



CathexisVision[®]

Solutions Beyond Surveillance
Increase return on investment

The CathexisVision IP Video Management Software suite provides an extensive range of sophisticated solutions to satisfy all security and infrastructure management requirements across a wide variety of market sectors. These sectors include retail, banking, mining, education campuses, residential and commercial estates, manufacturing, healthcare, transport, logistics and city surveillance among many others.

The open architecture enables IP cameras, recording servers, viewing infrastructure, and third party systems suited to a particular application to be integrated seamlessly. This provides clients

with optimum solutions and maximum return on investment. CathexisVision software can operate on both Windows and Linux operating systems and our focus on "ease-of-use" has enabled us to produce a user-friendly interface that will facilitate efficient, accurate installation of your system.

So whether the surveillance requirement is for a single site, a chain of small retail stores, a complex organisation with outlets across borders and continents, or mining operations with thousands of cameras, the CathexisVision range of software has a solution for you.





IP Camera Support

CathexisVision supports most popular brands of IP cameras using both ONVIF and proprietary protocols via a true UPnP interface. Integration includes multiple video streams, audio, input/output control, on-camera (Edge) video analytics as well as 360 and 180 degree "fisheye" camera de-warping algorithms. A complete list of integrated cameras can be obtained from our website www.cathexisvideo.com.



Event and Action Management

The CathexisVision software offers intelligent configuration of events and the actions that can be initiated in response to these events.

Events can be triggered from inputs, video analytics, or integrated third-party system triggers. Rules-based configuration enables automatic responses associated with these specific events to be performed, including switching cameras to monitors, sending emails, controlling relay outputs, sending alarms to a control room, playing audio clips and many others.



Third Party Systems Integration

Third party systems such as alarm and fire panels, access control, point-of-sale, building and plant management systems, and perimeter monitoring equipment can be integrated with the Cathexis software to provide an extremely powerful single user interface, with video verification of events that occur on these systems. Rules-based actions can then be initiated from the event data.



Storage Solutions

CathexisVision provides flexible storage solutions that can be tailored to suit client requirements. Multiple databases situated on recording servers, or at network addressed storage (NAS) areas, enable clients to maximise storage effectiveness.



Multi-server Site Management

The CathexisVision Premium software provides a true site based management infrastructure, with multiple recording and viewing servers, cameras, and storage all being managed from a centralised location. The easy-to-use graphical user interface provides the operator with seamless access to cameras and resources anywhere on or off site.



Access Rights Management

Large sites often require multiple control rooms and tiers of management. Therefore, for effective site management it is important to control the access levels of the various users. CathexisVision software offers multiple levels of users each with a unique username and password. Administrators can manage users across the site, or across multiple sites, from a central location.





Off-site and Multi-site Monitoring

The CathexisVision site management software provides authentic remote client system management. This includes performing all system functions from set-up to viewing, reviewing and system management, from anywhere across the globe. We provide many compression techniques to provide efficient streaming of video across limited bandwidth infrastructures.



Alarm Management

Large installations may contain hundreds of cameras which are impossible to monitor effectively on a continuous basis. In this scenario a "black-screen" monitoring approach is used, in which the system generates an alarm that guides the user to the camera that should be monitored.

The CathexisVision Alarm Manager software provides this interface with complete alarm logs and the ability to "escalate" alarms to supervisors. A comprehensive reporting facility is included in the software. Similarly, when monitoring multiple sites from a central location, the alarm manager receives alarms from the various sites and provides an automatic connection to the sites initiating the alarm. Alarm video previews with pre- and post-event clips can be automatically downloaded and archived at the control room.



Camera Parameter Cloning (CPC)

Our CPC feature makes it easy to apply camera settings across multiple cameras. Settings like multiple video streams, resolutions, frame rates, bitrates and others are easily copied and pasted from one reference camera to as many of your site's cameras as you wish, thereby reducing site setup times significantly.



Setup Wizards

To make setup easier, and reduce the probability of error, Cathexis has introduced new setup "Wizards". These wizards logically guide clients through the setup process for cameras, databases, recording, analytics, events and event actions.



Video Wall

The Video Wall facility in CathexisVision provides intelligent management of the video that is displayed on multiple monitors. This provides the ability to: manage and perform camera and layout sequences; automatically switch cameras to monitors (or panels within monitors) upon a specified event; automatically or manually control monitor layouts via an interactive mimic panel and to review cameras on the video wall. With CathexisVision your control room environment can be tailored to suit your needs.



ANPR (Automatic Number Plate Recognition)

CathexisVision provides an Automatic Number Plate Recognition (ANPR) solution for both low- and high-speed applications. License plates are recognised and stored in a database with associated video footage. These license plates can be compared to blacklists or whitelists in real-time, which provides the ability to take appropriate action against these comparisons. So whether you have a Parking/Access Control application or a high-speed freeway detection requirement, CathexisVision has the solution for you.



CatMobile

Our mobile device applications enable you to remotely view cameras from your mobile device. CatMobile enables you to view up to four cameras simultaneously, review recorded footage from selected cameras and control PTZ cameras from the user interface. We also perform automatic scaling of video resolution to suit the bandwidth available to your phone. CatMobile easily enables you to connect to multiple sites wherever you may be in the world.





CatObserver

CatObserver is a feature that enables a selected viewing monitor to be configured as a "virtual camera" so that all the activity viewed on this computer screen is recorded. Advantages include easy archiving and access to all that an operator has viewed during an incident without having to archive or access multiple cameras' footage.



Map Interface

Cathexis's maps feature multi-layered, hierarchical, interactive interfaces. This provides representation, and control, of a site and its resources. These resources include cameras, input/output devices, access control doors, alarm/fire panel points, and more, all displayed on a graphical interface. The map also provides the ability to represent, and control, preset PTZ dome positions from the GUI; drag-and-drop cameras from the map to selected monitors; control selected integrated third party systems.



Video Analytics

CathexisVision provides its own analytics suite as well as the facility to integrate on-camera (Edge) analytics. Algorithms provided by Cathexis include a multi-zone "SMART" learning motion detection algorithm, abandoned or removed object detection, loitering, speed, direction, line crossing, queue length analysis and object counting. Our user friendly interface allows you to easily configure the algorithms, using both live and recorded video footage.



Diagnostics

CathexisVision has an extremely powerful diagnostics suite. Apart from our already powerful "health monitoring", we provide tools to assist the installers to analyse the whole system environment, both in real time and historically. Monitoring such parameters as network camera video streaming performance, recording bitrates, live viewing statistics, and network throughput, enables our partners to easily troubleshoot problems on-site. This provides real intelligence on the technical integrity of the solution.



Health Monitoring

We regard system "up-time" as paramount. The Cathexis Health Manager provides real-time analysis of the system and can be configured to send alarms to selected recipients if problems are detected. Camera failures, hard drive analysis, environmental conditions, communication integrity, software errors, and many more parameters are monitored to provide peace of mind. The software also provides full reporting capability to enable you to generate system status reports.



Failover

CathexisVision provides complete redundancy by way of its elegant failover feature. This ensures that if any recording and video management server fails on a site, a "failover server" will automatically perform the tasks of the failed server. To add to this, when the failed server is replaced, all configuration and recorded footage will be automatically ported back to the replacement server. This ensures that your site runs seamlessly through the whole process.



Upgradeable Architecture

The architecture of the CathexisVision software provides clients with the flexibility to upgrade and expand their system or add features whenever necessary. So, whether the camera population needs to expand, the recording servers need to increase, or more features are required, the CathexisVision solution is easily upgradable to meet the new demands.



CathexisVision Package Comparison

- Feature included
- Available with license

Features	LITE	CORE	PROFESSIONAL	PREMIUM
	Single server package	Single server product	Medium to large site	WAN/large site
Upgradeable (to higher package)	–	•	•	•
CAMERA AND SERVER LIMITS				
Max IP cameras per site	24	36	150	Unlimited
Max recording servers per site	1	1	Unlimited	Unlimited
Max number cams per server	24	36	Unlimited **	Unlimited **
NETWORK CAMERA SUPPORT				
MJPEG, H.264 and MXPEG support	•	•	•	•
ONVIF support	•	•	•	•
Multiple video streaming (per camera)	•	•	•	•
Multicast support	•	•	•	•
UPnP support	•	•	•	•
Audio and I/O support	•	•	•	•
Fisheye de-warping	•	•	•	•
Edge analytics support	•	•	•	•
CLIENT CONNECTIONS				
Max Simultaneous connections (Including Local)	3	7	10	Unlimited
Viewing Client	•	•	•	•
Setup client	•	•	•	•
Mobile Client support	•	•	•	•
AUDIO				
Audio recording	•	•	•	•
Audio bi-directional	•	•	•	•
VIDEO ANALYTICS				
Basic VMD	•	•	•	•
Cathexis SMART Motion Detection	○	○	•	•
Video Analytics add-ons	○	○	○	○
STORAGE				
Local Storage (On Recording Server)	•	•	•	•
NAS Storage support	•	•	•	•
EVENT TRIGGERS				
Input Event Triggers	•	•	•	•
VMD Event Trigger (Local VMD)	•	•	•	•
Camera VMD Event Trigger (Edge VMD)	•	•	•	•
Third Party System Event Triggers	○	○	○	○
Technical Alarm Triggers	•	•	•	•
EVENT ACTIONS				
Record pre-and post-events	•	•	•	•
I/O output control	•	•	•	•
Send SMS and Email	–	•	•	•
Send Alarm/Event to Alarm Management Gateway	–	•	•	•
Virtual Matrix Control	•	•	•	•
Play Audio clip	•	•	•	•
PTZ - move to preset location on event trigger	–	•	•	•
Send Technical alarms to Alarm Gateway	•	•	•	•
ANPR (AUTOMATIC NUMBER PLATE RECOGNITION)				
Low Speed (Parking)	•	•	•	•
High Speed	•	•	•	•
INTEGRATION				
Integration with third party systems	○	○	○	○
Interactive and metadatabase	•	•	•	•
API Integration	•	•	•	•
VIDEO WALL				
Virtual Matrix Monitors	Unlimited	Unlimited	Unlimited	Unlimited
Number of simultaneous video streams	Unlimited	Unlimited	Unlimited	Unlimited
Playback of video on matrix monitors	○	○	○	○
Mimic Panel Matrix Control	○	○	○	○
Camera and layout tours	○	○	○	○
Automatic camera and layout switching on events	○	○	○	○
CATOBSERVER (MONITOR RECORDING)				
CatObserver (Monitor Recording)	○	○	○	○
ALARM GATEWAY INTEGRATION				
Technical Alarms	•	•	•	•
Event Alarms	–	•	•	•
Alarm Escalation and tracking	•	•	•	•
MAP SUPPORT				
Site map support (license to allow any viewing user to use maps)	○	○	○	○
Client map support (maps on the remote viewing client)	○	○	○	○
FAILOVER				
Redundant failover server/s support	–	–	○	○
REPORTING				
System health reports	•	•	•	•
Customizable management reports	–	–	•	•
USER MANAGEMENT				
Access rights Control	•	•	•	•
User logs	•	•	•	•

+ - Hardware dependant

* - Available from CathexisVision 2016



Cathexis products are used in many regions around the globe, including Europe, The United Kingdom, Australia, India, USA, Africa, South Africa and The Middle East. We have provided solutions for many market verticals, including Retail, Mining, Commercial, Manufacturing, Government, Transport, Healthcare, Logistics, Banking and many others.

Our solutions are spreading into new regions at an ever increasing rate, so if you would like to find out more about our products, or would like to get in touch with a Distributor or Installer in your area, please contact us through one of our offices listed below:

Head Office

www.cathexisvideo.com
info@cathexisvideo.com
Phone: +27 31 2400800

259 Montpelier Rd
Morningside
Durban
South Africa, 4001

Cathexis Europe

www.cathexiseu.com
info@cathexiseu.com
Phone: +44 845 257 7277

Cathexis Africa

www.cathexisvideo.com
info@cathexisvideo.com
Phone: +27 31 2400800

Cathexis Middle East

www.cathexisvideo.com
infome@cathexisvideo.com
Phone: +971 4 378 9000