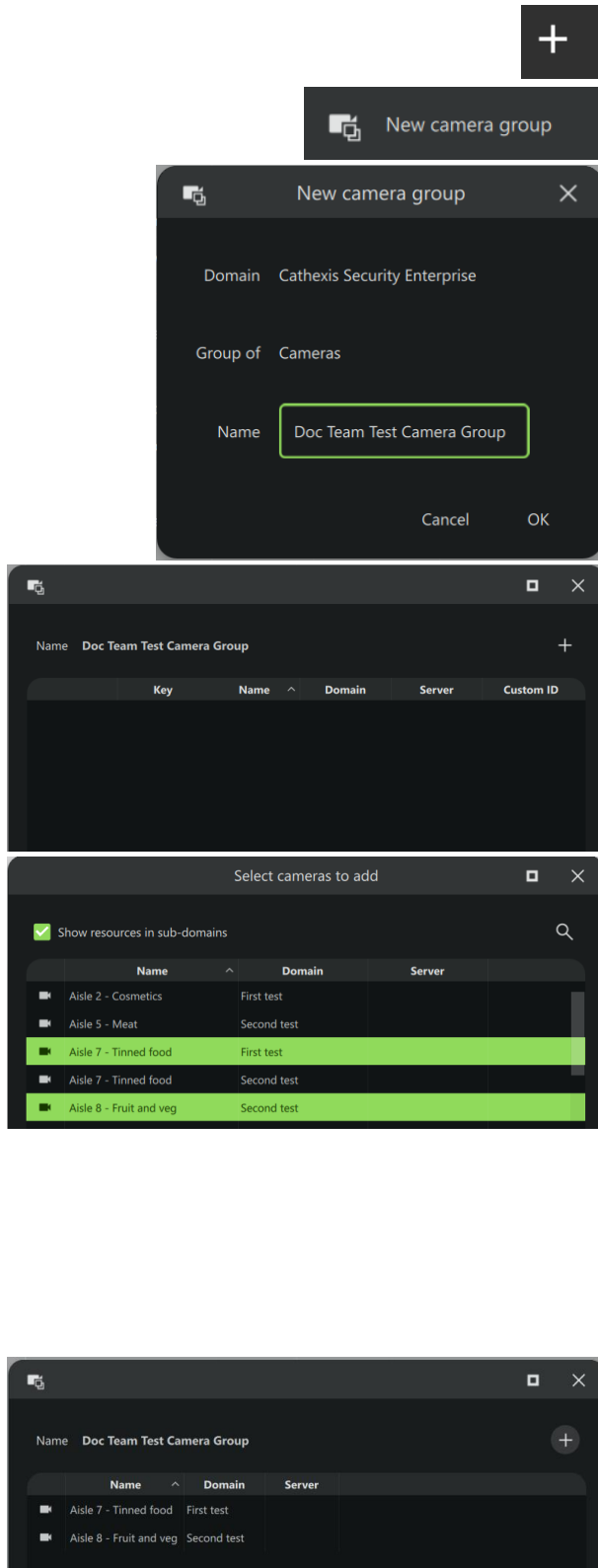
All resources will appear in a list on the main panel. The type of resource is indicated by an **icon** next to the resource name.



Navigation

	Search icon	Search resources.		Plus icon	Add New camera group, new VMS event group, new monitor or new video wall.
	Filter icon	Select Resources to view.		Menu icon	Show resources in sub-domains or refresh.

8.3.1.1 Add Camera Group to Resources



- Select **Resources** in the left panel.
- Click the **plus icon** at the top-right of the screen.
- **Select** New camera group.
- Give the group a descriptive **name**.

→ Click **OK**. A new dialogue 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 the Resource Management section.

Changes will save on exit.

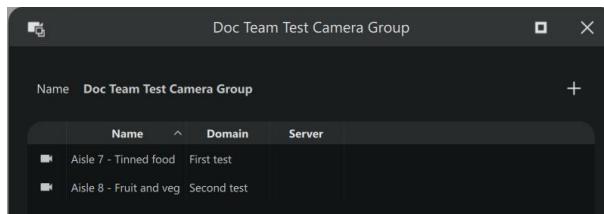
8.3.1.2 Edit or Remove Camera Group

→ Select **Resources** in the left panel. All resources, including camera groups, will appear in a list on the main panel.



→ Click a **resource group** from the list in the main panel to select it. Resource groups are indicated by the **groups icon**.

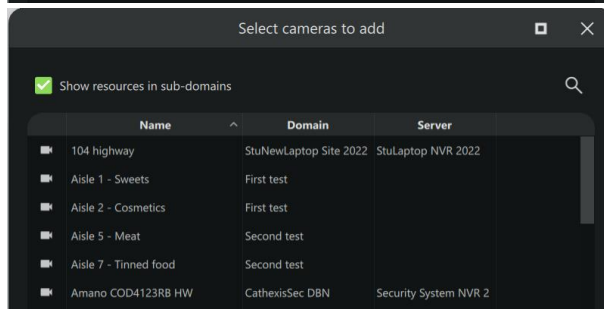
→ Double-click the resource group.



A new dialogue will appear showing the cameras in the group.



Click the **plus icon** from this window to add an item to the group.



Another dialogue will open.

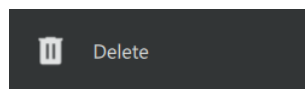


Click the **search icon** to find a camera by name.

→ Click a **camera** to select, or use Shift+click / Ctrl+click to select multiple cameras.

→ Click **OK**.

→ **To delete a camera group, right-click** an item and click **Delete**.



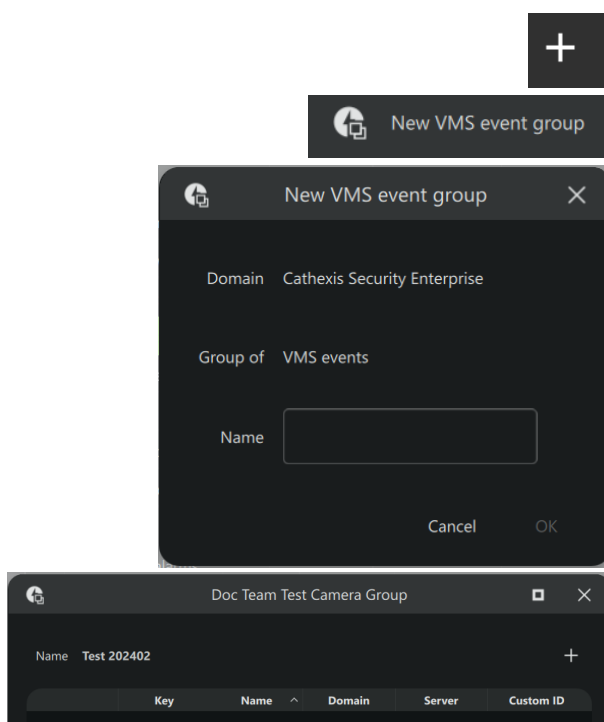
8.3.1.3 Create New VMS Event Group

→ Select **Resources** in the left panel.

→ Click the **plus icon** at the top-right of the screen.

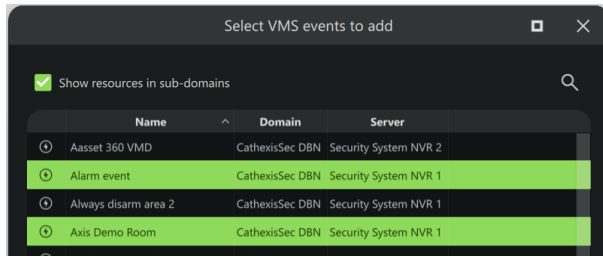
→ Select **New VMS camera group**.

→ Give the group a descriptive **name**.



→ Click **OK**. A new dialogue will open.

→ Click the **plus icon** to **add a VMS event** to the group.



→ 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 New Monitor or New Video Wall

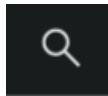
For more information on configuring monitors and video walls, see [Video Walls Tab](#).

8.3.1.5 Search and Filter Resource Groups



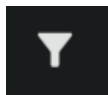
Use the **search** and **filter icons** at the top of the screen to search for a resource or filter results.

Search



To **search by term**, click the **search icon**. Enter a term into the field that opens.

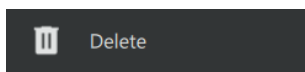
Filter



To filter results, click the **filter icon**. Choose from the **drop-down menu**.

8.3.1.6 Delete a Resource

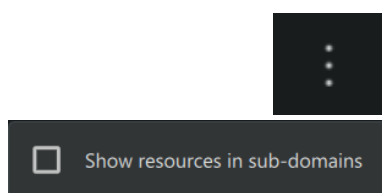
→ **Click Resources.**



→ **Right-click** the resource item on the list. This will bring up the option to Delete.

→ **Click Delete.**

8.3.1.7 Show Resources in Sub-Domains (MultiSite and Enterprise)



→ Click the menu icon in the top-right.

→ Select **Show resources in sub-domains**.

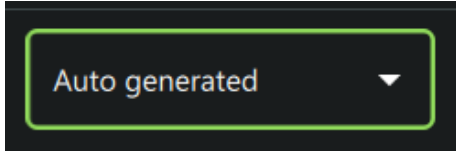
The resources of sub-domains will now be shown in the panel on the right.

8.3.2 Resource Tree: Auto or Manual Configuration (Sites and Enterprise)

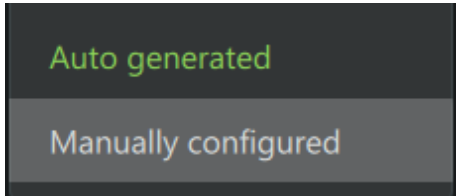
Users can change the resource tree settings to manual configuration of the folder layout.



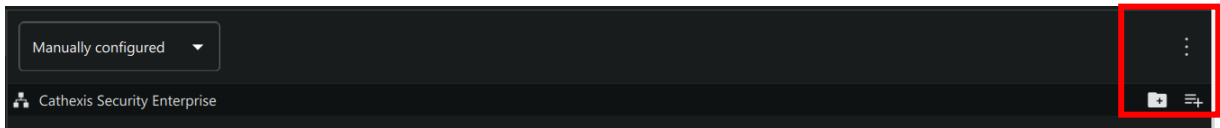
→ Navigate to the Resource tree **menu**.



→ 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](#))

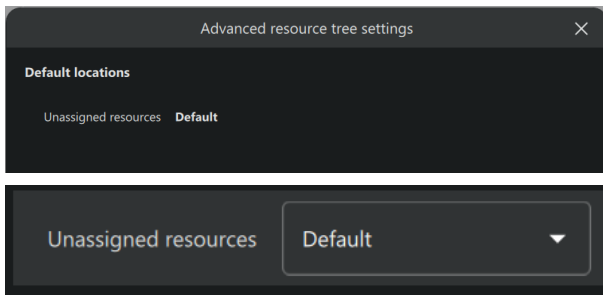
8.3.2.1 Manual Configuration: Advanced Resource Tree Settings

Use the Advanced settings to change default locations of the folder.

→ Click the menu icon.

→ Select **Advanced**. A dialogue will open.

→ 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 the save icon when finished.

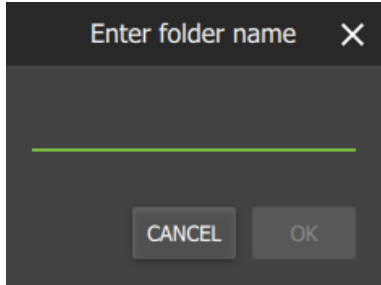
→ Or, click the cancel icon to exit without changes.



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**.

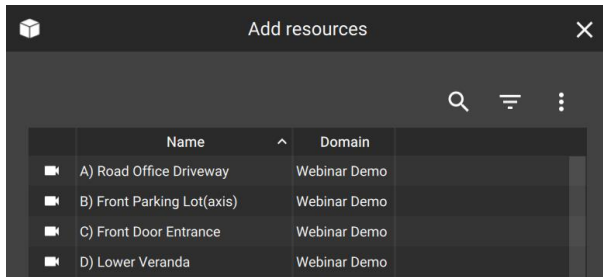
→ Click OK.

8.3.2.3 Manual Configuration: Add Resources



Click the **icon** to add resources.

The **Add resources** dialogue will appear.



Click the search icon to use **search terms**.



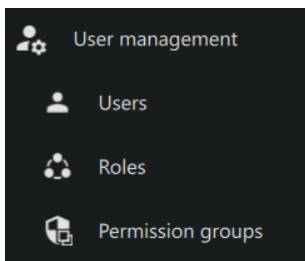
Click to **filter icon** to **sort** results:

- 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:**

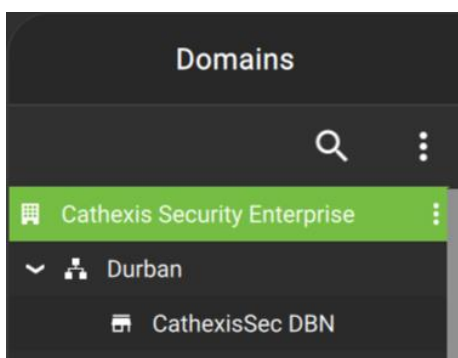
- The presentation of these options may differ among Site connections, MultiSite and Enterprise.
- Options presented will also depend on the user’s access rights.
- Users may only be added to or removed from the top-level domain in MultiSite.

Users	The Users section allows resources to be added to individual users. It also allows permissions for individual users to be managed.
Roles	Alternatively, access can be managed by allocating Roles to users.
Permission groups	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. Permissions for the permission group must be edited in the Users or Roles sections.

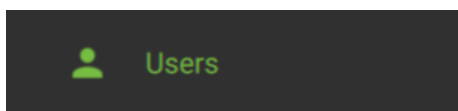


Note: New users for Site connections must be added in CathexisVision. To do so, navigate to **Site/Open tab/Setup** and select the Users icon. Consult the *CathexisVision Setup Manual* for more information.

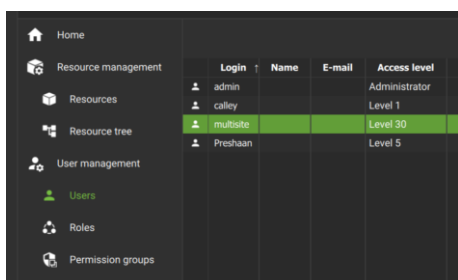
1. Navigate to Users



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 manage the following:

Settings

[Change User Details \(8.4.2\)](#)

Site roles

[Edit Site Roles \(8.4.3\)](#)

Note: The Site Roles option will only appear in MultiSite connections.

Permissions

[Manage User Permissions \(8.4.4\)](#)

Inherited roles

[Manage Inherited Roles \(8.4.5\)](#)

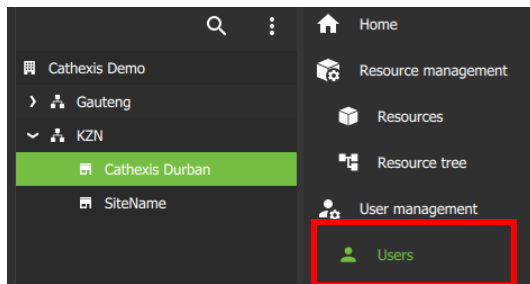
See instructions below.

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



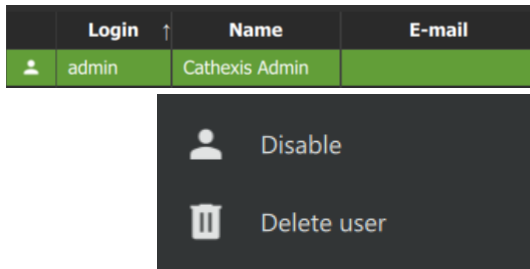
- Choose a domain / MultiSite / Enterprise.
- Click **Users** in the middle panel menu.



→ From the configuration panel on the right, click the plus icon. The **New user** dialogue will open.

- Enter the credentials for the new user.
- Click **OK**.

8.4.1.2 Disable or Delete a User



→ Right-click the user name.

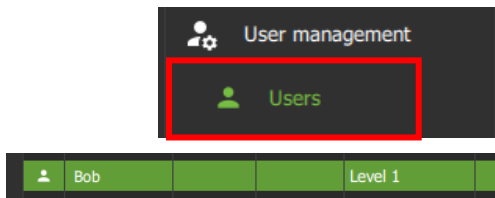
Disable: Click to disable the selected user.

Delete user: Click to delete the selected user.

8.4.2 Change User Details: Settings Tab

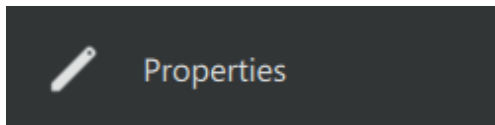
The name and surname of an existing user can be changed. To do that:

→ Select the site or domain in the domain panel on the left.



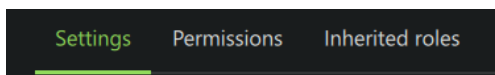
→ Click **Users** in the menu panel.

→ Double-click to select a user from the list in the configuration panel on the right.

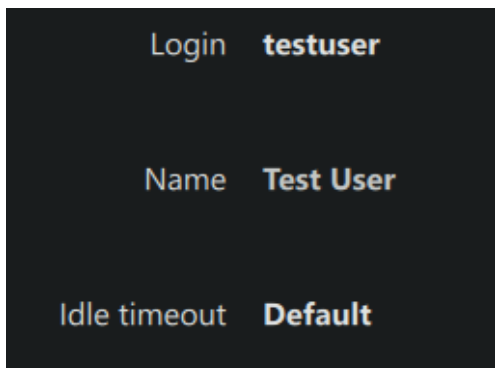


→ Alternatively, right-click the user name and select **Properties**.

A user settings dialogue will open. **Note:** The options displayed here will differ, depending on whether the connection is to a site, MultiSite or Enterprise.



→ Click the **Settings** tab in the new dialogue.



→ Click the **Name** field.



→ Or hover over the Name field and click the **edit icon** to select.



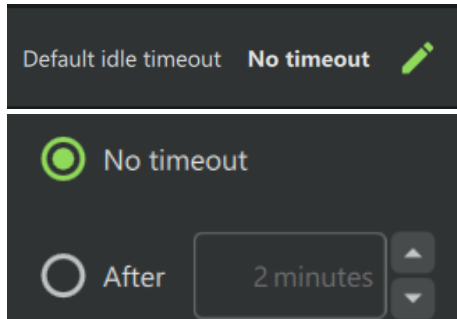
→ Type a **name** and **surname**.



→ Click the **save** icon.

8.4.2.1 Default Idle Timeout

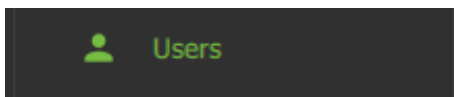
In addition to configuring a default (global) idle timeout, it is possible to configure a default idle timeout period for individual users.



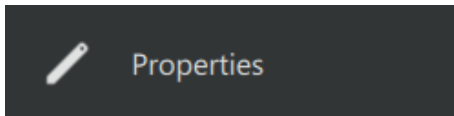
- Click anywhere in the field to edit the default idle timeout for the individual user.
- Select the desired delay.

8.4.3 Site Roles (MultiSite Only)

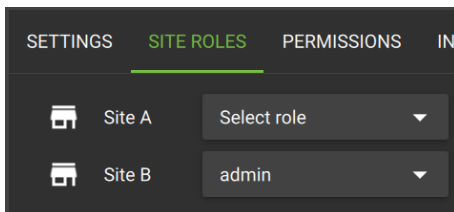
The Site Roles for MultiSite users can be edited.



- 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.

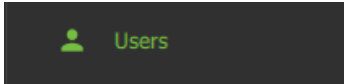
8.4.4 Manage User Permissions

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

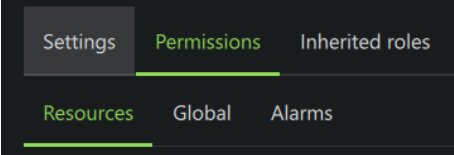
1. First, select the **resource type** to be added to a user.




→ 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 side by double-clicking.
A new dialogue will open.

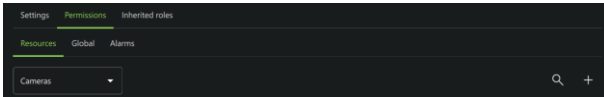


→ Click the **Permissions** tab.
→ Then, click the **Resources** tab underneath.

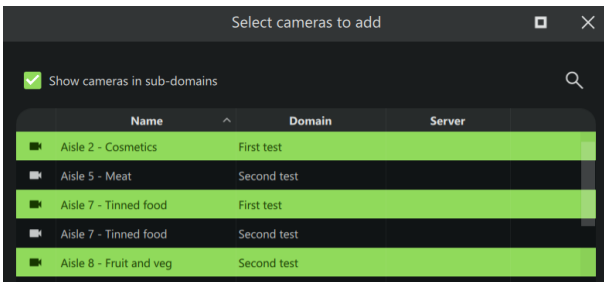


→ In the Resources tab, click the drop-down menu.
→ Click to select the **type of resource** from the drop-down menu.

2. Then, add the resource.



→ From the PERMISSIONS tab, click the **plus icon** to add a resource to the user.



→ **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.

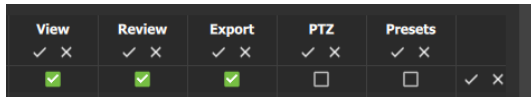
→ Click **OK**.

Once resources have been added, manage permissions/ access from the **PERMISSIONS** tab by using the **checkboxes**.

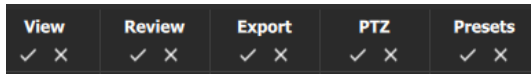
8.4.4.2 Manage Permissions: Modify Permissions for a User

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. Permission options differ for each resource. The following functions can be managed from the **PERMISSIONS** tab:

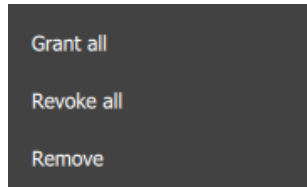
Function	Description - The user has permission to:
View	View the selected resource. If it is a camera, permission is given to view the camera in live mode.
Review	Review and search recorded footage from the camera.
Export	Export segments of video footage to another location, either from the archive builder 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.



→ **Check or uncheck** the **boxes** to add or remove permissions.



→ Click the tick or cross buttons along the top to check or uncheck **all items** in a column.

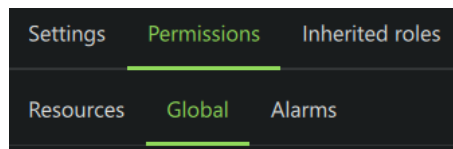


→ **Right-click** an item/resource for options to add or remove all permissions, or to delete the resource.

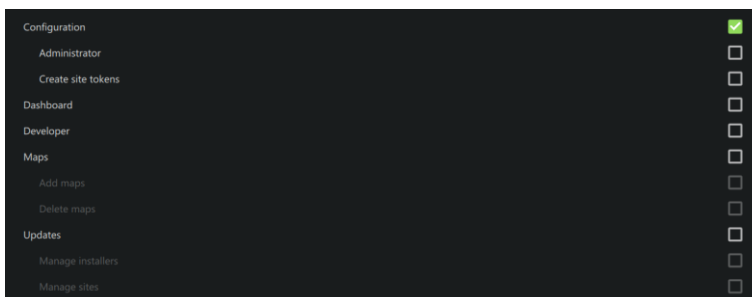
Note: Multiple users can be selected.

8.4.4.3 Manage Permissions: Global Tab

Global settings define user permissions for actions unrelated to individual resources, such as configuration.



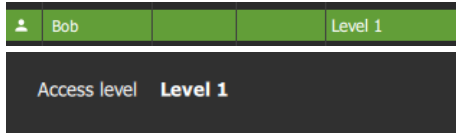
→ Click the **GLOBAL** tab to manage global settings.



→ **Check or uncheck** the boxes to modify global settings for a user.

8.4.4.4 View Permissions for a User

For some users in direct site connections, a summary of permissions/access can be viewed.

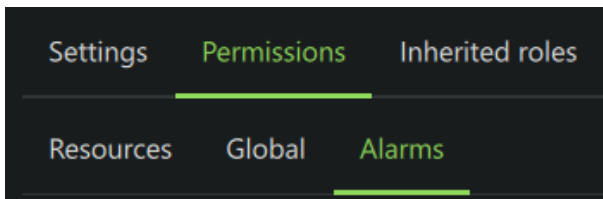


→ Double-click the user name to open the properties.

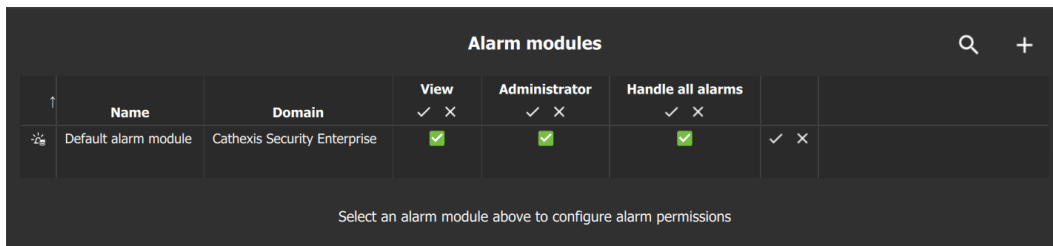
→ In the **SETTINGS** tab, double-click the field next to **Access level** e.g. Level 1. A view-only screen will open, showing the user's access permissions.

To edit permissions, use the **Permissions** tab and follow the steps in [8.4.4.2 Modify Permissions for a User](#).

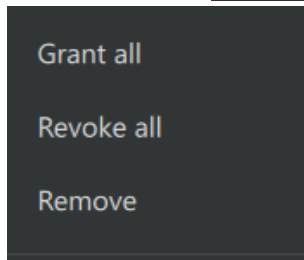
8.4.4.5 Manage Permissions: Alarm Tab (MultiSite and Enterprise)



→ Click the Alarms tab to set the alarm permissions for the selected user.

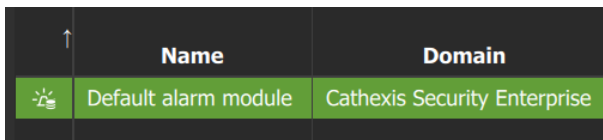


→ Click the plus icon to add an alarm manager.



→ Right-click an alarm module to view further options:

- Grant all (permissions)
- Revoke all (permissions)
- Remove alarm module



→ Click an alarm module to select it. The alarms for the selected module will display below.



→ Check or uncheck permissions as desired.



Click the plus icon to add an alarm.



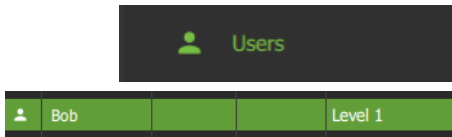
Click the search icon to search alarms.



Note: On MultiSite, the alarm module is created automatically. On Enterprise (Linux) the alarm module is created by running a script.

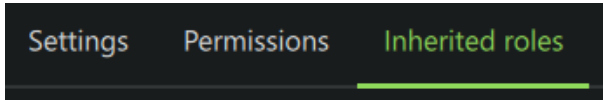
8.4.5 Manage Inherited Roles

Select **Inherited Roles** to [add a role to a user](#) or [remove a role](#) from a user.



→ Click **Users** to view users in a list.

→ Select the user from the list in the configuration panel by double-clicking. A new dialogue will open.

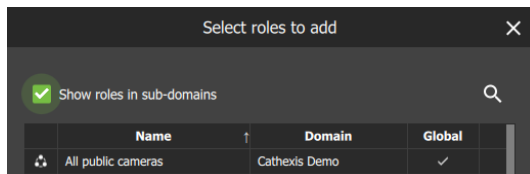


→ Select the **INHERITED ROLES** tab.

8.4.5.1 Add a Role to a User



Click the plus icon to add a role. A dialogue will open, showing available roles.

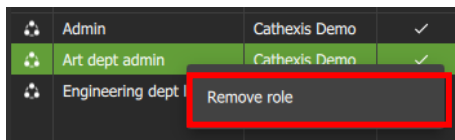


Select a role to add to a user. (Multiple items may be selected using Shift/Ctrl+click.)

→ Click **OK**.

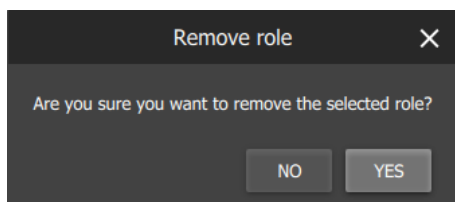
The added roles will reflect in the **Inherited roles** tab.

8.4.5.2 Remove a Role from a User



→ In the **Inherited roles** tab, right-click a role. **Note:** Multiple roles may be selected.

→ Select **Remove role**.



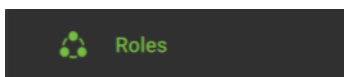
→ From the new dialogue, click YES to confirm.

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 [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

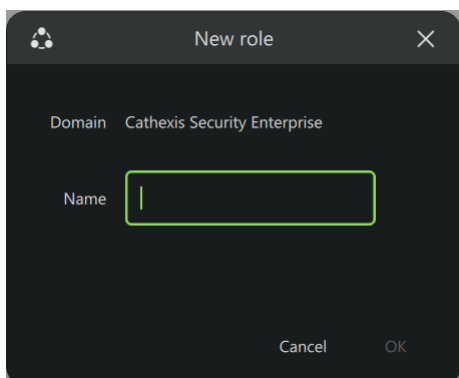


In the Menu panel, navigate to **User management**.

→ Click **Roles**.



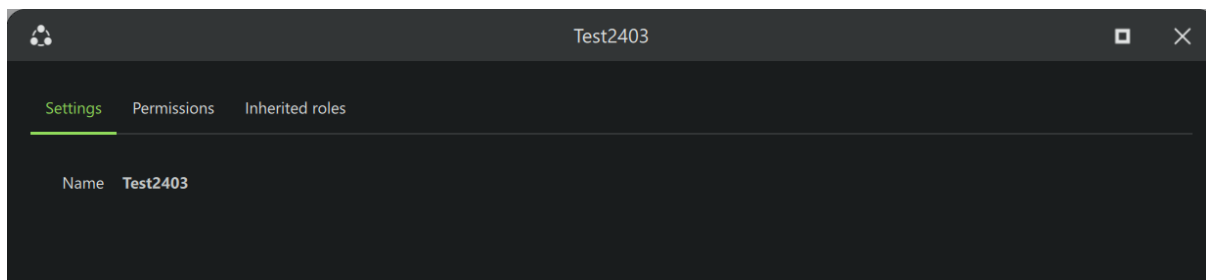
→ From the Roles section, click the **plus icon** on the right-hand side to add a new Role.



→ Enter a **Name** for the role.

→ Click **OK**.

A new window will open.



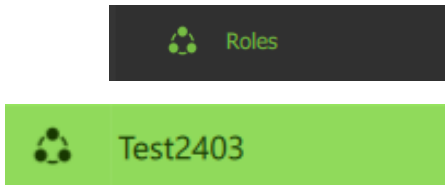
→ Use the **Permissions tab** to add resources to the Role, such as access to view cameras and outputs.

→ Use the **Global tab** to give access to other functions not related to resources, for instance, configuration.

See [Modify a Role: Permissions](#), below, for instructions on how to add resources or change access to global functions.

8.5.2 Modify a Role

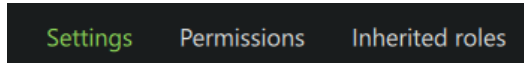
Roles can be associated with users. Users' access permissions will then be configured according to roles.



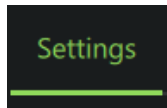
→ Navigate to the User management tab in the menu panel, and click **Roles**.

→ **Double-click** a role to edit. A new dialogue 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



→ Click the **Settings** tab.

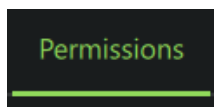
→ Click the **Name** field.

→ Enter a new name.



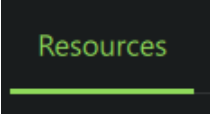
→ Click the **save icon** to save changes.

8.5.2.2 Modify a Role: Permissions



→ To edit access to resources, click the **Permissions** tab.


Resources



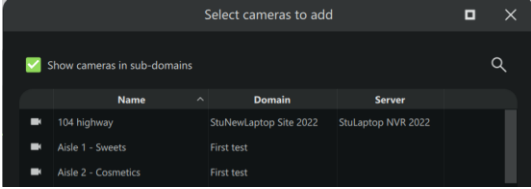
→ From the **Permissions** tab, click the **Resources** tab underneath.

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

→ Select the **type of resource**.

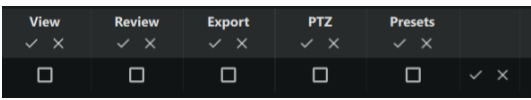


→ Click the **plus icon** to add a resource to the role.



→ Click the **items** (e.g. cameras or outputs) to select and add. Select multiple resources by using Shift+click /Ctrl+click.

→ Click **OK**.

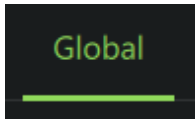


Permission options differ for each resource.

→ **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.

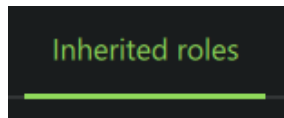


Global settings define user permissions for actions unrelated to individual resources, such as configuration. Global permissions apply to a domain and its sub-domains, and are not tied to specific resources. The permissions are multi-level, because this allows finer-grained permissions to be added, if required.

→ **Check** or **uncheck** the boxes to modify global permissions.

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.
Add maps	Permission for a user (without configuration access) to create maps.
Delete maps	Permission for a user (without configuration access) to delete maps
Updates	Permission to perform site updates.
Manage installers	Permission to manage installers added to the Enterprise.
Manage sites	Permission to add or remove sites.

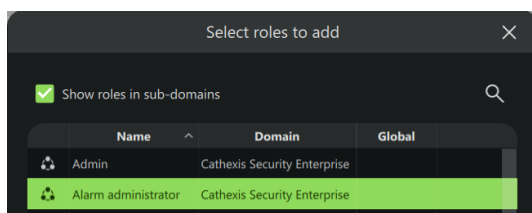
8.5.2.3 Modify a Role: Inherited Roles (Add a Role to Another Role)



Use the **Inherited roles** tab to add or modify inherited roles. Here, it is possible to *add* a role to *another* role.

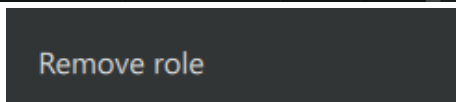


→ To add one role to another role, click the plus icon. The **Select roles to add** dialog will open.



→ Select a role from the list.

→ Click **OK**.

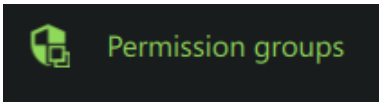


→ To remove an inherited role, right-click it.

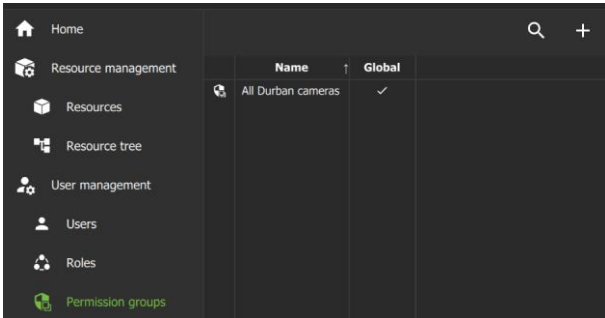
→ Click **Remove role**.

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.



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.



Click the **plus icon** to add a new permission group.



Click the **menu icon** to add a new group, 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.

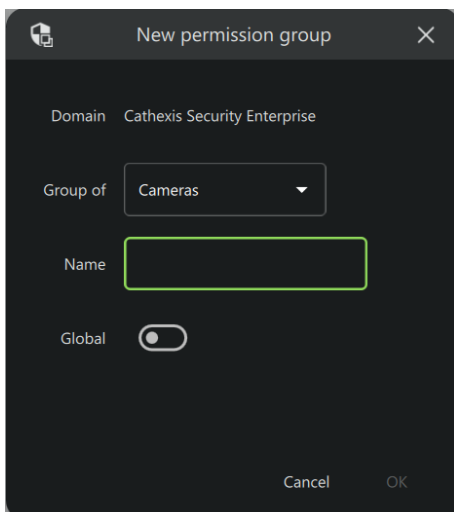
- For example, create an outputs permission group with a selection of chosen outputs.
- Then add this group to a role or to an individual user.
- This user/role will then have the configured permissions (view/control) these outputs.



Select the **plus icon** to add a new group;

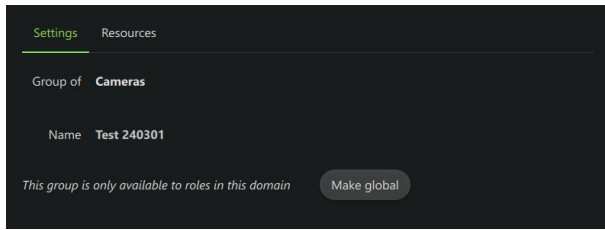


Or, select the menu icon on the top right panel and choose **New permission group** from the **drop-down** menu.

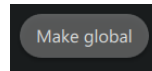


- Give the group a **descriptive name**.
- **Toggle** the switch to enable or disable **global** settings.
- Click the arrow/"Cameras" to select the type of resources to be added to the group.
- Choose a resource from the drop-down menu.
- Click OK to finish.

8.6.1.1 Create a New Permission Group: Settings

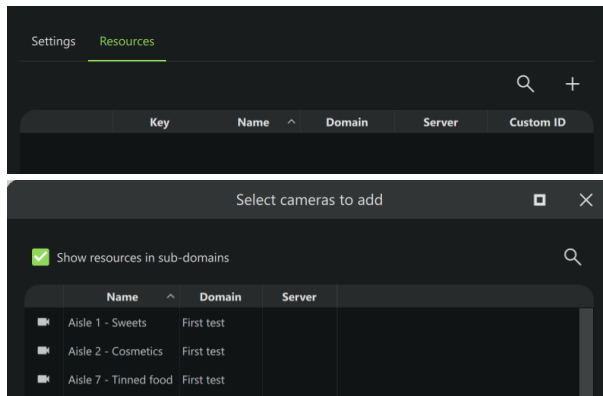


→ From the **Settings tab**, select the fields to edit the type of resource or group name.



Click **Make global** 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).



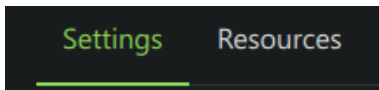
Click the **search icon** and enter a **search term** to filter results.

→ **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 dialogue will open.



→ Click the **Settings tab**.

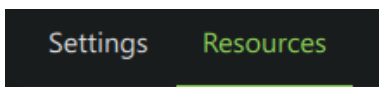


Hover over the group name until the **edit icon** appears.

→ **Edit** the name by **entering text** in the field.



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



→ Click the **Resources tab**. The resources in the group will be listed.



Click the **plus icon**. A dialogue will open with a list of resources, according to the type selected in the **Settings tab**.

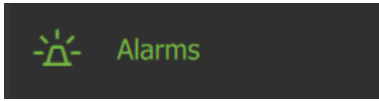


Click the **search icon** and enter a **term** to filter results.

→ Click a resource and click **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.



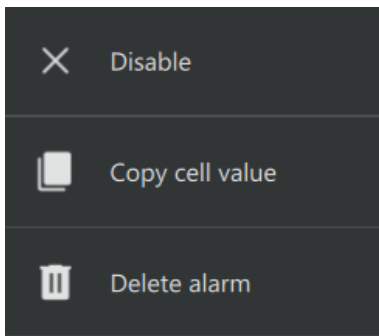
→ Select the site or Enterprise in the folder tree in the Domains panel.

→ Click **Alarms** in the Menu panel.

Existing alarms will be listed in the Alarm tab of the configuration area.

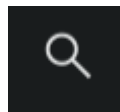
8.7.1 Alarms

Alarms		
Tags Procedures		
🔍 + ⋮		
Name ^	Domain	
Blue alarms	Cathexis Security Enterprise	
Doc Team Test	Cathexis Security Enterprise	
Motion	Cathexis Security Enterprise	
Paradox	Cathexis Security Enterprise	
Recording failure	Cathexis Security Enterprise	
Technical alarms	Cathexis Security Enterprise	

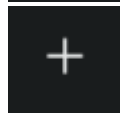


→ To disable an alarm, right-click it and click **Disable**.

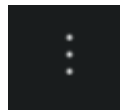
→ To delete an alarm, right-click it and click **Delete alarm**.



To search the alarms, select the **search icon** and type in the field that appears.

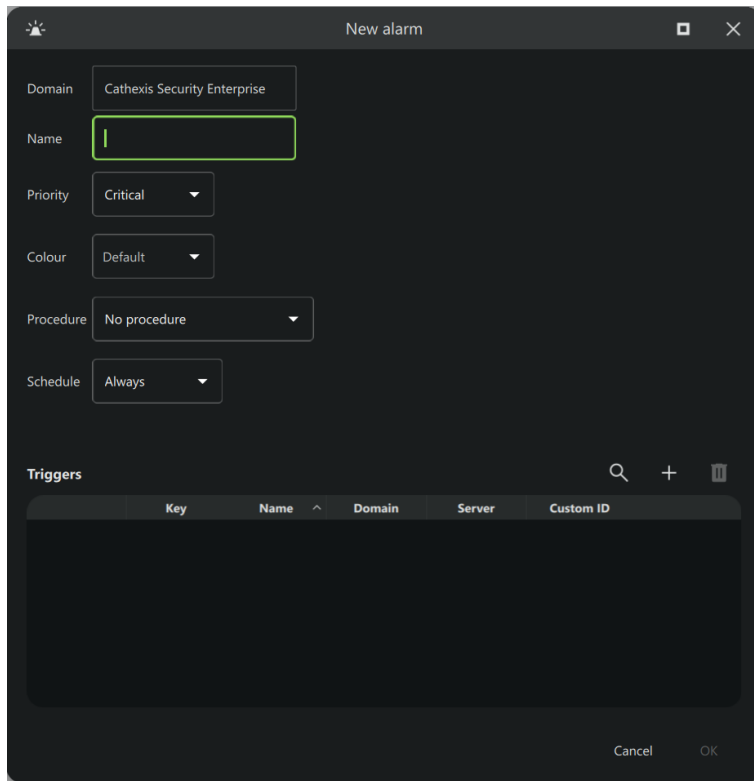


Select the **plus icon** to add a new alarm.



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

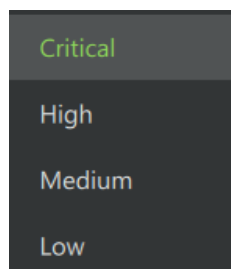
- Click the domain field. The **Select domain** dialogue will open.
- Select the domain or site.
- Click **OK**.

Name

→ Enter a name for the alarm.

Priority

→ Select a priority.



Colour



→ Choose a colour for the icon assigned to the alarm.

Procedure

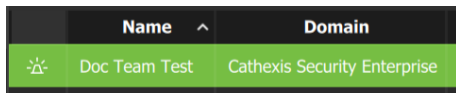
→ Assign a procedure to the alarm.

Schedule

→ Choose a schedule.

Triggers		→ Click the plus icon to add a trigger to the alarm. This will open the Add triggers dialogue.
		→ Click a trigger to select it. To select multiple triggers, Ctrl+click or shift+click.
		→ Click OK to save changes.
		→ To delete a trigger, select it, then click the delete icon.

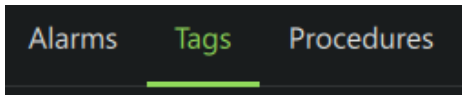
8.7.2.2 Edit Alarm



→ 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**.



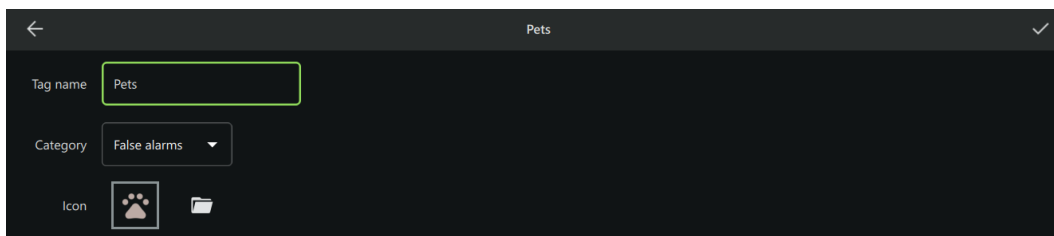
→ To search tags, click the **search icon**.



→ To add a new tag, click the **plus icon**.

8.7.2.1 Edit Tag

→ Double-click the name of a tag. This will open the editing options.



→ Edit the tag name in the field.



→ Click the folder icon to choose another icon.







→ Click the tick icon to save changes.

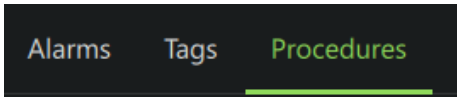


→ Click the arrow icon to go back to the Tags tab.

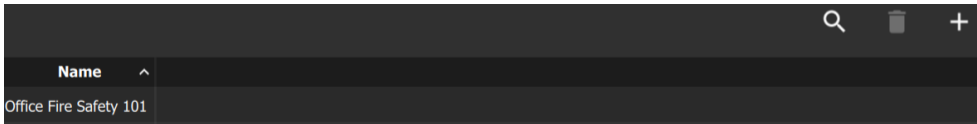
8.7.2.2 Create Tag

-  → To add a new tag, click the **plus icon**. This will open the editing options.
- 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.

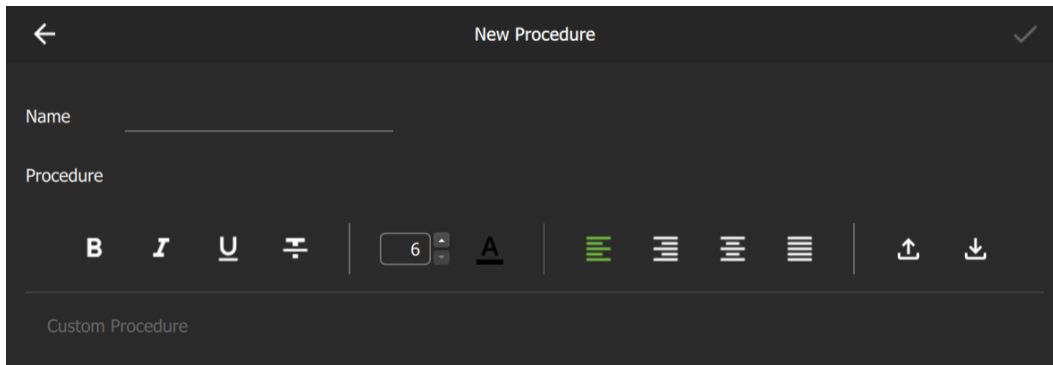


Name
Office Fire Safety 101

-  → 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 procedure, click the **plus icon**. This will open the **New Procedure** window.




New Procedure

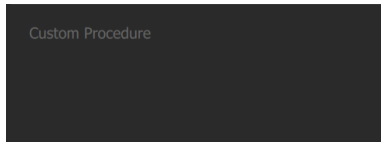
Name

Procedure

B ***I*** **U** **¶** | 6 | **A** |     |  

Custom Procedure

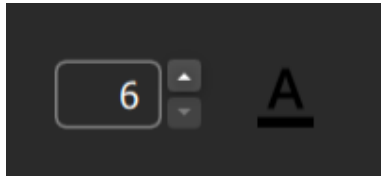
-  → Enter a name for the procedure in the text field.



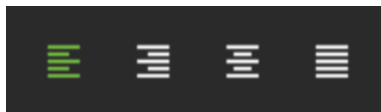
→ Click the custom procedure area and add the text of the procedure.



→ 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

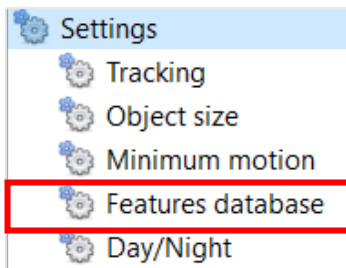
Feature Search allows the user to select an image of a person or vehicle and search camera feeds for similar images.



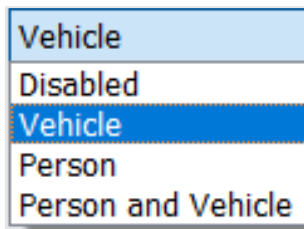
Note: To use Feature Search in Carbon, the features database must first be enabled in CathexisVision. The features database can only run on a master server. Feature Search is available with CathexisVision Advanced Analytics (License III).

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**.

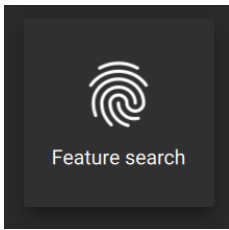


4. Click to enable the features database.
5. Choose from one of the following options: Vehicle, Person, or Person and Vehicle.



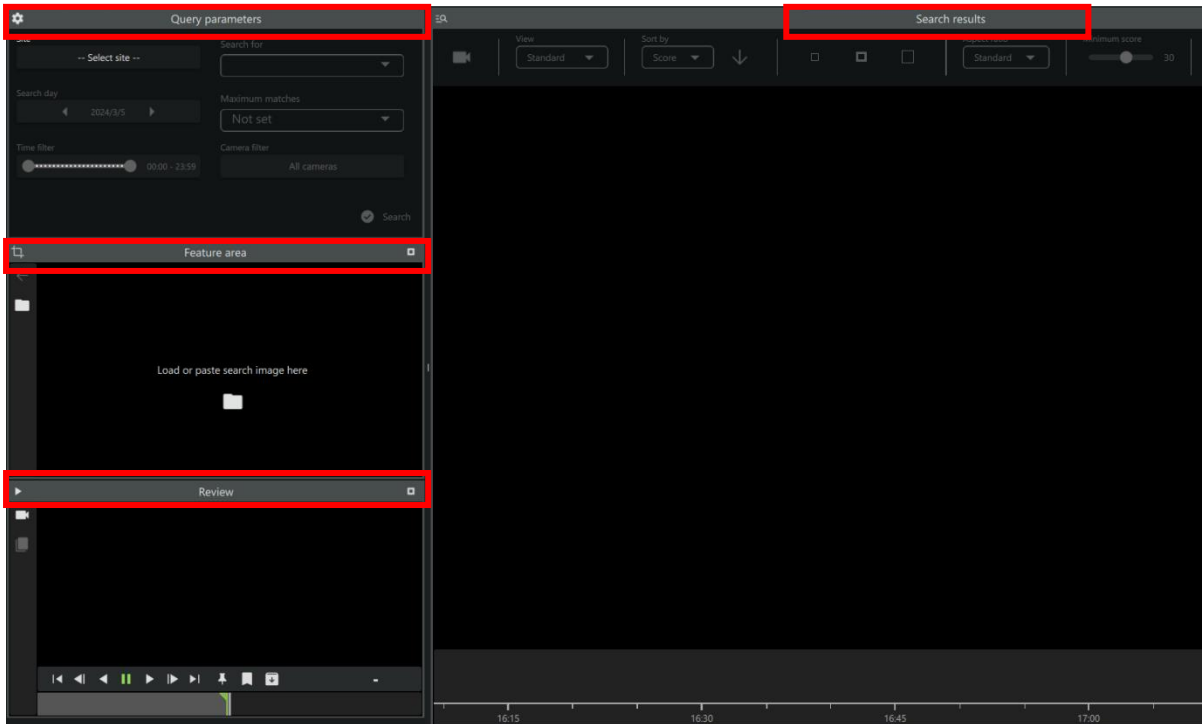
6. Complete analytics configuration and consult the *CathexisVision Setup Manual* for more information.

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**:

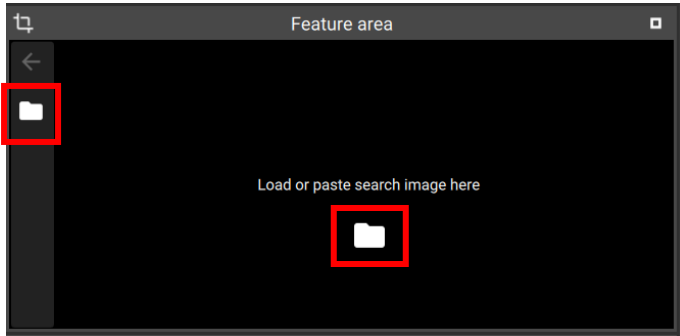
- Select image [\(9.2\)](#).
- Choose a feature area [\(9.3\)](#).
- Set query parameters [\(9.4\)](#).
- Search results [\(9.5\)](#).

9.2 Select Image

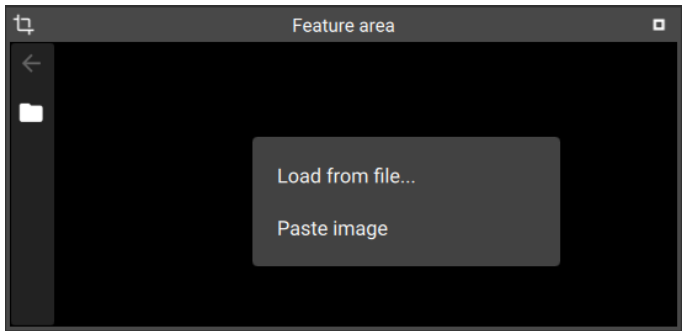
There are three ways to select an image for Feature Search:

- 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



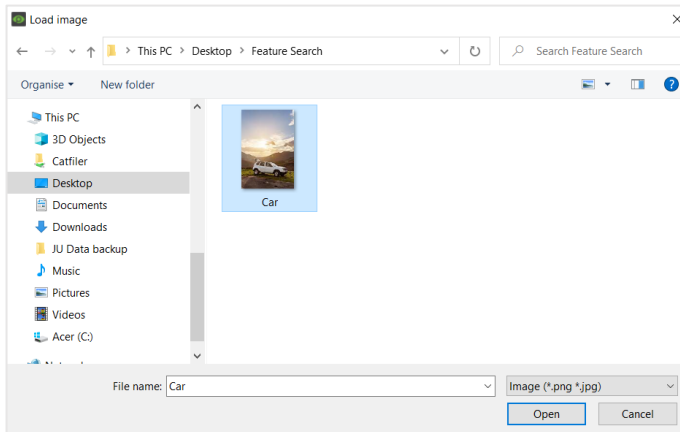
→ Click either **folder icon**.



→ Alternatively, **right-click** the feature area.

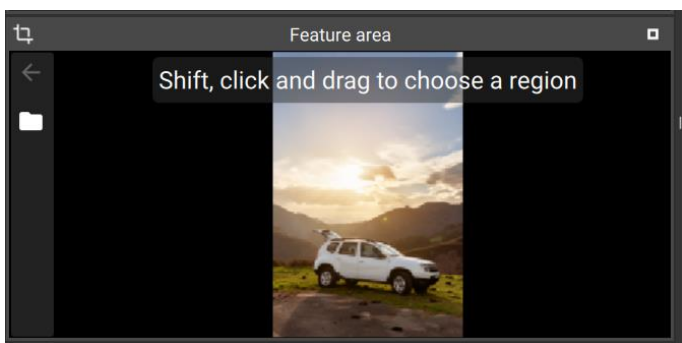
From the menu that appears:

- 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 [Feature Area](#).

9.2.2 Find Image Using Thumbnail

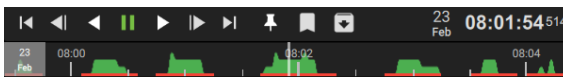
Use the **Review** panel to search for a reference image.



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."



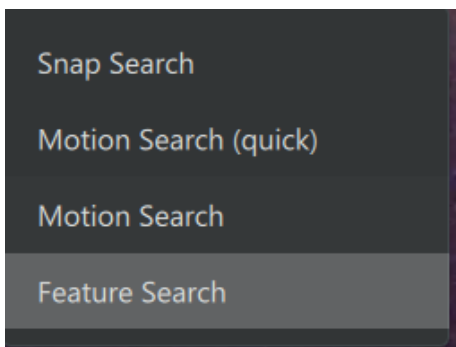
To expand the Review area, click the white square in the right corner of the frame.



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](#).

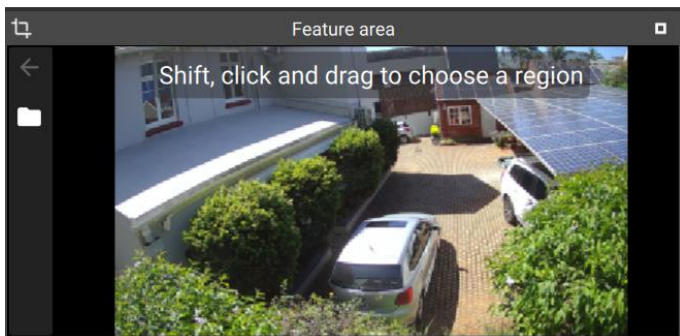
9.2.3 Use Image from Monitoring Tab



→ In the Monitoring Tab, right-click on a camera feed.

→ Select **Smart search >> Feature search** from the context menu.

This will send an image to a Feature Search tab.

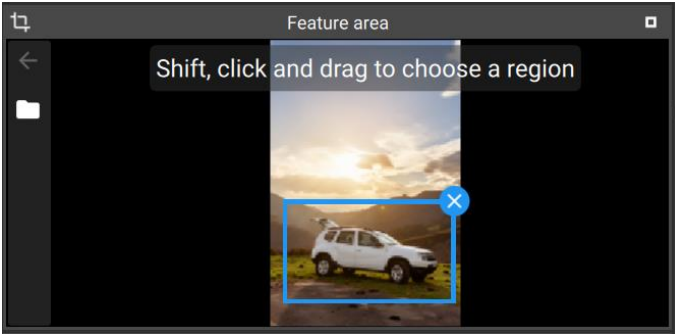


The image will appear in the Feature area.

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.

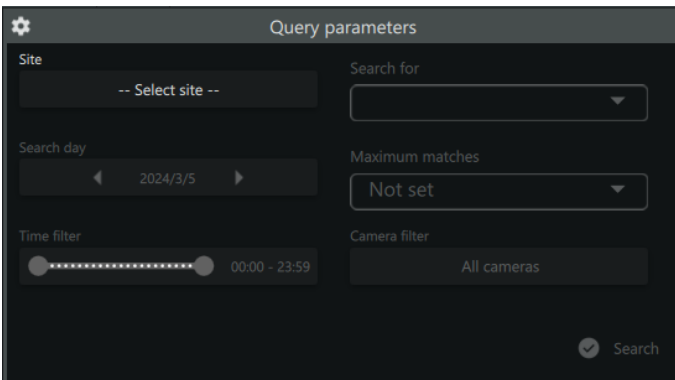


→ To select the specific area on the image, **Shift + click and drag**.

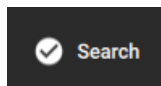
Then complete the search using the Query parameters (9.4).

9.4 Query Parameters

Click the fields to open menus.



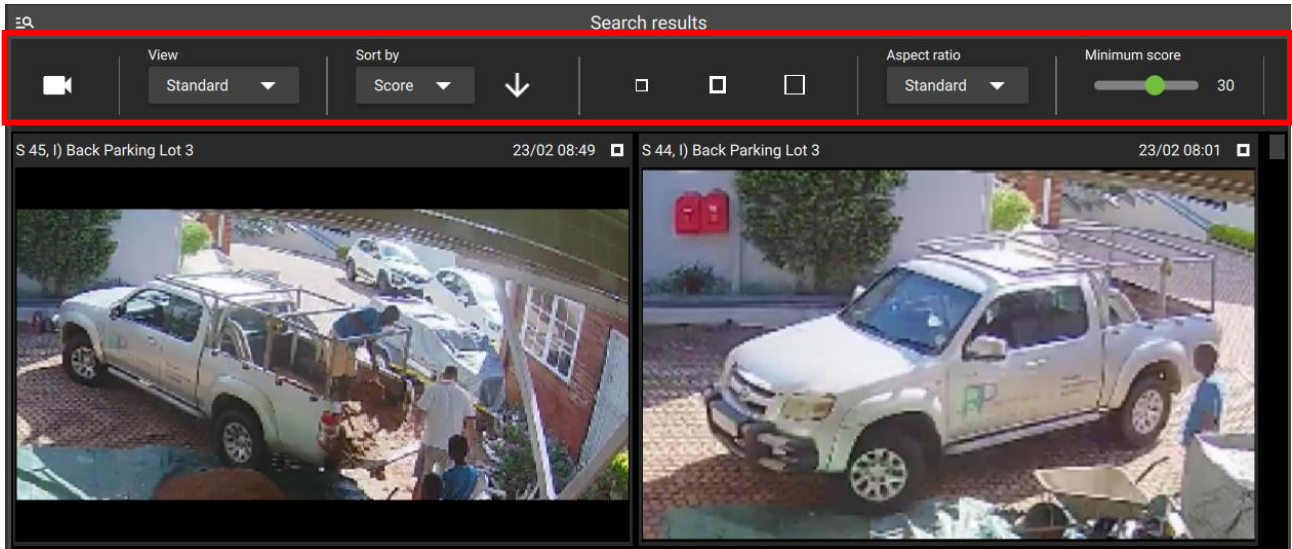
Site	Click the Site field and choose a site from the pop-up that opens.
Search for	Select Vehicle or Person .
Search day	Use the arrows to search next or previous day. Or, click the date to open a calendar.
Maximum matches	Choose between 10–1000 Maximum matches .
Time filter	Use the slider to narrow 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.

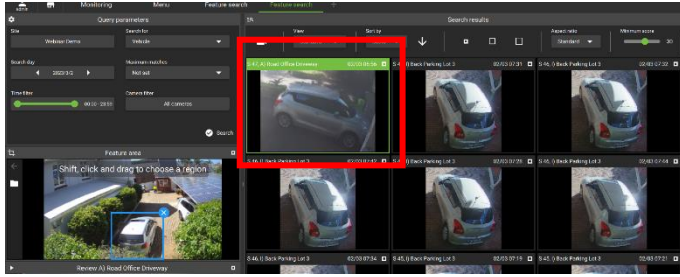


Use the search tools to refine the results.

	<p>Click the camera icon to narrow down results by camera.</p>
<p>View</p> <p>Standard ▾</p>	<p>Choose between:</p> <ul style="list-style-type: none"> - Standard view - View By camera.
<p>Sort by</p> <p>Score ▾</p>	<p>Choose between viewing by Score or Time.</p> <p>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</p> <p>Standard ▾</p>	<p>Adjust aspect ratio. Choose between Standard, Tall, or Wide.</p>
<p>Minimum score</p> <p>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.



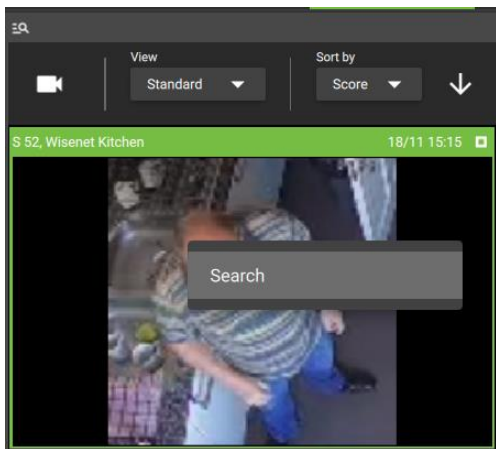
To expand the Review area, click the white square in the right corner of the frame.



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.

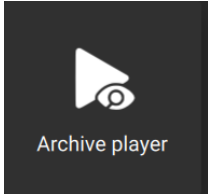
A menu will open.

→ **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](#).



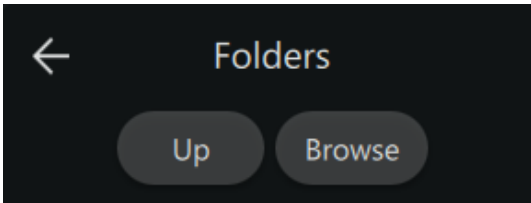
From the home menu, click the **Archive player** icon to open a new Archive player tab.

10.1 File Interface

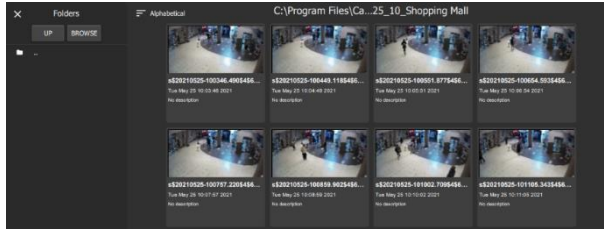
When the Archive Player opens, the file interface will be displayed. Here, files may be browsed in search of CathesisVision archives to review.

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	File browsing buttons:  <p>Click Up to open the parent folder of the currently selected location.</p> <p>Click Browse to open a file browse window.</p>
3	Folders List. This area will list the folders in the current location. Click a folder to open it.

4 Archive file display. If there are any archive files in the current selection, they will be displayed here.



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.



Clicking the two dots next to the file icon will open the parent folder of the currently selected location.

10.1.1 Review Archive

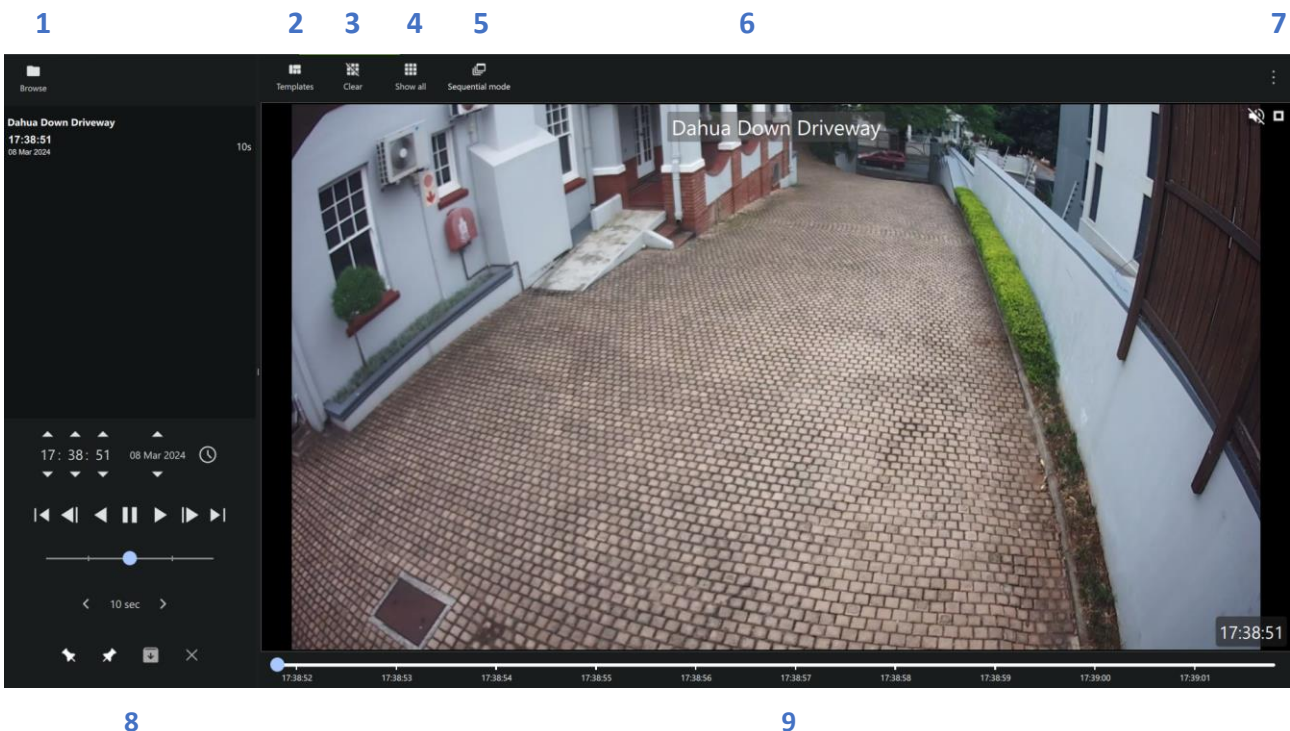
To review, click on a specific archive in the archive file display area. The interface will then switch to Review.



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

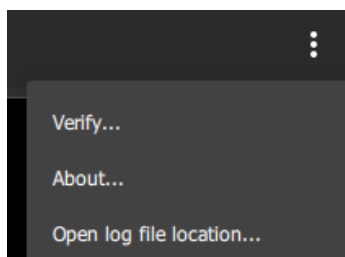
The numbers (1-9) in the image correspond to description/instructions in the tables below.



Area	Description
1	Switch interface
2	Change template
3	Clear all cameras
4	Show all cameras
5	Toggle sequential mode
6	Archive file name
7	More options
8	Timeline and review control
9	Review area

1	→ When in the review interface, click the folder icon /button to switch to the browsing interface.
2	<p>→ Click the Templates button to open the templates panel. The review layout of archived video is managed in the templates panel.</p> <p>→ 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.</p> <p>→ Scroll through the list by clicking the arrows at the top and bottom of the panel, or use the mouse wheel.</p> <p>→ Click 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.</p> <p>→ To close the list, click the X in the top-right of the panel.</p>
3	→ Click this icon to clear all cameras. The camera panel/s will go blank.
4	→ 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.
5	<p>→ Click this icon to toggle in and out of sequential mode.</p> <p>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.</p> <p>Note: Tagging and exporting are disabled in sequential mode.</p>
6	Camera name
8	Timeline & review control. See Timeline and Review Control .
9	Review area. See Review Panel .

10.2.1 More Options



→ Click **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](#)

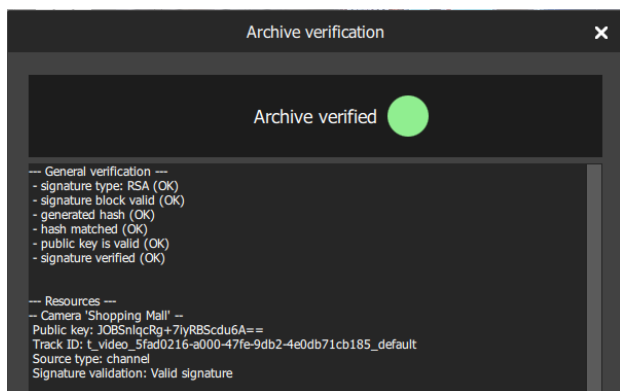
10.2.1.1 Verify

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.

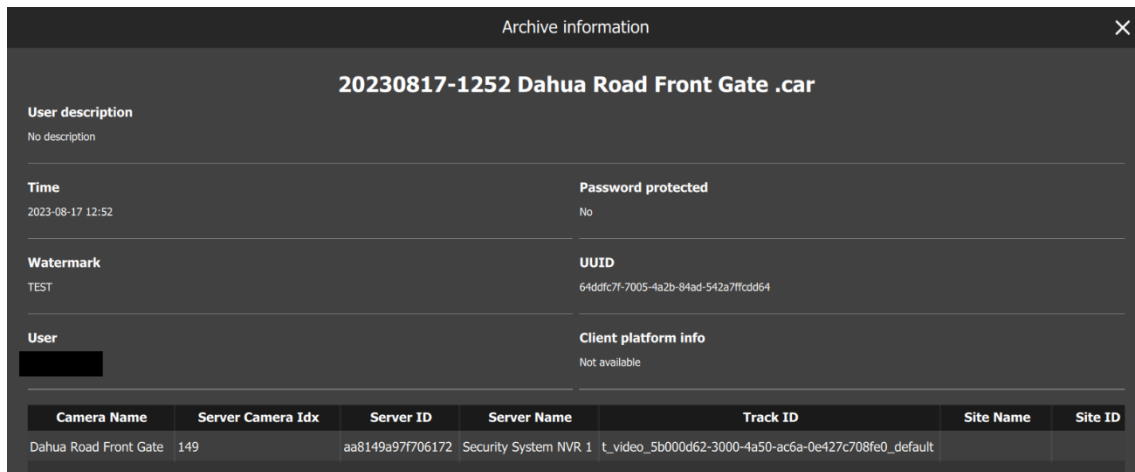
In the case of archives with multiple cameras, the camera resources are listed along with the verified information for each camera.

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.

10.2.1.2 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.

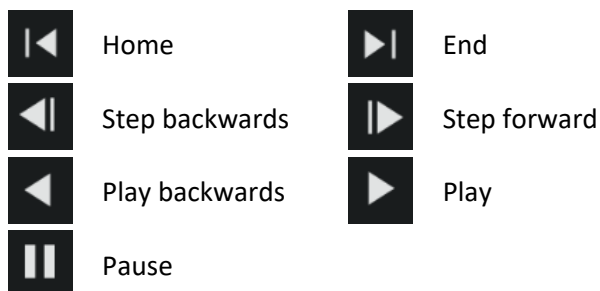
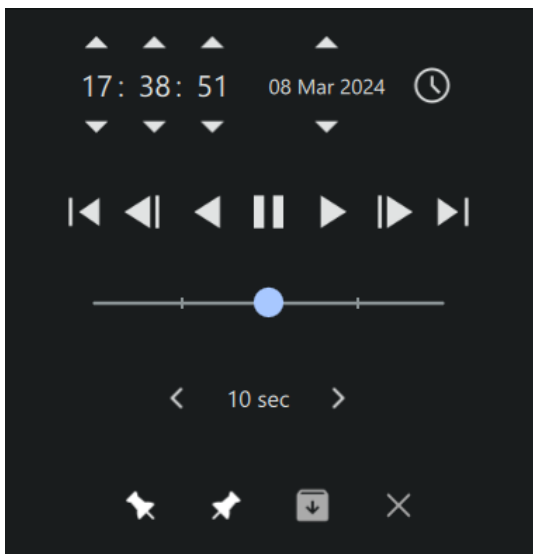
Some of the information listed includes the ID of the camera on the server, the ID and name of the recording server, and the ID and name of the site.

10.2.1.3 Open Log File Location

→ Click **Open log file location** to open the folder containing the application log file in an Explorer window.

10.2.2 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.



10.2.2.1 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.

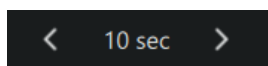
Option 2

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.



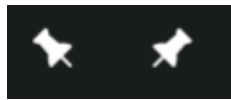
The further **left** the slider is dragged, the faster the video will rewind. The further **right** the slider is dragged, the faster the video will fast-forward.

10.2.2.2 Go Back/Ahead

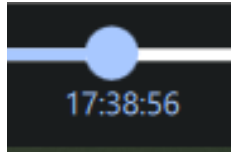


Click the left/right arrows to go back/ahead in video by ten seconds.

10.2.8.3 Start/End Tags



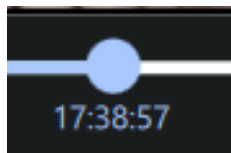
These tags are used to select periods of the video to archive into archive or media files. To select portions for archive/export:



→ Click and drag the blue dot on the timeline to set desired beginning point of the video portion to be archived or exported.



→ Click the left/start tag. It will turn green.



→ Drag the blue dot to the desired end point of the selection.

→ Click the right/end tag. The selected video portion will be highlighted in green on the timeline.



→ Click the right/end tag. The tag icon will turn green and the selected video portion will be highlighted in green on the timeline.



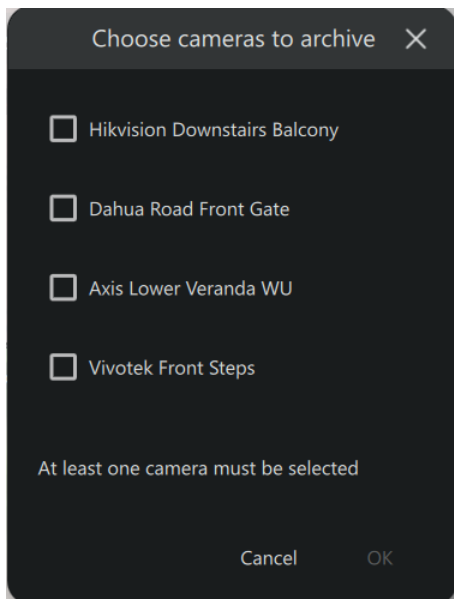
The **Create archive** and **Erase tags** icon will turn red when a selection has been made.

Note: Tagging and exporting is disabled in sequential mode.

10.2.2.4 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.

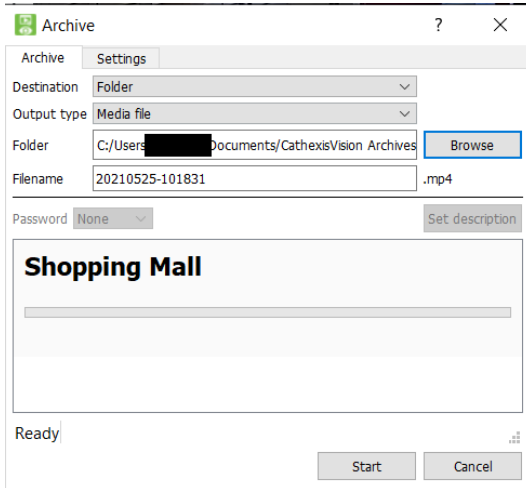


If archiving/exporting an archive that has multiple cameras, the user will be prompted to select the camera/s to archive before the archiving window opens. At least one camera must be selected in order to proceed.

Note: Exporting to media (MP4) file will not be available if more than one camera is selected for archive.

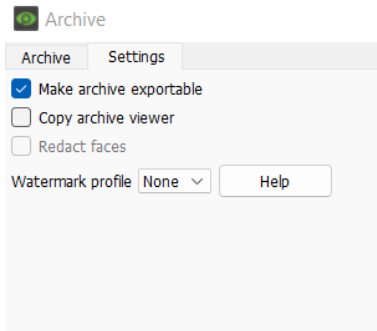
Once the camera/s for archive have been selected (if applicable), the video is ready to be archived. There are two applicable tabs: Archive and Settings.

Archive Tab

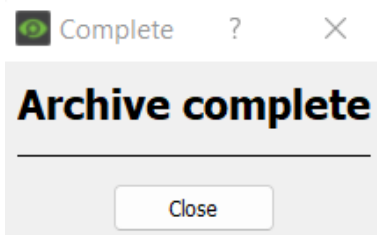


- Set the archive **Destination**.
- Select the **Output Type**.
- Note:** The media file (MP4) option is not available if more than one camera has been selected in the case of multiple-camera archives.
- Select the **output Folder**. (Only applicable when Folder destination is selected.)
- Set the **filename**.
- 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 **CathexisVision / 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.

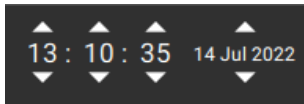
10.2.2.5 Cancel Period Selection



→ Click this icon to cancel the selection of video for archiving.

10.2.2.6 Date and Time Panel

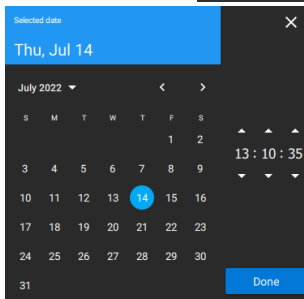
There are two ways to select the date and time to review on the Timeline and Review Control.



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.

10.2.2.7 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.

10.2.3 Review Panel

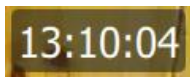
The review panel is the area where archived video is viewed. Depending on the template chosen, and the number of archived cameras, the review area may display one or multiple camera panels.

- To drag cameras from the cameras list onto the review area, left-click a camera and drag it to the desired panel.
- 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.

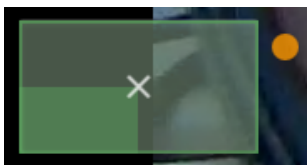
Note: If multiple cameras are dragged onto review area, they will only be shown if a review template with enough panels has been selected. To show all listed cameras and automatically adjust number of panels, rather use the **Show all Cameras** button.



The name of the archived camera is displayed over the video at the top of the camera panel.



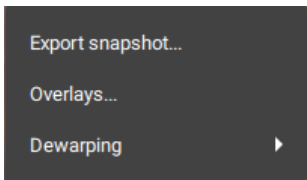
The time in the video is displayed at the bottom right corner of the camera panel.



→ 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.



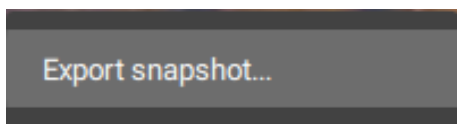
An orange dot appears on the point of focus for the zoom.



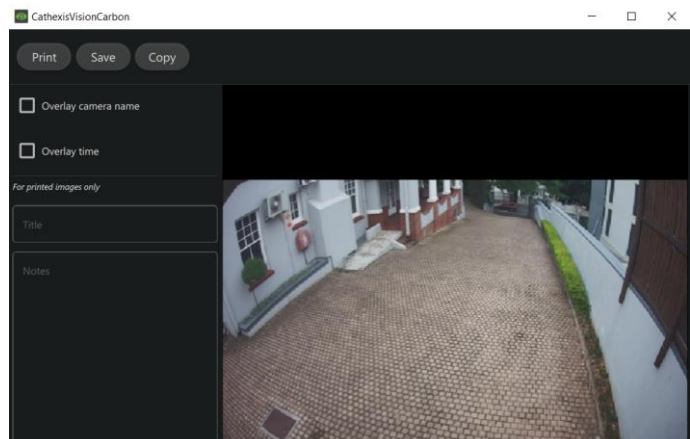
→ Right-click anywhere in the review area to configure these options from the context menu:

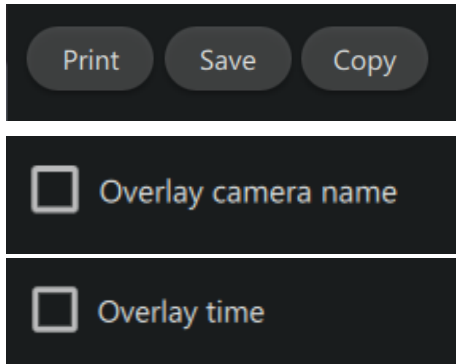
- [Export snapshot](#)
- [Overlays](#)
- [Dewarping](#)

10.2.9.1 Export Snapshot



→ Click **Export snapshot** from the context menu. This opens the Export snapshot window.

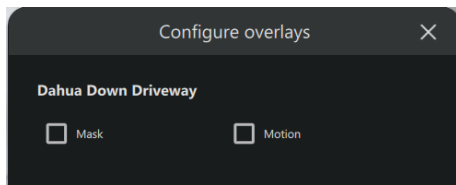




- Click the options at the top left corner to **Print/Save/Copy** the snapshot. **Note:** The snapshot will be copied to the clipboard.
- Select **Overlay camera name** to overlay the camera name on the snapshot.
- Select **Overlay time** to overlay the time on the snapshot.

For printed snapshots only: Give the snapshot a title and description to be printed along with the image.

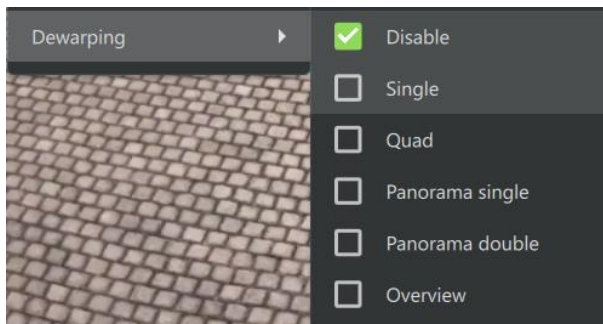
10.2.9.2 Overlays



- 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.
- Click **OK**.

10.2.9.3 Dewarping

Select Dewarping from the context menu to see options.

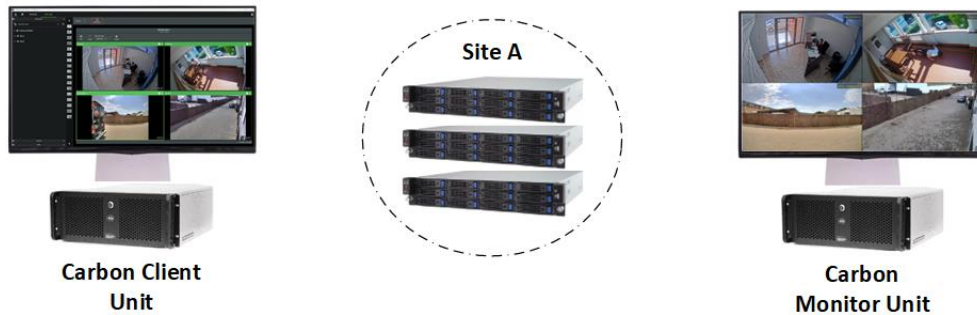


- Check the relevant box to select the desired dewarping option.
- Use the **dewarping** tools to transform a fisheye camera into a flat view, or, select **Disable** to see the full fisheye (circular) view.

11. Video Walls Tab

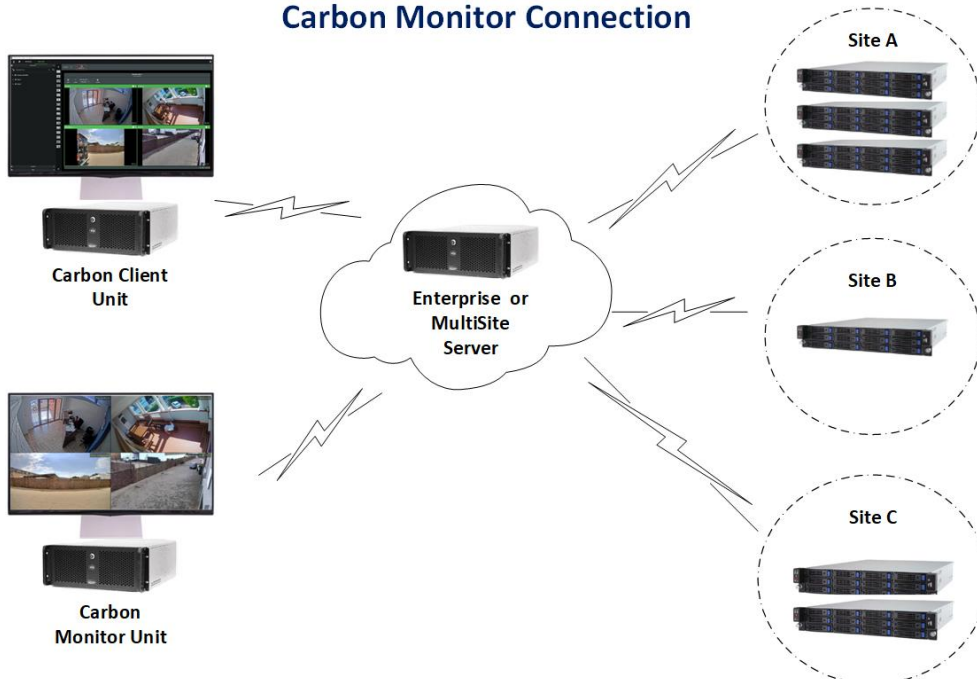
Monitors and video walls may be configured in the Video Walls tab. The single site monitor environment and the Enterprise/MultiSite monitor environment are explained below.

Single Site Carbon Monitor Connection



The single site connection is when the Carbon client makes a direct site connection to a single site. The Carbon client can only control the Carbon monitors for the connected site.

Enterprise or Multisite Carbon Monitor Connection



The **Multisite** monitor setup provides central monitor access and allows for the streaming of all site cameras based on the user's camera and site access user permissions. The **Enterprise** monitor setup allows for the creation and access to monitors at all levels of the Enterprise. It allows for monitors in the control room at the root domain, monitors for specific domains and sub-domains overlooking sites that form part of the domains/Sub domains. It also allows for monitors to be created for specific sites.

To add and set up a monitor, follow these steps. If the monitor has already been added, jump to Step 4.

Step	Where
1. Add the monitor as a resource and copy the token (11.1.1 for a single site connection or 11.1.2 for MultiSite/Enterprise).	Configuration tab (Carbon)
2. Add the token and create a new monitor. (11.2)	CathexisVision Carbon Monitor desktop app
3. Set monitor permissions (11.3).	Configuration tab (Carbon)
4. Configure the new monitor (11.4).	Video Walls tab (Carbon)

To add and configure a Video Wall, follow the steps outlined in [11.5](#).

11.1 Add a Monitor



When a monitor is added, a user needs to be set for the monitor ([11.1.1.2](#)) to determine what resources that monitor can access. Then, the administrator needs to set permissions for the users who will view or control that monitor ([11.3](#)).

11.1.1 New Monitor (Single Site Connection)

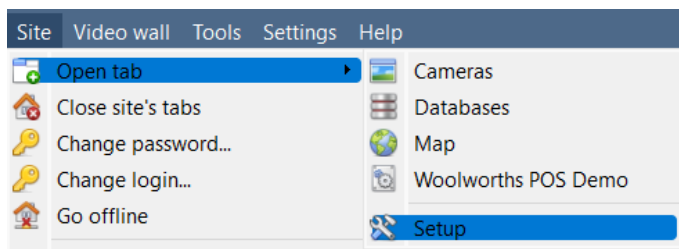
Note: CathexisVision 2024+ is required to set up a Carbon Site monitor.

To set up a new monitor for a single site connection, follow this sequence:

1. Set up the site monitor in CathexisVision.
2. Set up the Site Monitor desktop application.
3. Control the site monitor from Carbon.

11.1.1.1 Set up Monitor in CathexisVision

Open CathexisVision server software.



1. Follow the file path shown on the left (**Site / Open tab / Setup**).



2. Select the **Configuration icon**.

- > Security System NVR 1 (MASTER)
- > Security System NVR 2

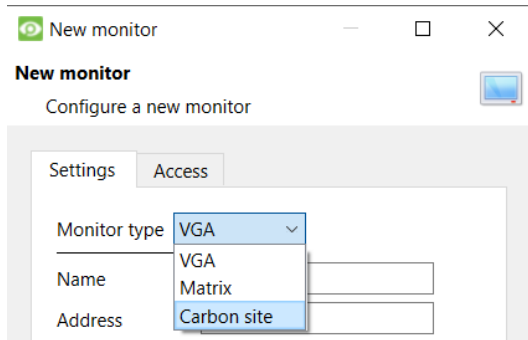
3. Choose a server from the list.

Monitors

4. Select **Monitors** from the list.

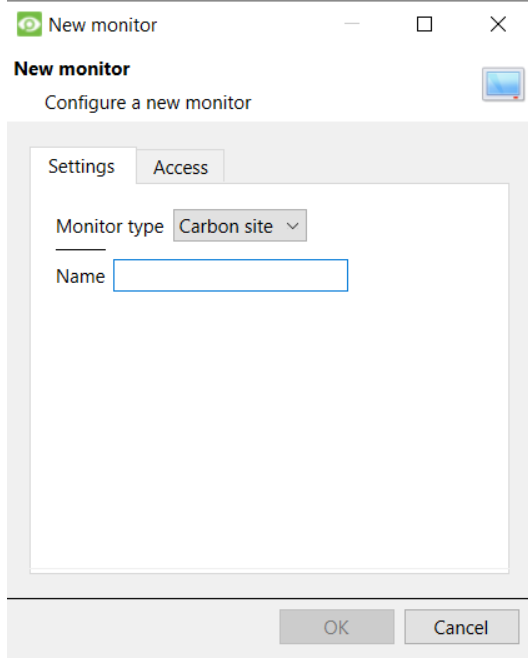
New

5. Select **New**.



6. In the new window, click the drop-down menu next to **Monitor type**.

7. Select **Carbon site**.

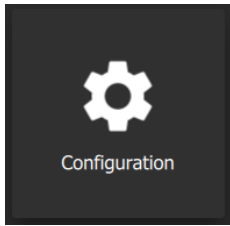


8. Enter a **name**.

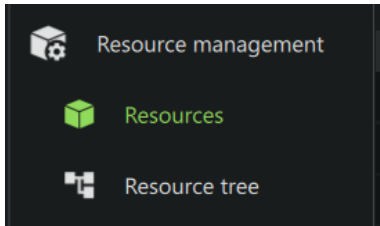
9. Click **OK**.

11.1.1.2 Set up Monitor in Carbon Configuration Tab

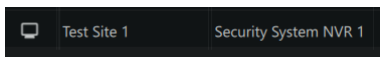
Return to CathexisVision Carbon.



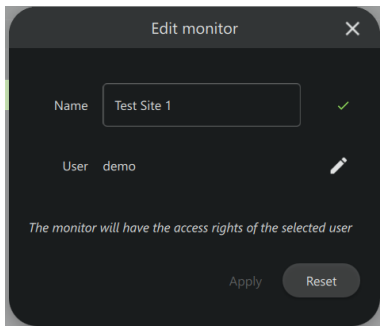
→ Open the Configuration tab.




→ Select **Resources**.

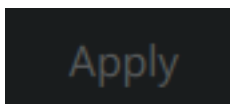


→ Select the monitor from the list of resources. (Note: Having added the new monitor to the site in CathexisVision, it will show up in Carbon.)

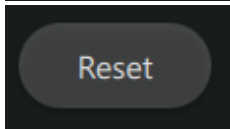


→ It is necessary to set a user for the new monitor. To set a user for the monitor, click anywhere in the User field, or click the edit icon.

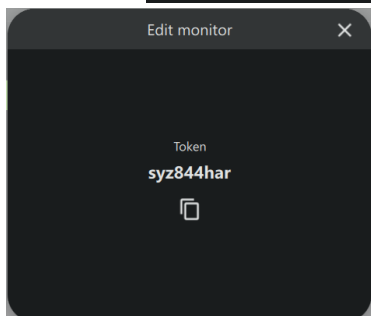
 The user set for the monitor will determine the permissions the monitor will use. The monitor will only be able to display resources that are available with that user's permissions.



→ Click **Apply**.



→ Then click **Reset**. The **Edit monitor** window will open and the token will be displayed.



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

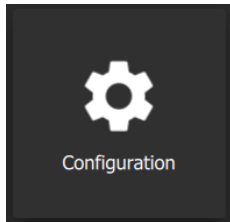
The token must be added to the CathexisVision Carbon Monitor desktop app ([11.2](#)).

11.1.2 New Monitor (Enterprise or MultiSite)

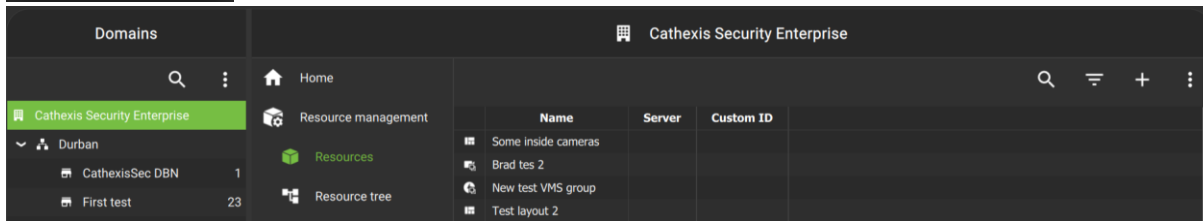


When a monitor is added, a user needs to be set for the monitor ([11.1.2.1](#)) to determine what resources that monitor can access. Then, the administrator needs to set permissions for the users that might need to view or control that monitor ([11.3](#)).

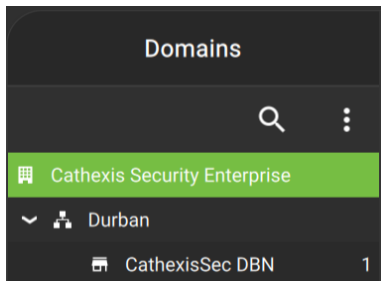
11.1.2.1 Carbon Configuration Tab: Add Monitor as a Resource



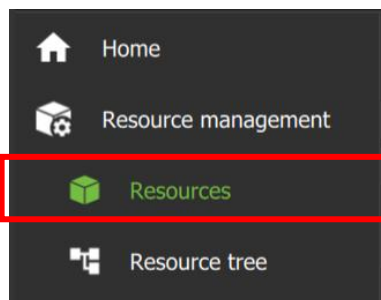
→ Open the Configuration tab.



A monitor can be added to the **root domain** or a **sub-domain**.



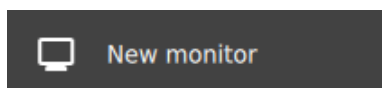
→ **Select the domain** to which the monitor will be added. In this example, the root domain has been selected.



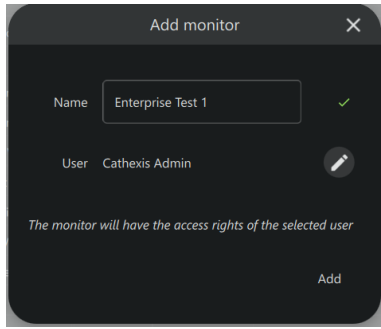
→ Select **Resources** in the middle panel menu.



→ In the configuration panel, click the **menu icon**. Alternatively, click the **plus icon**.



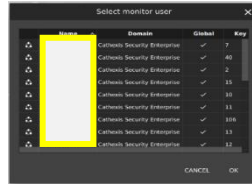
→ Select **New monitor**.
The **Add monitor** window will open.



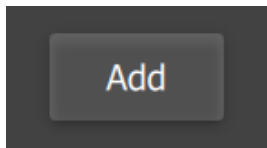
- Enter the name of the monitor.
- To set a user for the monitor, click anywhere in the User field, or click the edit icon.

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.

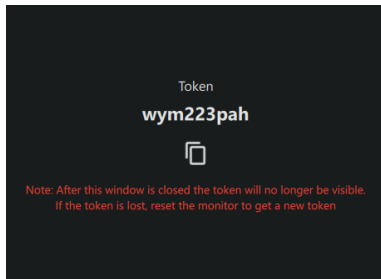
For example: A retail manager might want a monitor on the shop floor that is visible to the public. In this case, they could set up a user for the monitor that is only able to stream cameras on the shop floor, not office cameras.



- Select the user and then click **OK**. (**Note:** In the example, user names are redacted.)



- Click **Add**.
The token will be displayed.



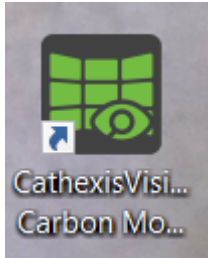
- Click the **copy icon** to copy the unique token.

The token must be added to the CathexisVision Carbon Monitor desktop app ([11.2](#)).

11.2 Create New Monitor in CathexisVision Carbon Monitor Desktop App



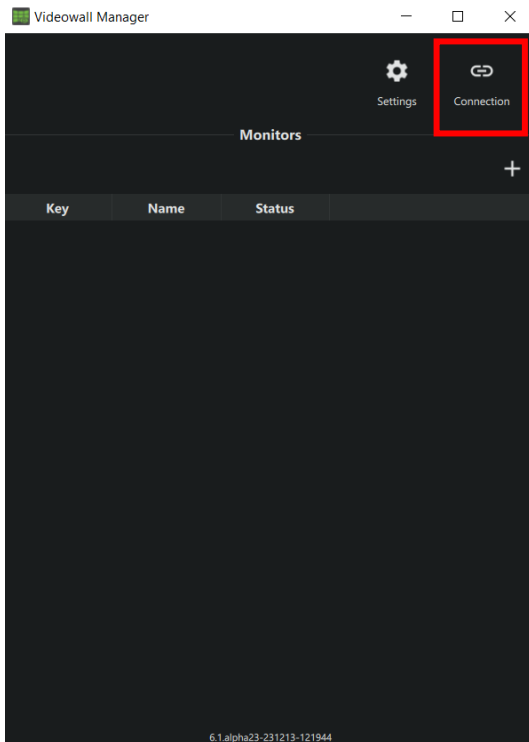
The **CathexisVision Carbon Monitor** (also known as the Video Wall Manager) is a separate desktop application.



→ Double-click the **CathexisVision Carbon Monitor** desktop icon.

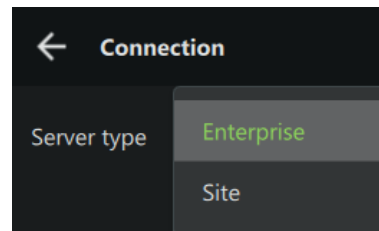


The icon in the taskbar indicates that the CathexisVision Carbon Monitor app is open. (**Note:** Click this icon in the taskbar to return to the Videowall Manager at any time.)

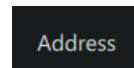


→ Select **Connection**.

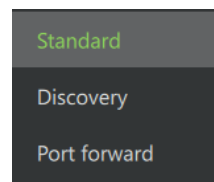
→ Select the server type (Enterprise or Site).



→ Enter the server's address.

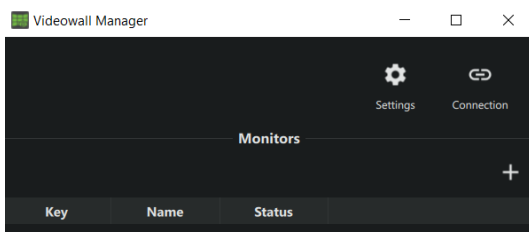


→ Site connections only: Select the connection type.

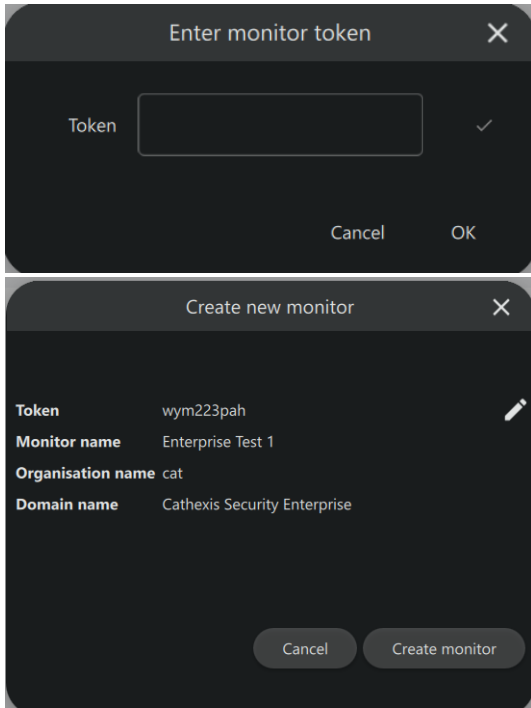


→ Once the address has been entered, click **Save**.

→ Click the plus icon. **New monitor**.



The "Create new monitor" window will open.



First, a prompt for the monitor token will appear.

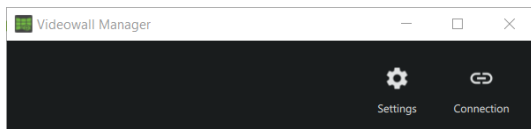
- Paste the monitor token in the field.
- Click **OK**.

In the “Create new monitor” window, the other fields will fill automatically once the token has been added.

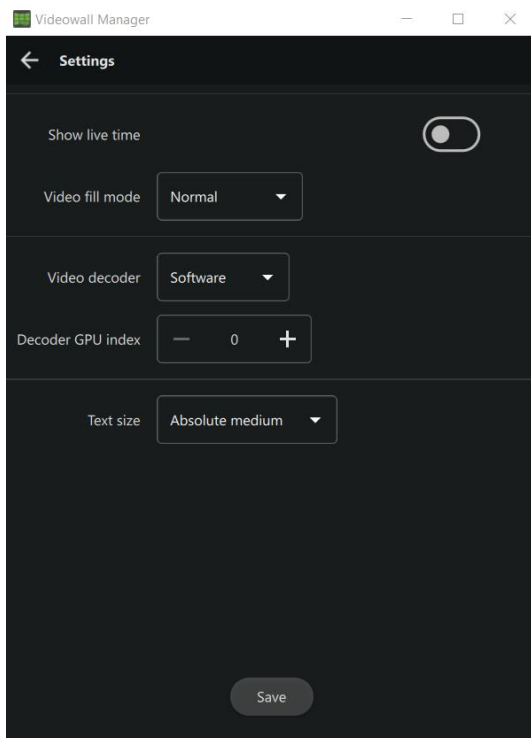
- Click **Create monitor**. The new monitor will open, ready to be configured in Carbon.

11.2.1 Carbon Monitor Desktop App: Settings

11.2.1.1 Default Settings

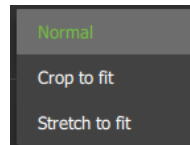


- To configure the default (global) monitor settings, click **Settings**.



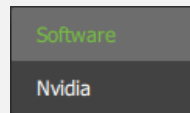
Show live time Toggle this option to show the live time on the monitor.

Video fill mode Choose from the following video fill modes:



- Normal
- Crop to fit
- Stretch to fit

Video decoder Select a video decoder:

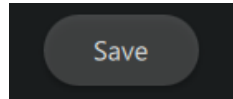


- Software (CathexisVision)
- Nvidia

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.

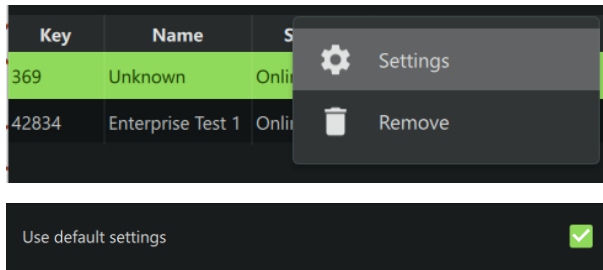
Text size	Select one of the text sizes:
Absolute small	- Absolute small
Absolute medium	- Absolute medium
Absolute large	- Absolute large
Relative small	- Relative small
Relative medium	- Relative medium
Relative large	- Relative large



→ Once the settings have been entered, click **Save**.

11.2.1.2 Individual Monitor Settings

Note: Each monitor can be configured individually to override the default monitor settings.



→ To change a monitor’s settings, right-click the monitor name.

→ Click **Settings**.

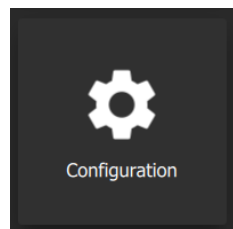
→ To configure the settings for the selected monitor, de-select “Use default settings”.

→ Then select the desired settings for the selected monitor.

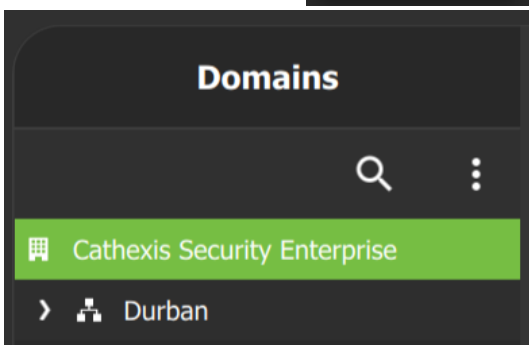
Once the new monitor has been added and settings selected, configure it in Carbon ([11.3](#) and [11.4](#)).

11.3 Set User Permissions in Carbon

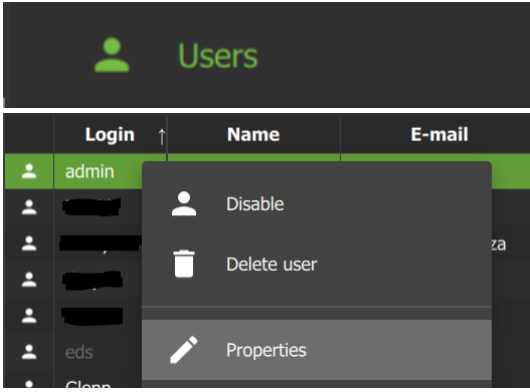
Return to Carbon to set permissions for user/s who will view or control the new monitor.



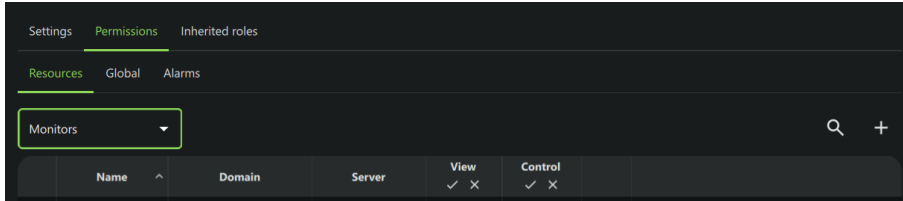
→ From the home menu, click **Configuration** to open a new tab.



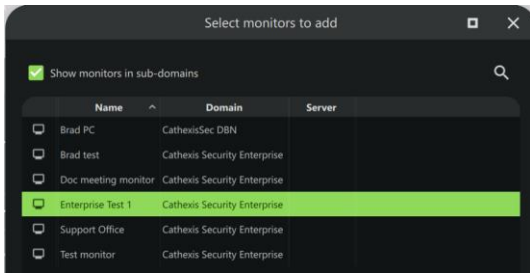
→ Select the domain to which the new monitor has been added.



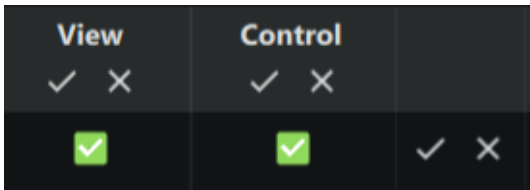
- In the menu panel, click **Users**.
- In the configuration panel, right-click the User to which the new monitor has been assigned.
- Select **Properties**.
The User configuration window will open.



- 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.



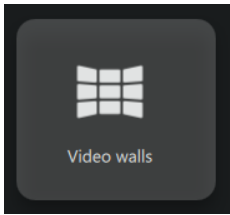
To select all permissions, click the **tick icon**.



To clear all permissions, click the **cross icon**.

After setting the monitor permissions, configure the new monitor in the Video Walls tab ([11.4](#)).

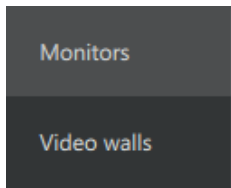
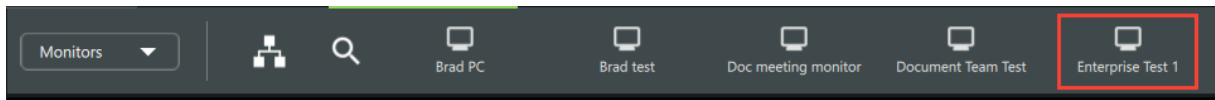
11.4 Control Monitor in Video Walls Tab



→ From the Carbon home menu, click **Video Walls** to open a new tab.

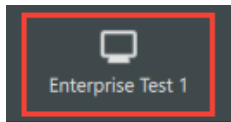
- Once **adjacent cameras** are configured on a site, this feature can be used in the Video Walls tab.
- For panels with PTZ cameras, a **PTZ control tool** is available. A menu will appear on the sidebar.
- Panels can be **maximised or restored** by double-clicking.

11.4.1 View Options



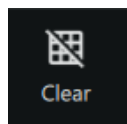
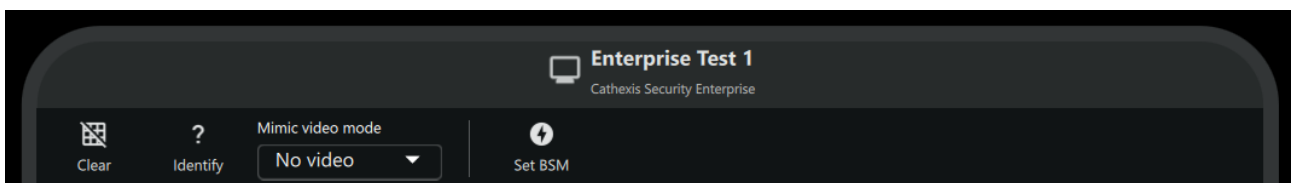
→ Use the drop-down menu to choose between viewing Monitors or Video Walls.

Select **Monitors**.

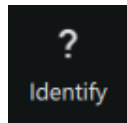


→ Click an available option to select a monitor view.

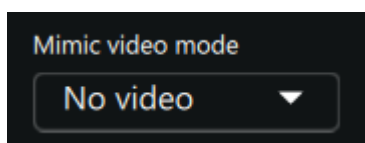
11.4.2 Options: Basic Live Streaming Control



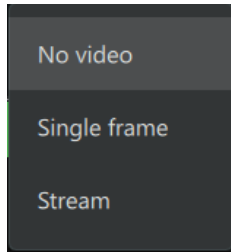
→ Click the **Clear** tool to remove cameras from the panel.



→ 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 Video Walls tab can be **maximised or restored** by double-clicking.

11.4.3 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.

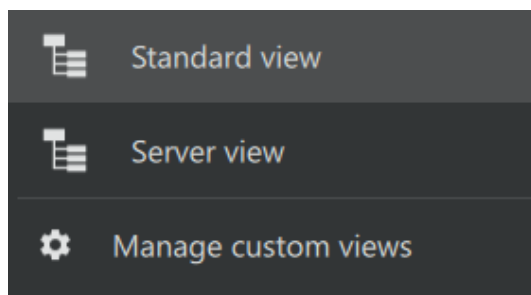
11.4.3.1 Change Template



Click a template to select it.

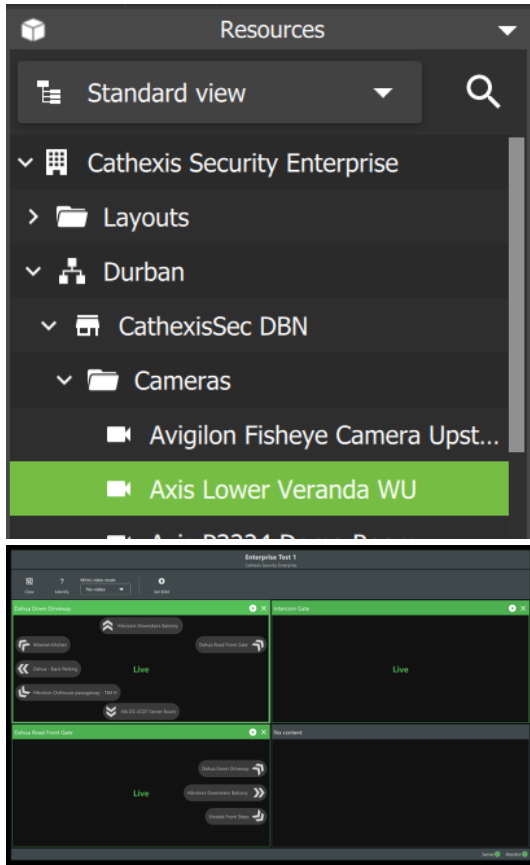
11.4.3.2 Add or Change Cameras (Resources)

Add or change video feeds.



→ Click the **drop-down menu** within the Resources panel to see view options.

→ **Click an option** to select.

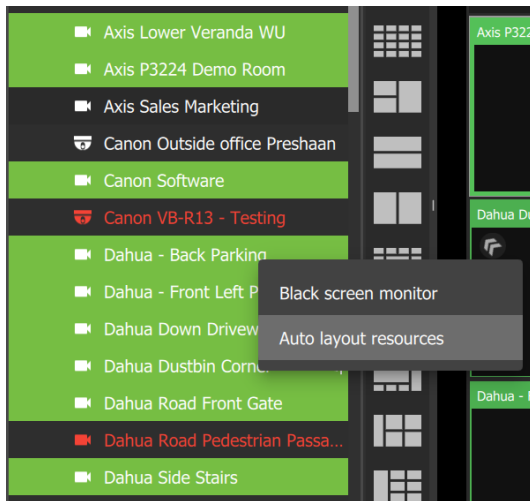


→ **Drag and drop** into the main section to place individual cameras.

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.

11.4.3.3 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.**

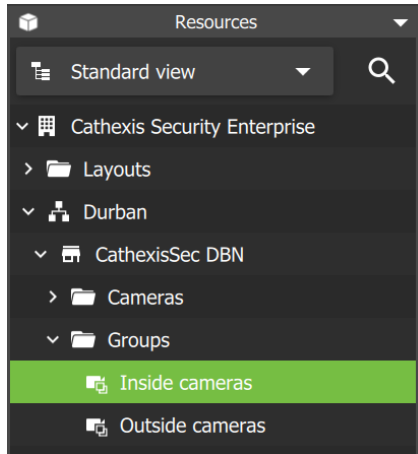
The cameras will be arranged in the main panel automatically.

11.4.3.4 Open a Camera Group

Camera groups can be created in the Resources section of the **Configuration tab**.



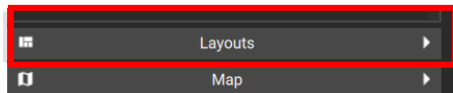
Camera groups are indicated by this icon.



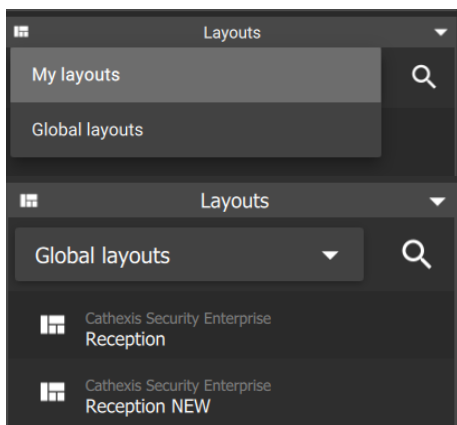
- Navigate to the **Resources menu** in the side panel.
- **Click the camera group** to select the camera group.
- Drag and drop into the main panel, or, right-click and select **Auto layout resources**.

11.4.3.5 Open a Saved Layout

Layouts that have been created in the **Monitoring tab** can be selected and opened in the **Video Walls tab**.



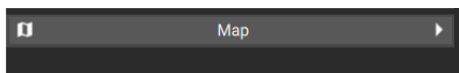
- **Click on "Layouts"** on the bottom left of the Video Walls tab. This will open the drawer.



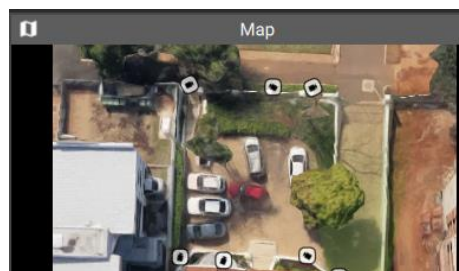
- Click the **drop-down**.
- Choose from "My layouts" or "Global layouts".
- **Double-click** a saved layout to open in the monitor.

The selected layout will populate the panels.

11.4.3.6 Open a Saved Map



- **Click on "Map"** to open the drawer. Available maps will appear in the panel below it.



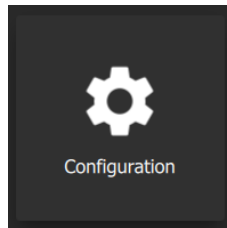
- Identify a camera using the map. **Click and hold** the camera icon.
- **Drag and drop** into an available panel.

11.5 Manage Video Walls

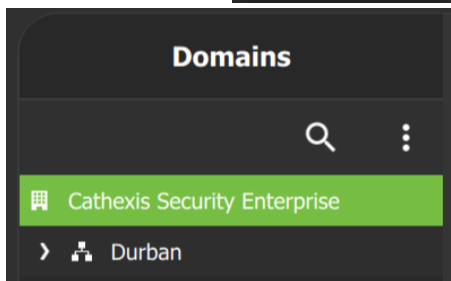
The Video Wall represents the arrangement of physical monitors.

11.5.1 Create Video Wall

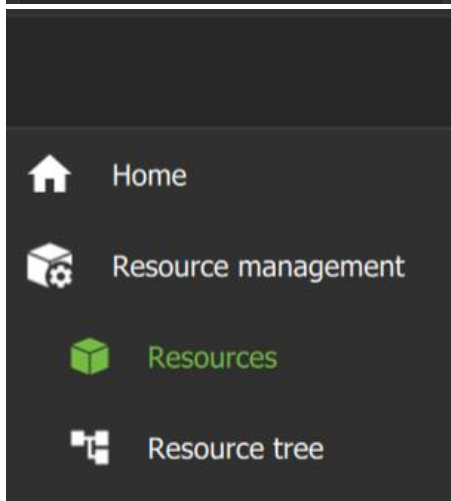
New video walls can be created in the Configuration tab.



→ From the home menu, click **Configuration** to open a new tab.



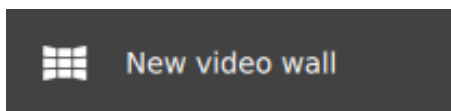
→ If applicable, select a domain in the Domains panel.



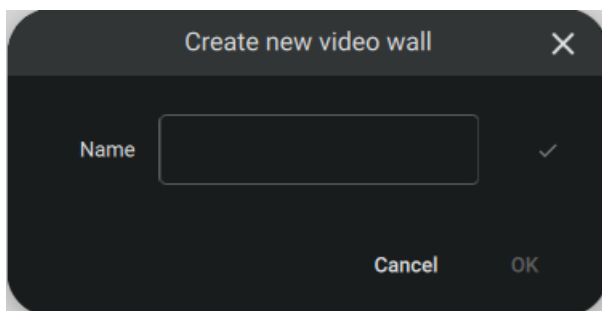
→ Select **Resources** in the menu panel.



→ Click the plus icon.

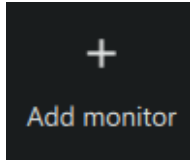


→ Select **New video wall**.

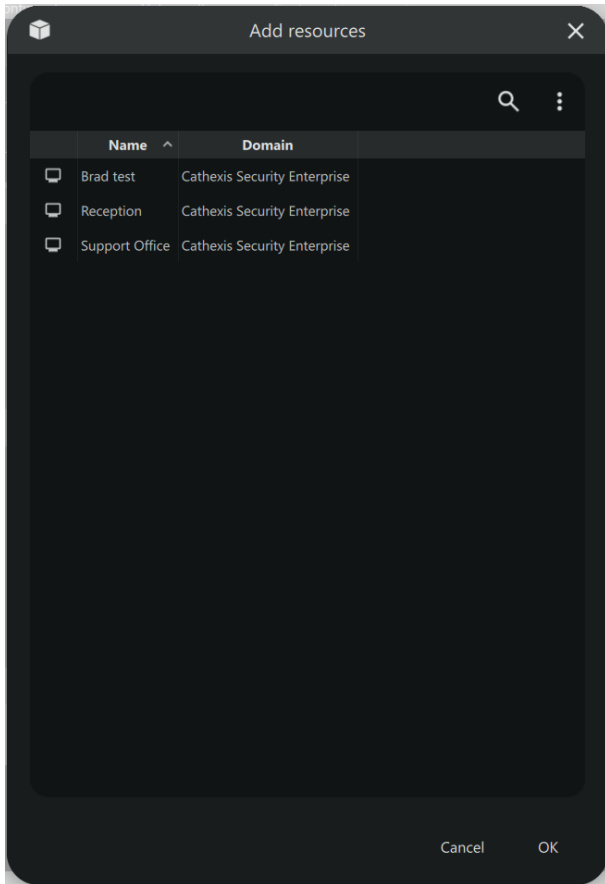


→ Enter a name for the new video wall.

→ Click OK.

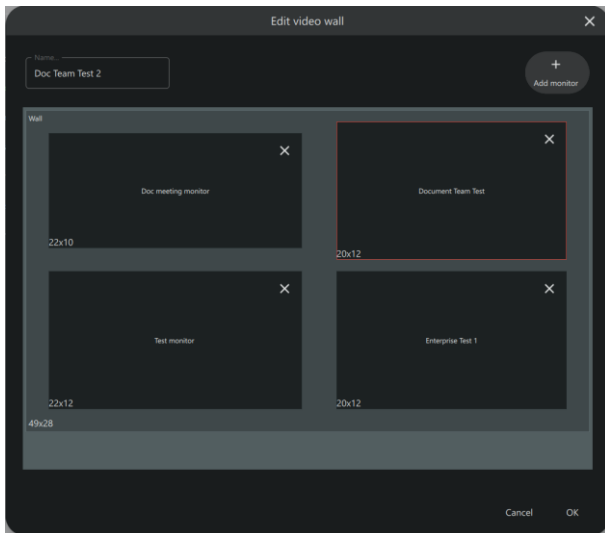


→ Click **Add monitor** in the **Create new video wall** dialog.



→ Ctrl+click or shift+click to select multiple resources.

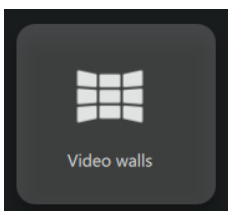
→ Click OK. The added resources will appear in the Video Wall editor.



→ 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.

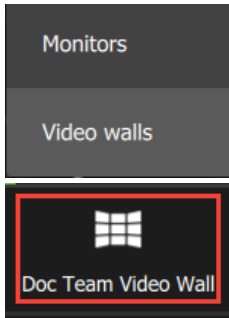


→ To view the additional video wall, return to the Video Walls tab.

The new video wall will appear in the top panel.

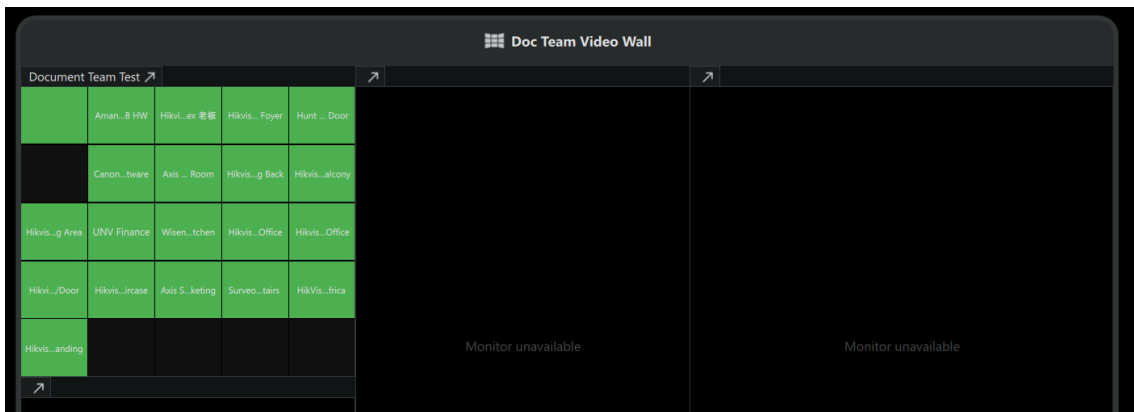
11.5.2 View Video Wall

Once a video wall has been created in the Configuration tab, it can be viewed in the main panel of the Video Walls tab.



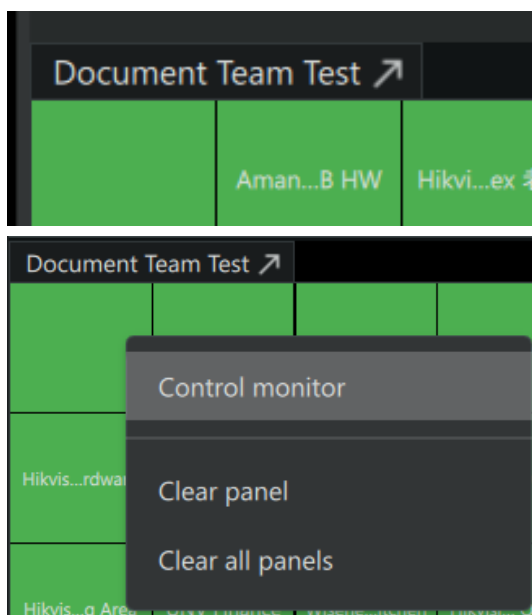
- Click the **drop-down** menu near the top of the tab.
- Select **Video Walls**.
- Select a wall by clicking the icon that represents it.

The wall will show in the main panel. Cameras on this virtual representation will display as text.



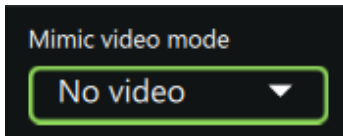
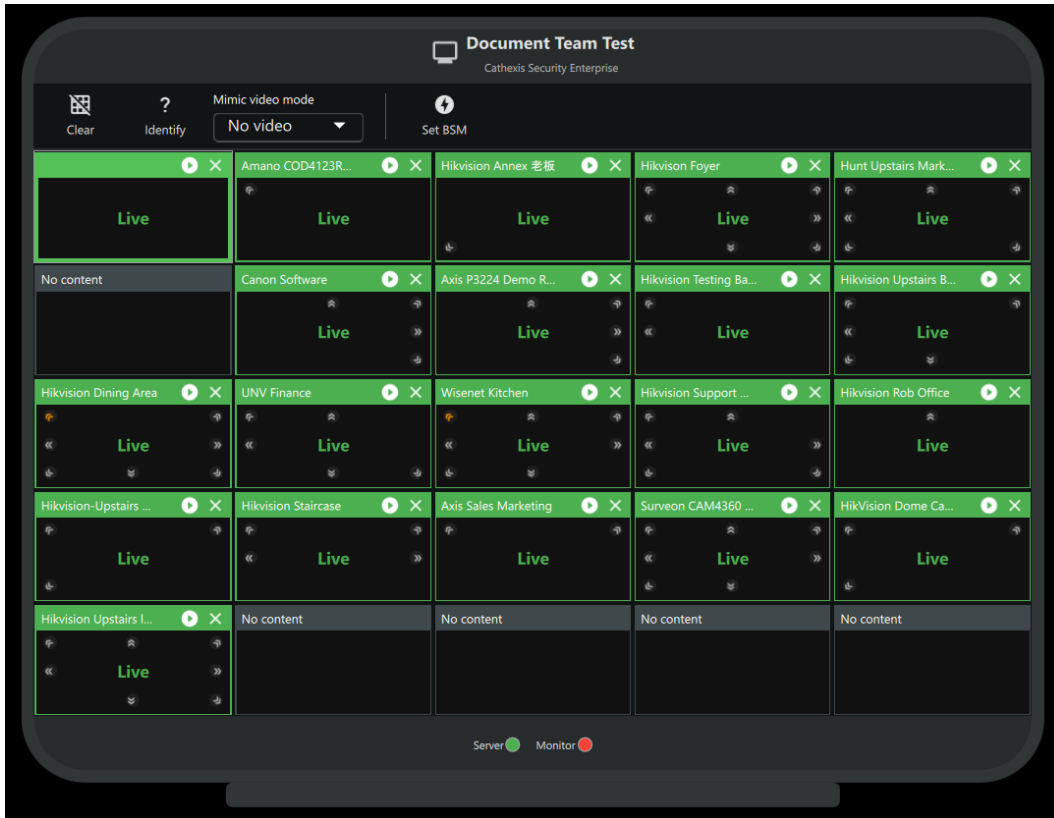
11.5.2.1 View Cameras: Quick Access to Single Monitor Control

It is possible to view the video feed of a single monitor.

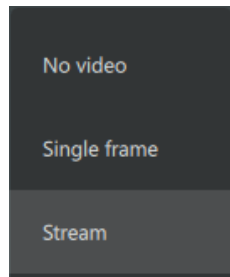


- Click the **label**.
- This will open quick access to the single monitor control without exiting wall mode.
- Alternatively, right-click the monitor and select **Control monitor**.

The layout will open in the main panel.



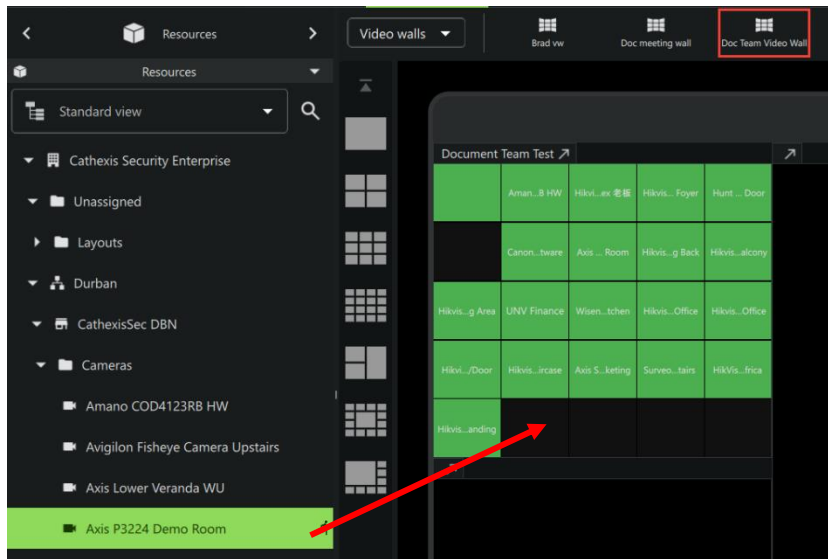
→ Click the mode field to show the drop-down. Select **Stream** to make the video visible.



→ Press the **cancel icon** in the top-right corner to return to the main video wall screen in the Carbon Video Walls tab.

11.5.3 Control/Edit Monitor from Video Wall

11.5.3.1 Add or Change a Monitor Camera



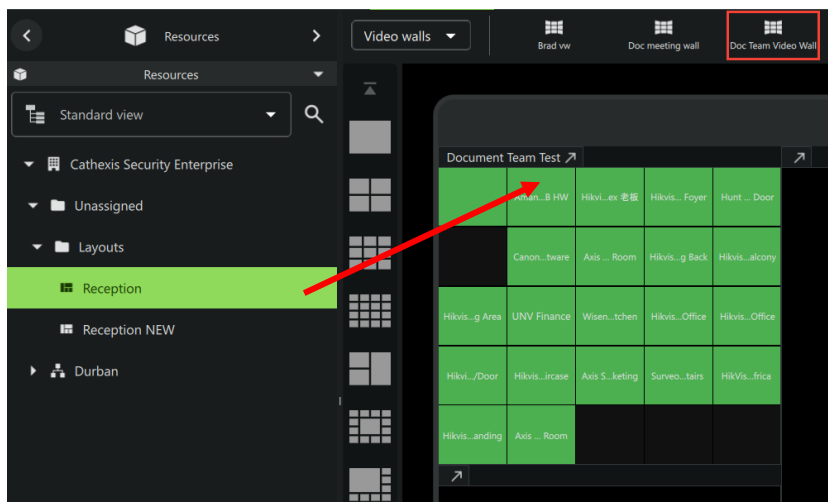
→ Click a camera in the **Resource panel** to select.

→ **Drag and drop** onto a display.

The selected camera will reflect in the display.

11.5.3.2 Copy a Layout into a Monitor

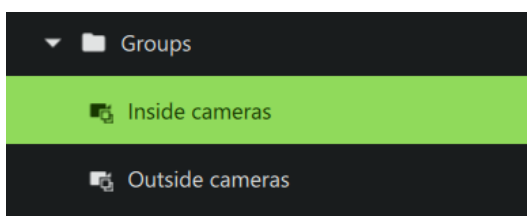
From the video wall, it is possible to make changes to the layout of a monitor using a saved layout.



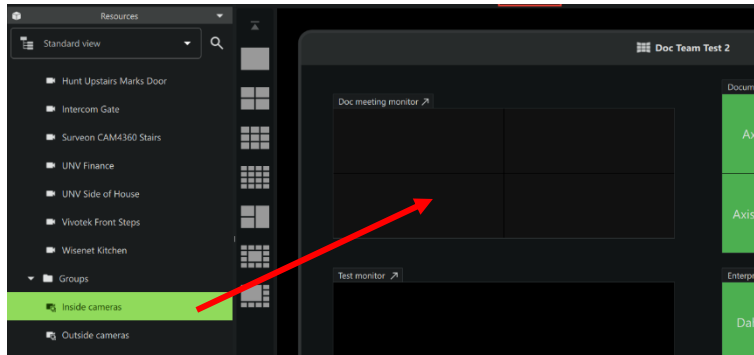
→ **Select a layout** from the side panel.

→ **Drag and drop** onto a monitor.

11.5.3.3 Add a Camera Group to the Monitor



→ **Select a camera group** from the sidebar.

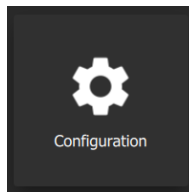


→ **Drag and drop** onto the wall, or, **right-click** and select **Auto layout**.

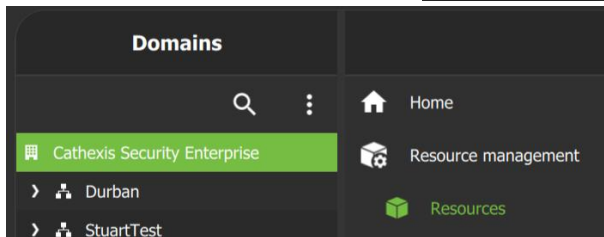
The camera group will be displayed in the monitor on the wall.

11.5.4 Edit a Video Wall

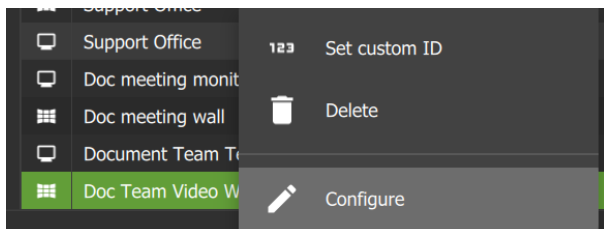
Video walls can be edited in the Configuration tab.



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



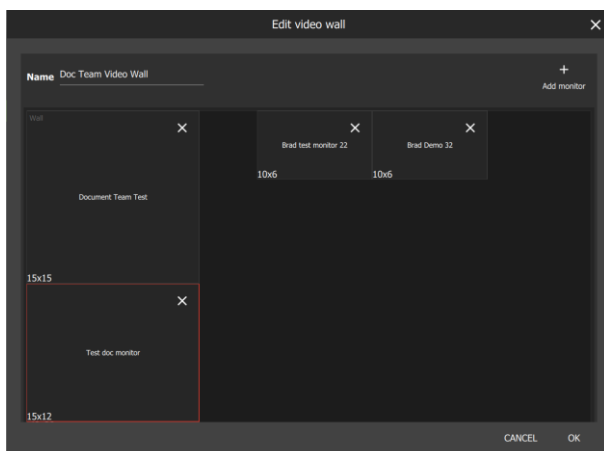
→ Select **Resources** in the menu panel.



→ Right-click the video wall.

→ Select **Configure**.

The video wall editor will open.

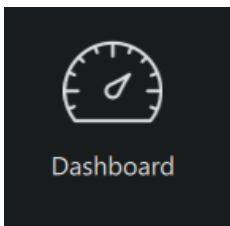


→ Hover over the border of a monitor so that arrows appear.

→ Adjust the size of the monitor as desired.

→ Click **OK** to save changes.

12. Dashboard Tab (Enterprise Connections Only)



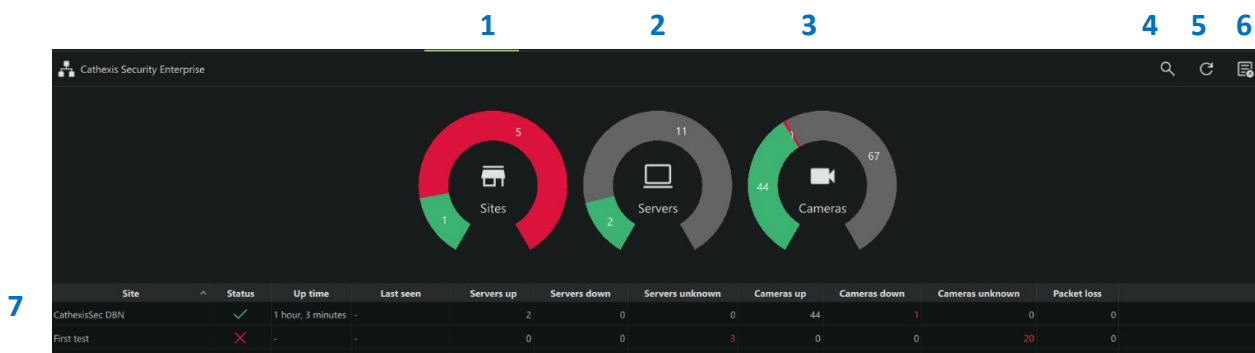
From the home menu, click the Dashboard icon to open a new Dashboard tab.

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.

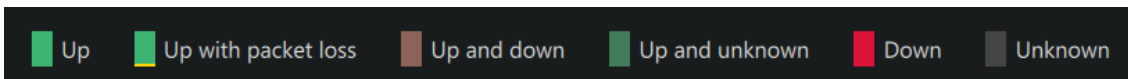
12.1 Health Information Display

Information is presented in a summary format. This is represented visually as well as in the table, as illustrated in the image below.

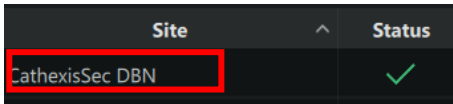


1	Sites: a graphical summary of the status of the sites.
2	Servers: a graphical summary of the status of all servers.
3	Cameras: a graphical summary of the status of all cameras.
4	Search
5	Refresh
6	Export (12.3)
7	Double-click a site name to open a summary of the last 24 hours (12.2).

The status of sites, servers, and cameras are represented using colours.



12.2 View Site Information/Details



To view details about a specific site, **double-click a site name** on the list in the table.

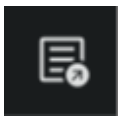
A more detailed screen will appear, as illustrated in the example below.



- The blocks arranged in **rows** represent camera status over **24 hours**.
- Each block represents a 15-minute segment.

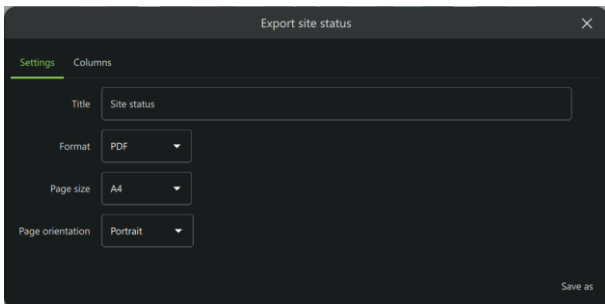
12.3 Export Data Table

Information from the data table can be exported in a customised format.



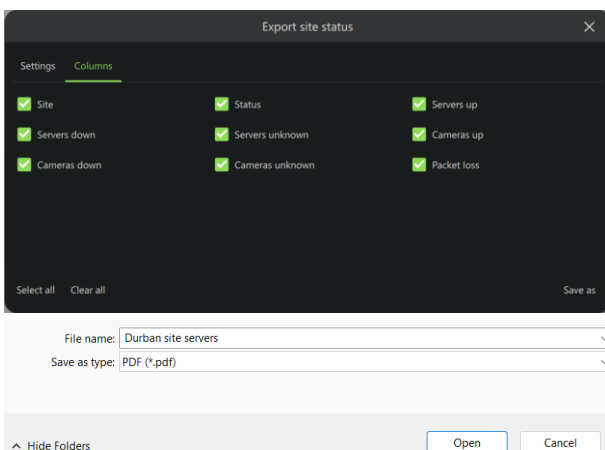
→ Click the **Export icon** to begin customising the report.

A new dialogue will open. Here, configure the report Settings and Columns.



SETTINGS TAB

- Click the **SETTINGS** tab to open if necessary.
- Enter a suitable **Title** for the report.
- Choose a **format**: PDF or CSV.
- Choose the **page size**: A3 or A4.
- Choose a **page orientation**.

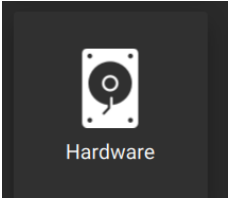


COLUMNS TAB

- Click the **COLUMNS** tab to open.
- **Check or uncheck** the columns which show on the table to control which information appears in the report.
- Click **Save as**.
- Open an appropriate **folder** on the computer.
- Enter a descriptive **file name**.
- Click **Open**.

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.



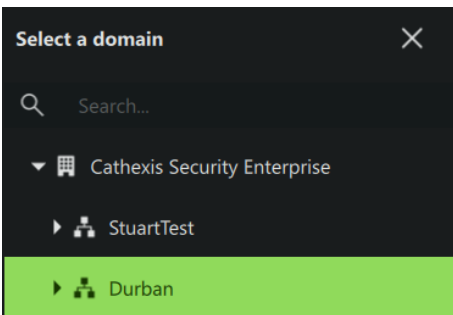
From the home menu, click the Hardware icon to open a new Hardware tab.

The Hardware Tab allows the user to search or filter the items, and export this list.

13.1 Select Domain



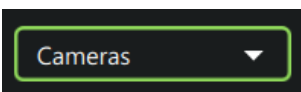
→ Click on the domain name in the top-left corner to open the domain selection options.



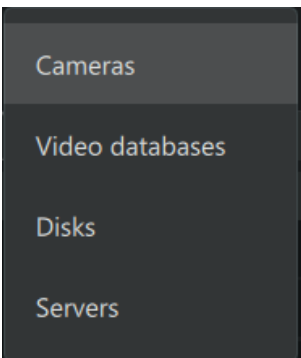
→ Select the desired domain or site.

That domain's hardware information will then be shown in the main display.

13.2 Select Category (Cameras, Video Databases, Disks or Servers)




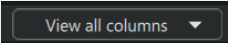
→ Click the drop-down menu.



→ Select whether to view Cameras, Video databases, Disks, or Servers.

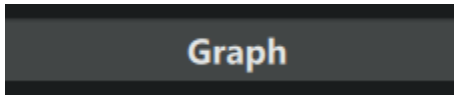
13.2.1 Display Columns

The display shows the following columns for cameras, video databases, disks, and servers.

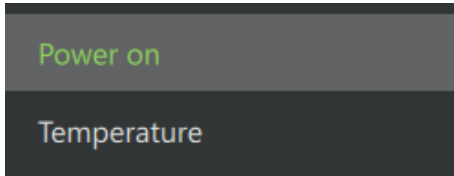
<p>Cameras</p>	<ul style="list-style-type: none"> • Site name • Server name • Camera manufacturer • Camera model • Firmware • Camera name • Serial number • MAC address
<p>Video databases</p> <p>(Note: For information about viewing the content of databases, see 5. Databases (Main) Tab)</p> <p> Degraded databases are highlighted with this icon.</p>	<ul style="list-style-type: none"> • Health • Name • Site • Server • Capacity • Tracks • Recording duration (days) • Slices
<p>Disks</p>	<ul style="list-style-type: none"> • Health • Site • Server • Manufacturer • Model • Rotation • Capacity • Firmware • Serial number • Power-on years • Temperature
<p>Servers</p> <p></p> <p>Click the drop-down in the top-right corner to select which categories of columns to display.</p>	<ul style="list-style-type: none"> • Site • Server • Machine • IP addresses • MAC addresses • 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

13.2.2 Graph (Disks)

In the Disks category, it is possible to see a graphical representation of the disks' temperature and power on periods.



→ Click the Graph heading to expand.

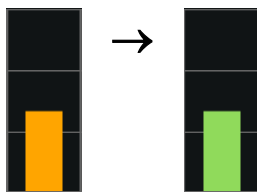


→ It is possible to view graphs depicting **Power on** or **Temperature**.

The unit of measurement in the **Power on** graph is in years. The unit of measurement in the **Temperature** graph is degrees Celcius.

13.2.2.1 See List of Corresponding Items

→ Click a bar in the graph to view the list of items it represents.

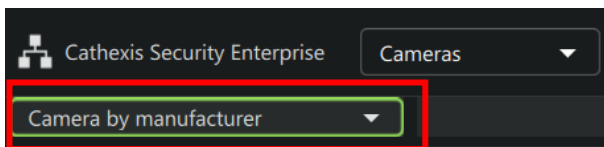


The bar will turn from orange to green, and the details of the items represented by the bar will be listed below the graph.

13.3 Change List Display (Cameras, Disks, Servers)

For cameras, disks, and servers, 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.

1. **Click the drop-down menu** in the left panel (underneath the domain name) to change how the items are sorted in the panel beneath.



A drop-down menu will open.

2. **Click the desired option** to sort items in the panel beneath. The options are as follows:

Cameras

- Camera by manufacturer
- Camera by model
- Camera by firmware

Disks

- Disks by manufacturer
- Disks by model
- Disks by firmware

Servers

- Servers by motherboard
- Servers by CPU
- Servers by OS family
- Servers by OS version
- Servers by SW version

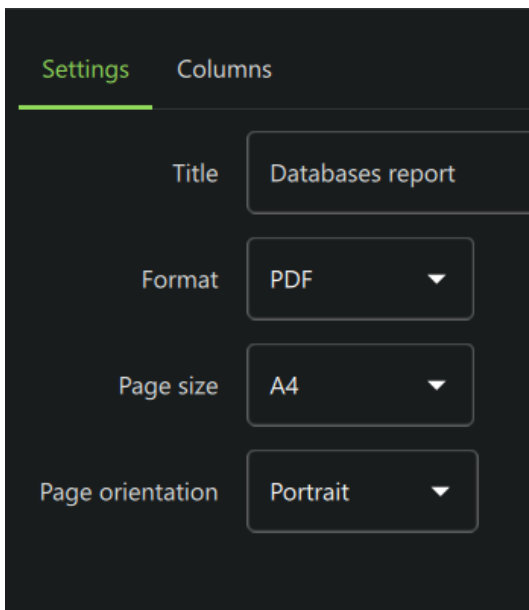
3. Then, **select an item from the list** to filter results. The items that fulfil the search criteria will display in the right-hand panel.

13.4 Generate Reports

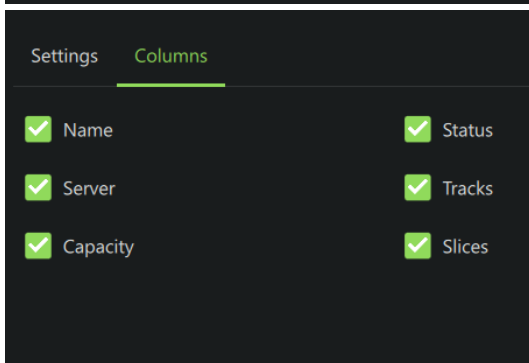
To generate a report, first conduct a search and create a list in the main display. This is the table which will be exported.



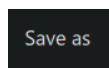
→ Click the **Export icon** in any of the tabs to generate a report.



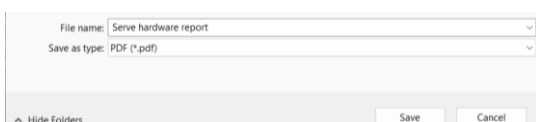
- Select the **Settings** tab.
- Enter a suitable title for the report.
- Select from PDF or CSV **formats**.
- Select **Page size** from A3 or A4.
- Select **Page orientation** from portrait or landscape.



- Select the **Columns** tab.
- Check or uncheck items to display in the report.



→ Click the **SAVE AS** button to confirm both settings and columns, and to **export**.

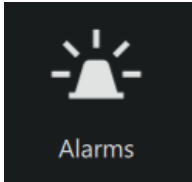


- Choose a suitable folder and **file name**.
- Click **Save**.

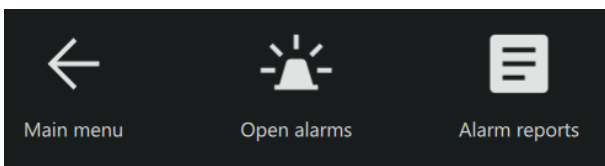
14. Alarms Tab (MultiSite and Enterprise)

Events and technical alarms must be set up in CathesisVision. 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 ([14.1](#))
- Alarm reports ([14.2](#))

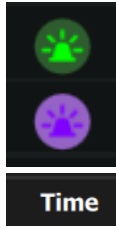
14.1 Open Alarms

Filter	Key	Time	Alarm	Priority	Domain	Description	Owner	State	Tags
	7849777	10:04:23	Motion	Low	CathesisSec DBN	Motion on Hikvision Support Office - mo		New	
	7849778	10:04:23	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Support Office - mo		New	
My open alarms	7849775	10:04:20	Motion	Low	CathesisSec DBN	Motion on Hikvision Rob Office - motion		New	
Any user	7849776	10:04:20	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Rob Office - motion		New	
Any domain	7849773	10:04:14	Motion	Low	CathesisSec DBN	Motion on rly Hikvision Upstairs Balcon		New	
Any alarm	7849774	10:04:14	Doc Team Test	Low	CathesisSec DBN	Motion on rly Hikvision Upstairs Balcon		New	
Priority	7849771	10:04:11	Motion	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		New	
State	7849772	10:04:11	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		New	
Tag	7849769	10:04:09	Motion	Low	CathesisSec DBN	Motion on Hikvision Testing Back - moti		New	
	7849770	10:04:09	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Testing Back - moti		New	
	7849767	10:04:05	Motion	Low	CathesisSec DBN	Motion on UNV Side of House - motion		New	
	7849768	10:04:05	Doc Team Test	Low	CathesisSec DBN	Motion on UNV Side of House - motion		New	
	7849765	10:04:04	Motion	Low	CathesisSec DBN	Motion on rly Hikvision Upstairs Balcon		New	
	7849766	10:04:04	Doc Team Test	Low	CathesisSec DBN	Motion on rly Hikvision Upstairs Balcon		New	
	7849763	10:04:01	Motion	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		New	
	7849764	10:04:01	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		New	
	7849761	10:04:00	Motion	Low	CathesisSec DBN	Motion on Hikvision Testing Back - moti		New	
	7849762	10:04:00	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Testing Back - moti		New	
	7849759	10:03:56	Motion	Low	CathesisSec DBN	Motion on Hikvision Support Office - mo		New	
	7849760	10:03:56	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Support Office - mo		New	
	7849757	10:03:51	Motion	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		New	
	7849758	10:03:51	Doc Team Test	Low	CathesisSec DBN	Motion on Hikvision Reception - motion		New	
	7849755	10:03:49	Motion	Low	CathesisSec DBN	Motion on UNV Side of House - motion		New	
	7849756	10:03:49	Doc Team Test	Low	CathesisSec DBN	Motion on UNV Side of House - motion		New	
	7849753	10:03:46	Motion	Low	CathesisSec DBN	Motion on Canon Software VMD - motion		New	
	7849754	10:03:46	Doc Team Test	Low	CathesisSec DBN	Motion on Canon Software VMD - motion		New	
	7849751	10:03:42	Motion	Low	CathesisSec DBN	Motion on Hikvision Testing Back - moti		New	

Filters ([14.1.3](#))

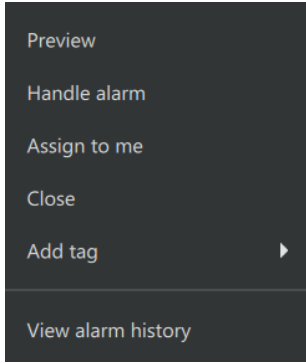
Open alarms

Further options



The alarm icon colour is set in the Configuration tab.

(Carbon / Configuration tab / Enterprise / Alarms / New Alarm / Colour)



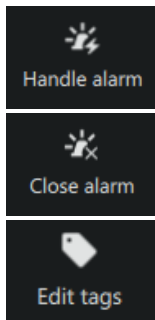
→ Click a category to sort the alarms by that category.

→ Right-click an individual alarm to view and select options.

14.1.1 Quick Actions

→ Click on an alarm in the list of open alarms.

→ Then click one of the buttons in the top-left.



Click to open the [Alarm viewer](#).

Click to close the selected alarm/s.

Click to modify the tags of the selected alarm.

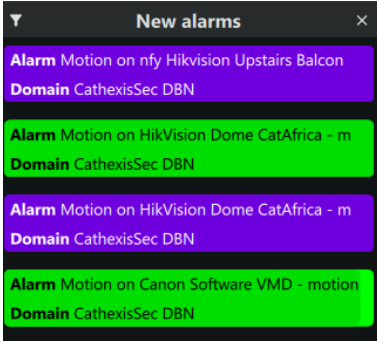


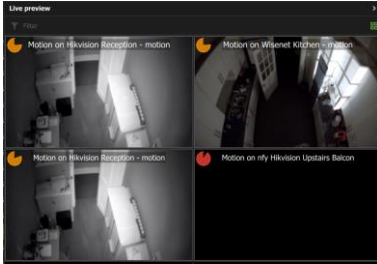




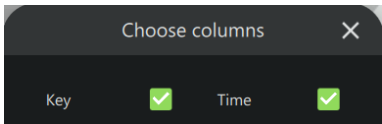
14.1.2 Open Alarms Tab Viewing Options

		Status	Explanation	
TABLE LOCK ICON		Unlocked	Click this icon to lock the table manually. The icon will change to manually locked .	→
		Auto-locked	When there is mouse movement, the table view auto-locks (the icon changes from unlocked to auto-locked). After several seconds of inaction, the icon will change back from auto-locked to unlocked .	→
		Manually locked	The table view will not change as new alarms come in. Click the icon to change the status to auto-locked .	→




→ Click the ellipses icon in the top-right corner of the Open alarms tab to view further options.

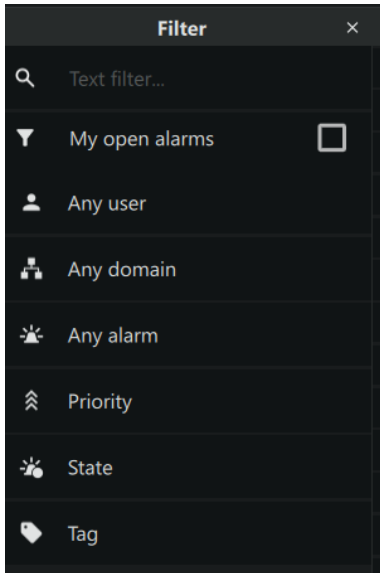
FURTHER OPTIONS

Selection	Explanation
<input checked="" type="checkbox"/> Filter panel	Select this option to open the filter panel in the Open alarms tab.
<input checked="" type="checkbox"/> New alarms panel	Select this option to open the New alarms panel , which shows new alarms as they come in. <div style="display: flex; align-items: flex-start; margin-top: 10px;"> <div style="flex: 1;">  </div> <div style="flex: 1; padding-left: 10px;"> <p>The New Alarms panel will open, showing new alarms as they come in.</p> <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;">  → Click to filter the new alarms. </div> <div style="display: flex; align-items: center;">  → Click to collapse the New alarms panel. </div> </div> </div> </div>
<input checked="" type="checkbox"/> Previews panel	Select this option to open the Previews panel , which shows alarm previews as they come in. <div style="display: flex; align-items: flex-start; margin-top: 10px;"> <div style="flex: 1;">  </div> <div style="flex: 1; padding-left: 10px;"> <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="display: flex; align-items: center;">  → Click to filter the new alarms. </div> <div style="display: flex; align-items: center;">  → Click to collapse the Live preview panel. </div> <div style="display: flex; align-items: center;">  → To change the number of columns in the live preview panel, click this icon. </div> </div> <div style="margin-top: 20px;">  <p>The time elapsed since the alarm began is indicated by the shape of this icon.</p> </div> </div> </div>
<input type="checkbox"/> Sync filters	<p>Sync filters: Selecting this will use the filters set in the <i>Filter panel</i> to override any filters set in the <i>New alarms panel</i> and <i>Previews panel</i>.</p>
<input checked="" type="checkbox"/> Choose columns...	Select this option to choose the columns that will appear in the open alarms area. Check or uncheck categories as necessary. The available column categories are: Alarm priority, Key, Time, Alarm, Priority, Domain, Description, Owner, State, Tags, Trigger time, Arrival time. <div style="margin-top: 10px;">  </div>

14.1.3 Filters Panel

 → To collapse the filters panel, click the icon.

The alarms listed in the **Open alarms** panel can be filtered according to the following parameters.

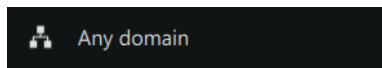


- Entries that match the text entered here
 - Open alarms belonging to the user
 - A specified user
 - A specified domain
 - A specified alarm
 - Critical, high, medium or low priority alarms
 - New, assigned or active alarms
 - Alarm tags
- Currently open alarms and table rows are listed at the bottom of the filters panel.

14.1.3.1 Any User, Any Domain and Any Alarm



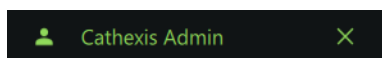
→ To filter by a user, click **Any user**. Select the user in the window that opens.



→ 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 X next to the filter.

14.1.4 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**.

14.1.5 Close

→ To close an alarm, right-click an alarm entry and select **Close**.

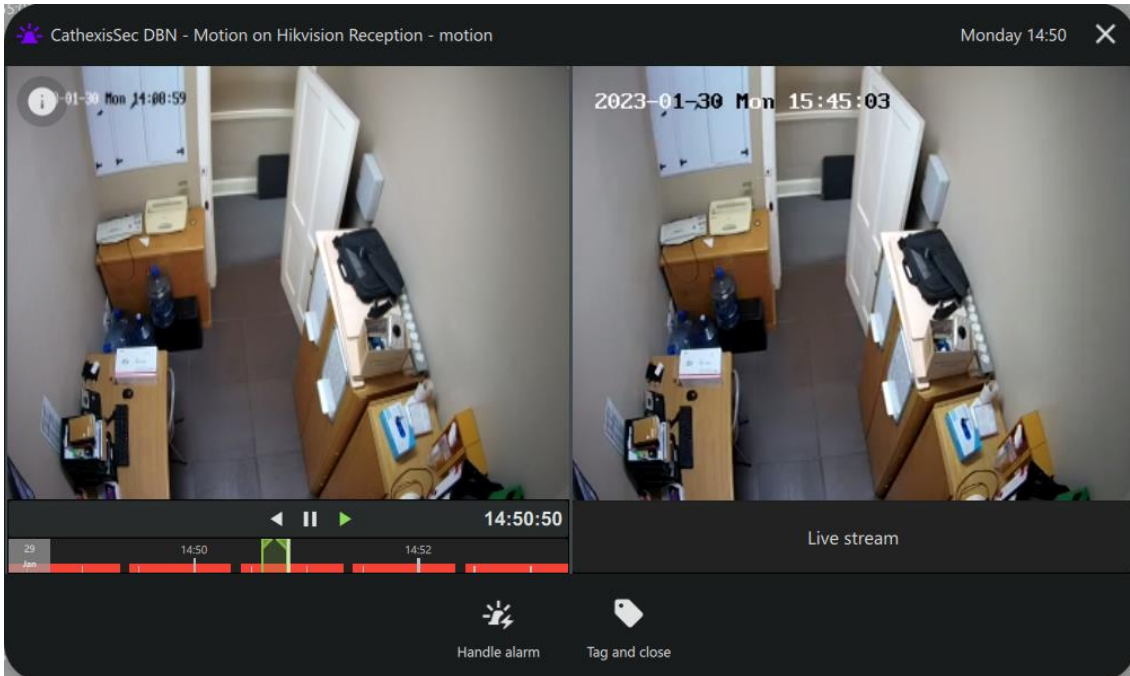
14.1.6 Tags

→ To add a tag to an alarm, right-click an alarm entry and hover the mouse over **Tags**. Then select a tag.

14.1.7 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

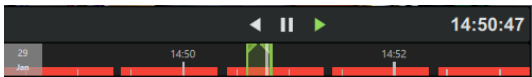
The domain and alarm trigger are listed in the top left.

Monday 14:50

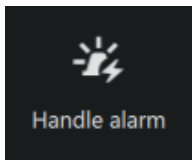
The day and time are listed in the top right.



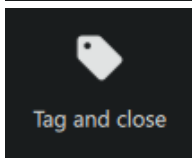
→ Click this icon to view alarm information.



→ 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](#).

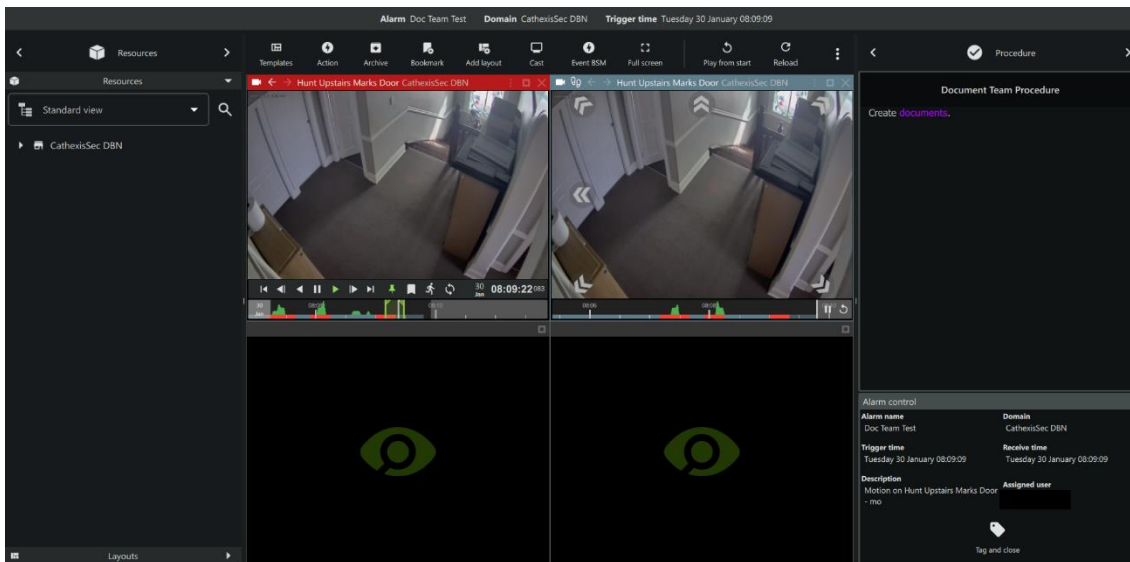
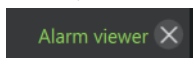


→ Click **Tag and close** to select a tag for the alarm and then close it.

14.1.8 Handle Alarm (Alarm Viewer)

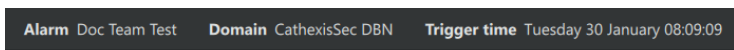
- Right-click an alarm entry and select **Handle Alarm** open the Alarm Viewer.
- To close the Alarm viewer, hover the mouse over the Alarm Viewer tab until the **close icon** appears.

Click the close icon.



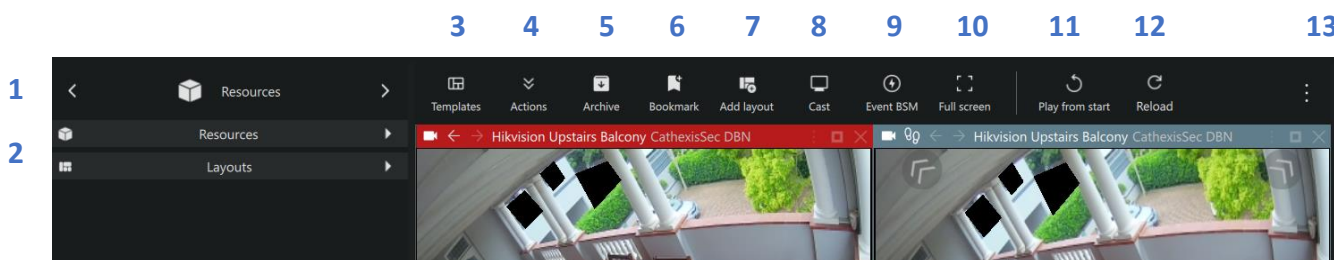
Monitoring area

Alarm information and alarm resources / procedures



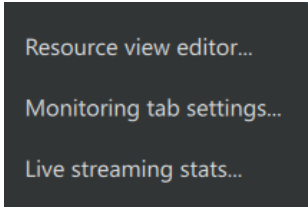
Information about the alarm is displayed at the top of the viewer.

MONITORING AREA

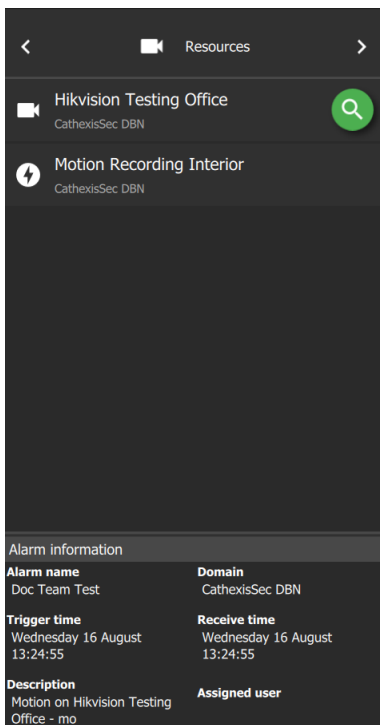


14

		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		Play from start
12		Reload
13		<p>Settings Menu</p> 
14	Camera Panel Display	

ALARM INFORMATION: RIGHT PANEL



Click the arrows to switch between **Resources** and **Procedures** associated with the alarm.

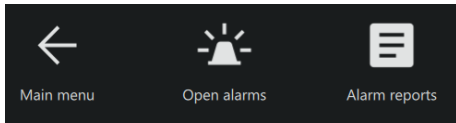
Click this icon to search.

→ To add a camera to the viewing panels, double-click the camera listed under Resources.

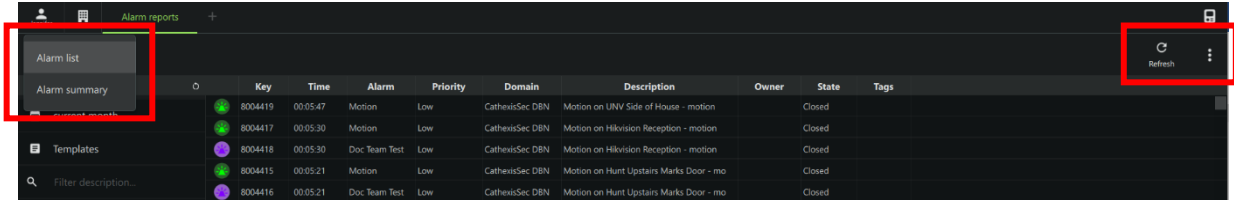
The procedure associated with the alarm (if any) will be displayed when the **Procedures** option is selected.

The alarm information will be listed.

14.2 Alarm Reports



After opening a new Alarms tab, select **Alarm reports**.



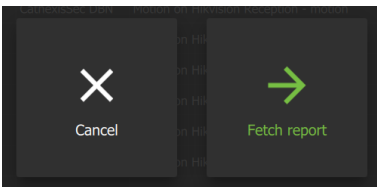
→ Click the arrow to select to view the **Alarm list** or **Alarm summary**.



→ To refresh the page, click the **refresh icon**.



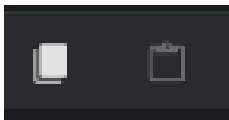
→ Click the **ellipses icon** to reveal further options.



Selecting any option in the filters panel of the **Alarm reports** tab will display this overlay.

Click **Fetch report** to fetch the report.

14.2.1 Copy and Paste



The **copy and paste buttons** (in the top-left corner of the left panel) allow for the copying and pasting of alarm filters, or alarm summaries (depending on whether the user is in the **Alarm list** or **Alarm summary** view).

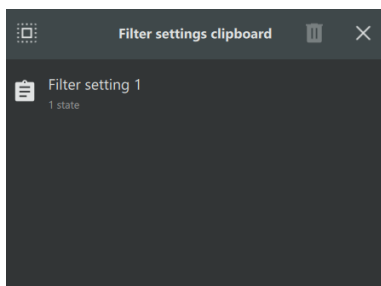


→ Click the copy icon to copy either an alarm filter or an alarm summary.



→ Click the paste icon to paste the last item copied.

→ Pressing and holding the paste button will reveal the clipboard. This will allow the user to paste items into the alarm filter (if in the Alarm list view) or the alarm summary setting (if in the Alarm summary view).



14.2.2 Further Options (Alarm List and Alarm Summary)

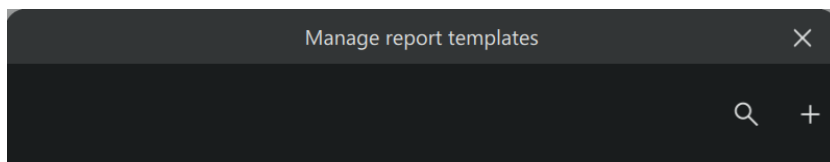
	→ Click the menu icon in the top-right corner.
	→ Click Export . The Export dialogue will open.
	→ Click Manage report templates . The Manage report templates dialogue will open.

14.2.2.1 Export

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>

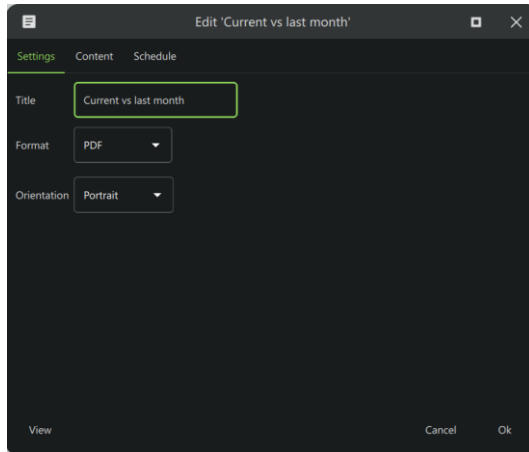
→ To export the report, click **Save as**. Choose a location, enter a file name and click **Save**.

14.2.2.2 Manage Report Templates

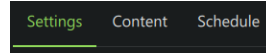


	→ Click a template to edit it.
	→ Click the search icon to search the report templates.
	→ Click the plus icon to add a new template.

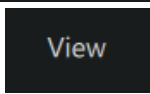
Edit Template



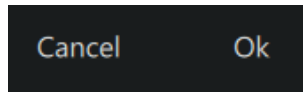
→ Clicking a template will open the **Edit template** dialogue.



Click on the tabs to edit the content in them.



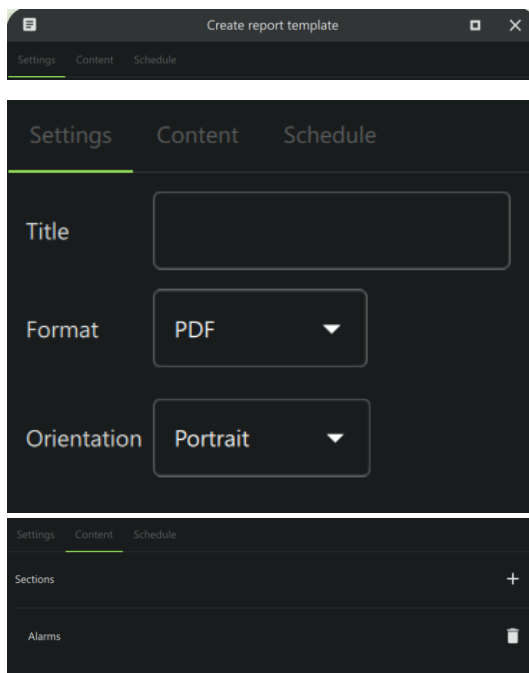
→ Click **View** to view the report file.



→ Click **Cancel** to cancel the changes.

→ Click **OK** to save changes.

Add a New Template



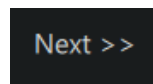
→ Clicking the **plus icon** will open the **Create report template** dialogue.

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.

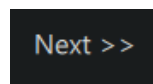
Content tab

→ 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.

→ Click **OK** to save changes.



Click **Next** to move to the next tab.

Schedule tab

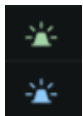
- Check **Email report**.
- Click the fields to edit them.
- Use the up and down arrows to adjust the values.
- Enter an email subject.
- Click the **plus icon** to add email recipients.

Save

→ Click **Save** to save changes.

14.2.3 Alarm List

	Key	Time	Alarm	Priority	Domain	Description	Owner	State	Tags
	8783527	05:29:05	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion		Closed	
	8783526	05:28:55	Motion	Low	CathexisSec DBN	Motion on Hikvision Reception - motion		Closed	

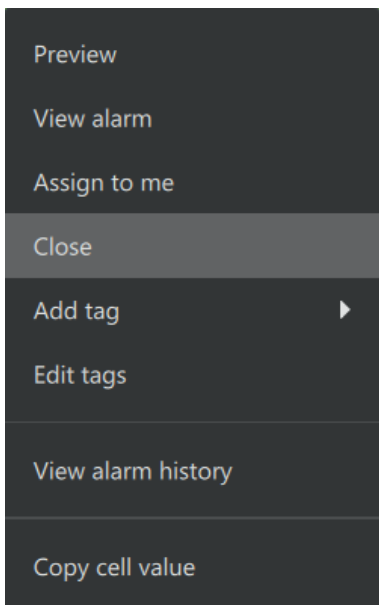


The alarm icon colour is set in the Configuration tab.

Time

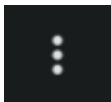

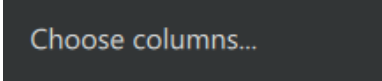
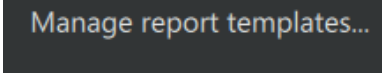
→ Click a category to sort the alarms by that category. The possible categories are: Key, Trigger time, Arrival time, Time, Alarm, Priority, Domain, Description, Owner, State, Tags.

→ Right-click an individual alarm to view the options. See below.



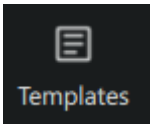
- Click **Preview** to [preview](#) the selected alarm.
- Click **View alarm** to open the [Alarm viewer](#).
- Click **Assign to me** to assign the alarm to the current user.
- Click **Close** to close the selected alarm.
- To add a tag to the selected alarm, hover the mouse over **Add tag**. Then select a tag.
- To modify the tags of the selected alarm, click **Edit tags**.
- Select **View alarm history** to view the history of the selected alarm.
- Click **Copy cell value** to copy the cell text to the clipboard.

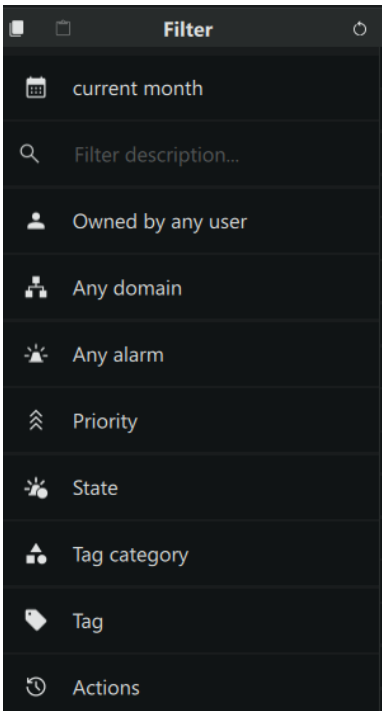
14.2.3.1 Export, Choose Columns or Manage Report Templates



	→ To select from further options, click the ellipses icon in the top-right corner.
	→ Click Export to export the alarm list in either PDF or CSV format. The Export dialogue will open.
	→ Select Choose columns . The Choose columns dialogue will open. Check or uncheck column categories as necessary.
	→ Click Manage report templates to select or create a report template.

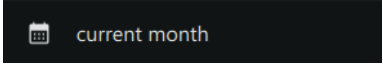
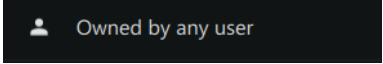
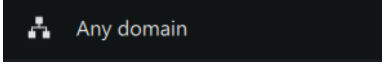
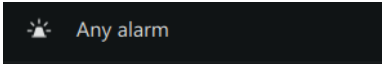
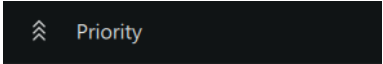
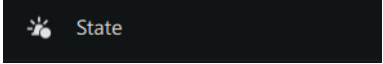
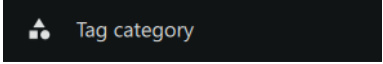


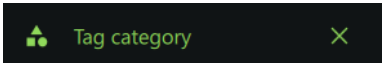
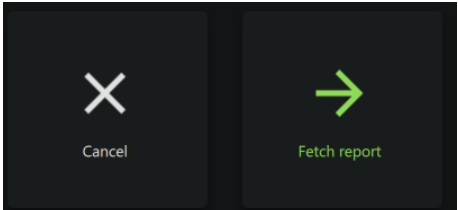
14.2.3.3 Filters

The alarms in the **Alarm list** can be filtered according to the following parameters:

	→ To choose a filter template, click Templates . Select the template in the dialogue that opens.
	Note: To create a new template, see Manage report templates . 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.

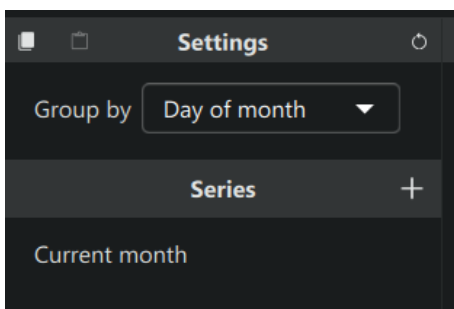
	<ul style="list-style-type: none"> • A specified time period • Entries that match the text entered here • A specific user • A specific domain • A specific alarm • Priorities • Alarm states • Alarm tag category • Alarm tag • Actions
-------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	→ 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.
	→ Once filter/s have been set, it is possible to reset the entire filter panel to its default state (closed alarms) by clicking the refresh icon .

- 
→ To filter by a time, click the time filter. In the dialogue that opens, either select a **Preset time range**, or choose a **custom time range**. Click **OK** to save changes.
 - 
→ To filter by a user, click **Any user**. Select the user in the dialogue that opens. Click **OK** to save changes.
 - 
→ To filter by domain, click **Any domain**. Select the domain in the dialogue that opens. Click **OK** to save changes.
 - 
→ To filter by alarm, click **Any alarm**. Select the alarm type in the dialogue that opens. Click **OK** to save changes.
 - 
→ To filter by a priority, click **Priority**. The list of options will expand below. Select a priority.
 - 
→ To filter by states, click **State**. The list of options will expand below. Select a state.
 - 
→ To filter by tag category, click **Tag category**. Choose from Alarms, False alarms, and Services.
 - 
→ To filter by a tag, click **Tags**. The list of options will expand below. Select a tag.
 - 
→ To filter by the action performed by a user, click **Actions**. Select a user and an action, such as closed alarm, added tag, or removed tag)
 - 
→ To clear any of the selected filters, click the X next to the filter.
- 
→ After choosing filters, click **Fetch report**.

14.2.4 Alarm Summary

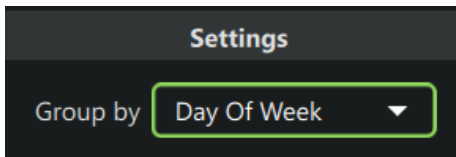
The Alarm Summary section presents the summaries of alarms, grouped according to parameters set by the user.



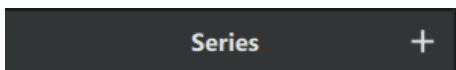
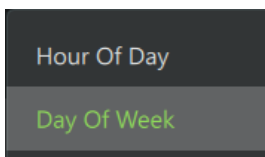
In **Settings**, choose how the alarms will be grouped in the table.

In **Series**, choose the table columns.

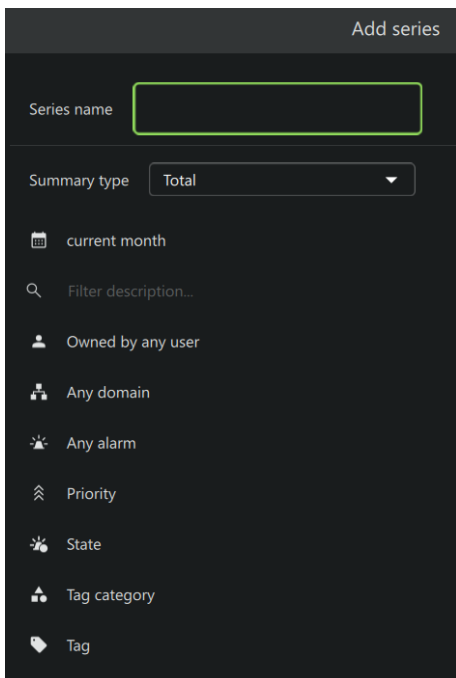
For example:



→ Click the arrow under **Settings** to choose a grouping from the drop-down menu.



→ Click the plus icon next to the **Series** heading. This will open the **Add series** dialogue.



→ Enter a name for the series in the **Series name** field.

→ Select a **Summary type**.

→ Select a filter (column) type.

Icons in top-right corner of the Add series dialogue:



→ Click this icon to copy the filter settings to the clipboard.



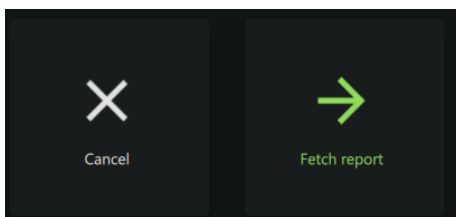
→ Click this icon to paste the copied filter settings.



→ Click this icon to reset the filter settings.

→ Click **OK**.

Note: It is possible to add multiple series.



→ Click **Fetch report**.

Settings		Day Of Week	Current month	Ambulance count	Doc team alarms
Group by	Day Of Week	Monday	82825	2	0
		Tuesday	84530	0	0
		Wednesday	67707	0	0
		Thursday	85411	2	22413
		Friday	82074	11	15693
		Saturday	58653	0	0
		Sunday	49899	0	0

The report will be presented, showing the parameters set in the left panel.

15. Conclusion

Note: This manual was designed to deal with the installation and setup of Carbon.

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>