



CITY SURVEILLANCE

Powerful Surveillance Solutions for Cities



Cathexis is an electronic and software systems development, and manufacturing company, specialising in video surveillance solutions, for the international market. Its flagship software suite, CathexisVision provides a powerful IP Video Management Solution with an extensive range of options, tools and functionality to satisfy all security and infrastructure management requirements.

The CathexisVision City Surveillance solution offers a dynamic method of monitoring extensive areas and tracking any events in real-time. CathexisVision ensures that law enforcement, governments and municipalities are able to respond proactively to any incidents and events as they arise, ensuring the safety of both citizens and assets.

CathexisVision Features

The CathexisVision IP Video Management Software provides the surveillance solutions that meet the high security demands required for these environments through the following features:

- Multi-Tier System Management
- I.P and Analogue CCTV Hybrid Solutions
- Megapixel Camera support
- Smart Video Analytics
- Unlimited Scalability
- Remote and Multiple Site Management Capability
- Centralised Alarm Management
- Sophisticated Health Monitoring
- Video and Audio Monitoring
- Third Party Integration
- Sophisticated Health Monitoring

Meeting City Surveillance Requirements

- Multiple Video Streaming for IP cameras
- Video Transcoding to support low bandwidth
- Complete Control Room Multi-Site Environment
- Centralised Alarm Management
- Remote Health Monitoring
- Bi-Directional Audio

City Surveillance Requirements

- The ability to monitor thousands of cameras across a wide geographical spread
- High level control room environment
- Flexibility and scalability to accommodate layout changes and expansion
- Capability to access recordings at a moment's notice
- Ability to activate an immediate response to alarms

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City Surveillance Solutions that go beyond Surveillance

For City Surveillance, the CathexisVision open platform allows for a customisable solution that meets the demands of different applications, including security, traffic flow, as well as emergency services management.

Video Analytics

Cathexis offers a range of video analytics to improve the effectiveness of the system, including:

- Analytics on Vehicle Movement and Parking
- Traffic Analysis
- Human Behaviour Analysis
- Smart Video Motion Detection
- Abandoned Object Analysis
- Post Object Search

The system also integrates with several specialised analytics devices. The analytics software provides triggers to the system. This enables it to take user-defined actions depending on the specific trigger received, including:

- Notify a control room gateway
- Move PTZ camera to preset position
- Send an alarm to a selected recipient
- Send an SMS or email
- Switch selected cameras to selected monitors
- Switch a device on or off

Interactive Graphical Interface

The interactive user interface provides a visual representation of single or multiple sites. Operators can navigate through multiple layers of maps to selected sites, drag-and-drop cameras to selected monitors, control outputs, and move PTZ cameras. Users can also navigate multiple sites throughout the enterprise with the map facility.

Health Monitoring

The Cathexis solution provides continuous monitoring of all the components, including hardware and software integrity, providing automated warnings of any possible impending failure. Maintenance engineers can perform corrective maintenance before the system fails.

Integration

One of the major differentiating features of Cathexis, is the capability to integrate various third-party systems. Integration is enhanced by predetermined actions upon information received from various systems and the association of specific actions for events. Third-party systems integration, includes:

- IP Cameras
- Access and Intruder Control
- Fire Panels
- Alarm Panels
- Environmental Mangement
- License Plate Recognition
- Legacy Integrations

Disclaimer: While Cathexis has made every effort to ensure the accuracy of this document, there is no guarantee of accuracy, neither explicit, nor implied. Specifications are subject to change without notice.

