CATHEXIS®

CathexisVision®
Video Surveillance Management Solutions

CathexisVision is a **video management solution** packed with features that satisfy **security and infrastructure management** requirements in diverse **market** sectors.

Customers worldwide rely on **CathexisVision** for:

- Effective site management
- Control room efficiency
- Situational awareness
- Integrated solutions
- Reliable evidence

Control Room

Improve **situational awareness**, mitigate risk, and speed up response times through flexible **event management** and **actions**.

Video Wall

- Allow multiple users to view video and map interfaces simultaneously
- Display footage on multiple monitors
- Switch cameras on events
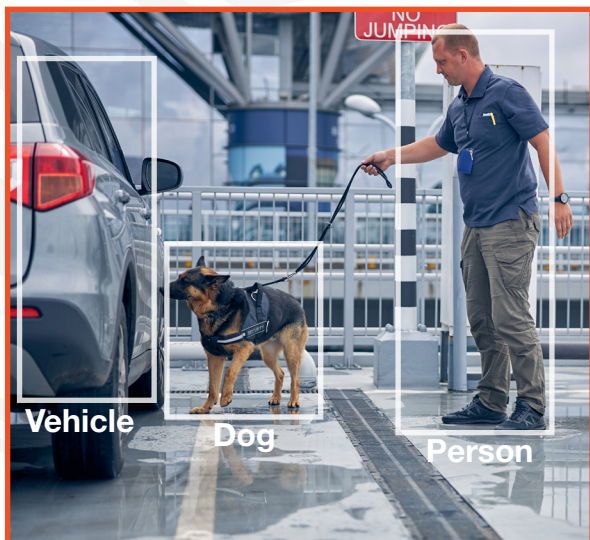- Layouts are controlled via mimic panel

Event Management

- Identify changes and automate tasks
- Inputs, video analytics, or integrated systems can trigger events
- Rules-based configuration enables events to set off actions
- Actions include switching cameras, emails, alarms, audio clips and more

Video Analytics

- Integrate on-camera analytics
- Health and safety algorithms (proximity analysis, occupancy counting, face and mask detection)
- Reduce false alarms
- Multi-zone detection
- Direction, speed, line-crossing
- Object classification using AI / neural networks (people, animals, vehicles)

Vehicle Dog Person

Alarm Management

- Alert operators to relevant alarms
- 'Black-screen' / exception-based
- Monitor multiple cameras or sites
- Automatically guide operators to cameras associated with alarms
- Search and reporting tools

Adjacent Camera Mapping

- Track movement across cameras
- Live and recorded footage

Maps

- Multi-layered, interactive interface
- Represent and control site resources

Archiving / Exporting

- Retrieve and export evidence securely for forensic use

CathexisVision Mobile

- Simple operation
- Quick analysis
- Greater control
- Customisable options

Carbon

A sleek user interface with an enhanced feature set and improved performance, Carbon offers the ultimate in operator ease-of-use.
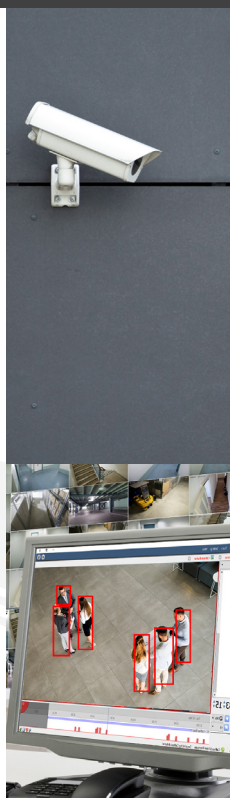
Camera Management

Integration with all **major IP camera brands** and easy, intuitive setup of hundreds of cameras on-site.

Camera Support

The CathexisVision solution supports thousands of the most popular brands of IP cameras

- Support includes multiple video streams, audio, input/output control, on-camera analytics and recording, and fisheye camera de-warping
- Reference image analysis
- Integration with thermal cameras

Setup Wizards

- Easy setup process for cameras, databases, recording, video analytics, events and actions

Multi-Server Sites

- Site-based management infrastructure through CathexisVision Premium

Multi-Site Management

- Remote client system management
- Efficient video streaming

Integration

Integration with third-party systems provides **video verification** of events and **automated** responses.

Fire Management — Access Control — Fence Systems — Storage

POS — Intercoms — Metal Detectors — Money Counters

Integrated Solution

DVR & NVR — Weighbridges — PSIM — Barcode Readers

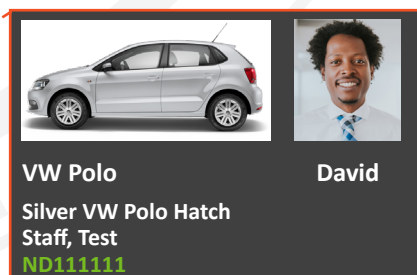Elevators — Escalators — Mass Network Storage — BACnet

ANPR

- Automatic Number Plate Recognition
- Low and high-speed applications
- Number plate information is stored in database along with associated video
- Compare recognised number plates with lists of authorised vehicles in real-time
- Parking and access control applications
- High-speed freeway detection
- Traffic rules (average speed, reporting, loitering and repeat detections)

Integration Overlays

**David
Cathexis
Allowed In
Main Entrance**

David

VW Polo   **David**

**Silver VW Polo Hatch
Staff, Test
ND111111**

Ease of Use & Stability

System **reliability** and **low maintenance** maximise up-time and cost-effectiveness.

Upgradeable Architecture

- Easily upgradeable and scalable

Health Monitoring

- Send alarms to selected recipients
- Monitor a wide range of parameters

Flexible Storage Solutions

- Support for Network Storage systems as well as on-server storage options
- Multiple, user-defined databases
- Store critical video in more than one database simultaneously

Access Rights Management

- Multiple levels of users, each with a unique username and password
- Administrators can centrally manage users across the site or multiple sites

Diagnostics

- Real-time and historical system analysis
- Troubleshoot problems by monitoring network camera video streaming, recording bitrates, live viewing statistics, and network throughput

Camera Parameter Cloning

- Copy and paste settings across cameras
- Settings include video streams, resolutions, frame rates, and bitrates

Failover Redundancy

- If a recording or video management server fails, a 'failover' server will automatically perform its tasks
- When the failed server is replaced, all configuration and recorded footage is ported back to the replacement server

Search incidents

SMART Search features speed up the review of recorded footage. Find **specific, relevant footage** easily.

Snap Search

- Pinpoint an incident's time using linked snapshots and play video immediately

Motion Search

- Find recorded footage associated with motion in selected areas

Bookmarking

- Bookmark recorded footage, add comments, and search database easily

Database Filtering

- Filter footage and metadata

Activity Trails

- An overlay map shows the latest activity in all areas of the camera view

Heat Maps

- Colour-map overlay depicts amount of movement in the camera view (red = maximum, green = minimal)
- Useful in retail environments

Security & Compliance

Files are protected and information is stored **securely**.

Cybersecurity and Privacy

- Cryptographic techniques protect information
- Secure communication between system components

Protected Archives

- Face redaction algorithms
- Privacy zones

CatObserver

- Viewing monitor or screen can be configured as a virtual camera
- Activity viewed on the screen can be recorded
- Access and archive footage easily without needing to retrieve footage from all the cameras involved

Market Sectors

CathexisVision meets the operational and security requirements of **diverse sites** and **industries**.
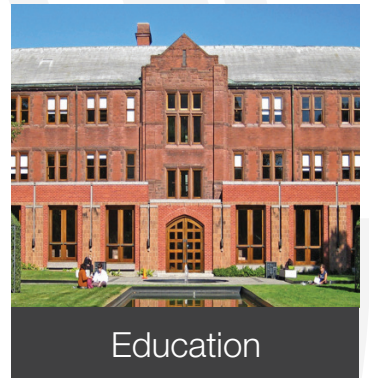

Airports

Banking
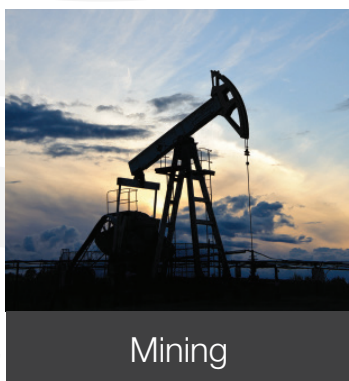

City Surveillance

Education

Healthcare

Hospitality

Housing

Logistics

Manufacturing

Mining

Transport

Retail

CathexisVision 2022 Package Comparison

+ Available with license   • Feature included   – Not applicable

Features	LITE Single server package	CORE Single server product	PROFESSIONAL Medium to large site	PREMIUM WAN/large site
Upgradeable (to higher package)	–	•	•	–
Camera and Server Limits				
Max camera channels per site*	48	48	150	Unlimited
Max recording servers per site	1	1	Unlimited	Unlimited
Camera Support				
MJPEG, H.264, H.265 and MXPEG and ONVIF support	•	•	•	•
Multiple video streaming (per camera)	•	•	•	•
Thermal camera support	•	•	•	•
Audio and I/O support	•	•	•	•
Fisheye de-warping	•	•	•	•
Client Connections				
Max simultaneous connections (including local)	3	7	10	Unlimited
Viewing and setup client	•	•	•	•
Mobile client support	•	•	•	•
Useability and Functionality				
Multiple language support	•	•	•	•
Redundant failover server/s support	-	-	+	+
Interactive map support	+	+	+	•
Adjacent camera mapping	•	•	•	•
Audio recording and bi-directional	•	•	•	•
CatObserver (monitor recording)	+	+	+	+
Video Analytics				
Basic VMD	•	•	•	•
Cathexis SMART motion detection	+	+	•	•
Advanced analytics suite	+	+	+	+
Edge analytics support	•	•	•	•
Object classification (neural networks)	+	+	+	+
Face and facial landmark detection	+	+	+	+
Mask detection	+	+	+	+
Object/occupancy counting	+	+	+	+
Smart Search				
Snap search | Motion search | Activity trails | Bookmarking	•	•	•	•
Storage				
Local storage (on recording server)	•	•	•	•
Network support	•	•	•	•
Edge storage	•	•	•	•
Event Triggers				
Physical input triggers	•	•	•	•
On-server analytics triggers	•	•	•	•
Edge analytics triggers	•	•	•	•
Third-party system event triggers	+	+	+	+
Technical alarm triggers	•	•	•	•
Event Actions				
Record pre-and post-events	•	•	•	•
Output control	•	•	•	•
Send SMS and email	–	•	•	•
Send alarm/event to Alarm Management Gateway	–	•	•	•
Video Wall control	•	•	•	•
Play audio clip	•	•	•	•
PTZ - move to a preset location on an event trigger	–	•	•	•
Send technical alarms to Alarm Gateway	•	•	•	•
ANPR (Automatic Number Plate Recognition)				
Low and high speed	+	+	+	+
Average speed measurement	+	+	+	+
Traffic rules	+	+	+	+
Integration				
Third-party systems integration	+	+	+	+
API integration	•	•	•	•
Video Wall				
Mimic panel	+	+	+	•
Camera and layout tours	+	+	+	•
Automatic camera and layout switching on events	+	+	+	•
Alarm Gateway Integration				
Technical alarms	•	•	•	•
Event alarms	–	•	•	•
Alarm escalation and tracking	•	•	•	•
Reporting				
System health reports	•	•	•	•
Customisable management reports	•	•	•	•
User Management				
Access rights control	•	•	•	•
User activity logs	•	•	•	•

*Multi-sensor cameras or encoders utilise multiple channels in the software-level channel count, even when only a single license is required.