

CITY SURVEILLANCE



City governments face the challenge of reassuring citizens and businesses by preventing and minimizing potential threats. These include vandalism, burglary, and all other forms of crime. There is also a need to ensure efficient processes in everyday public life, for instance managing traffic and crises. Governmental bodies are therefore embracing advanced technologies for enhancing security and safety as efficiently and reliably as possible. There are also user-friendly, intelligent systems that are easily integrated with multiple other systems, such as those that link and coordinate the responses of police, fire departments, and hospitals to accidents or natural disasters.

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

High standards of security, safety, and communication in metropolitan environments can be maintained as per below:



Deter and Detect Illicit Transactions in City Centers and High-Crime Areas:

Visible CCTV cameras installed in vulnerable areas have proved to be effective deterrents. Illegal activities such as drug dealing, street violence, and vandalism diminish sharply when police forces are supported by surveillance technologies.

Changing or poor light conditions, both indoors and outdoors, pose particular challenges. To produce usable images, there is a need for high-quality cameras with advanced features such as high sensitivity, a wide dynamic range, and night vision using thermal or infrared technologies.

Monitor crowds

Wherever crowds gather – at tourist sights, public transportation facilities, stadiums, street demonstrations, etc. – video surveillance can help authorities quickly detect potential threats.

An intelligent user interface ensures that operators know exactly where an incident occurs, also helping them pinpoint the locations of cameras in use by displaying the captured images on maps. Automated virtual guard tours can monitor critical areas by

periodically sequencing through multiple cameras. Complete flexibility in configuring monitors lets operators focus their attention on the right spots at the right times.

Fight crime

Fixed cameras can be supplemented by moving cameras for real-time monitoring. They are controlled by an operator via a joystick or workstation. Advanced signal encoding and transmission technologies minimize delays to ensure immediate operator responses.

Storage capabilities are also essential for follow-up investigations, requiring video footage to be kept for varying periods of time. This calls for video compression and recording technologies, as well as the ability to scale the storage capacity to meet different needs. Especially when sensitive data are involved, resilience, redundancy, and protection are very important.

Monitor Traffic Flows

Cameras can also help mitigate congestion by collecting data on traffic patterns. This information can then be used to reprogram traffic lights and improve traffic flows.

IP video streams can be transmitted over wired or wireless networks, so all of a city's surveillance cameras can be easily monitored from a single operations center. The low bandwidth and advanced networking capabilities of IP cameras additionally facilitate this.

Catch Traffic Offenders

License plate cameras capture details at any time of the day or night, even on vehicles moving at high speed and in any weather or ambient lighting conditions. Intelligent Video Analysis supports operators by triggering an alarm when an individual or vehicle enters a prohibited area or behaves suspiciously. It can also greatly reduce the time required to search video footage.

Adapt to Extreme Conditions

When a natural or human-caused disaster occurs – such as a tornado, flood, or earthquake – video surveillance can deliver invaluable information to help assess damage, locate injured people, coordinate rescue units, and identify criminal acts such as looting.

Optimizing port security – protecting valuable goods

Harbor security is not only about protecting the great amount of valuable goods that pass the premises every day. It is also about protecting the harbor as a part of the critical infrastructure.

IP-based surveillance system is used to handle everyday business in a more efficient way. Examples include:

- Remote monitoring of container identification numbers, rail car number and other data, which was earlier inspected by foot
- Remote inspections for container and cargo damage
- Improved staff training, based on real life incidents and live scenarios

Airport security solutions:

Airports face considerable security challenges, and managers must handle multiple roles. Airports must therefore meet incredibly demanding criteria with regards to security, safety, communications, and building automation.

Managing these challenges is a daunting task, as many different areas need to be monitored: perimeters, parking structures, terminals and other passenger facilities, aprons, airfields, shops, restaurants, and the like. Public address and voice alarm, intelligent video, and fire solutions help airports master these security, safety, and communication challenges.

Video analysis to detect suspicious activity

Unusual or abnormal behavior can indicate a preliminary stage of criminal activity or other serious situations. To prevent such events, it is important to recognize suspicious activity in advance and monitor the individuals concerned. Intelligent security cameras continually evaluate real-time footage, and if necessary, alert security personnel.

Airport queue management

A video-based solution identifies the number of people waiting at each checkpoint entrance and calculates the average waiting time, which can be displayed to passengers. As a result, people can choose a line based on current waiting times, leading to less queuing.

Airfield Safety

Smart video solutions provide operators with augmented reality information, such as gate numbers or building names, that improves their situational awareness. Cameras constantly scan the runway and follow objects automatically, monitoring planes from landing to their next takeoff. Cameras with an overview of the airfield use a low-resolution stream but switch to high resolution when zooming in to provide fine details to the operator's screen. High quality camera images can be stitched together to cover large open areas at the apron, taxiway, or runway.

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• 24/7 response
• 24/7 maintenance

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