

Video security solutions for
Safe & Smart Cities

SMART SOLUTIONS FOR MUNICIPALITIES AND GOVERNMENT FACILITIES



The World's *Sixth Sense*®

IP-BASED VIDEO SURVEILLANCE FOR SMART CITIES

From major urban areas to smaller municipalities, cities increasingly rely on video surveillance to enhance public safety and security. FLIR's solutions for Smart Cities deliver high-definition video surveillance, automated threat detection, and real-time video verification for cities seeking enhanced situational awareness and faster, more appropriate response.

FLIR's comprehensive family of video solutions encompasses a wide range of fixed, dome and pan-tilt-zoom (PTZ) visible light and thermal cameras that provide exceptional clarity and outstanding performance. IP-based video management and analytics products integrate seamlessly with other data-driven applications to Smart Cities, helping to achieve a truly integrated safety and security Eco-system. FLIR's solutions allow for reduced total cost of ownership through the transition of legacy infrastructure to cost effective IP based framework, with HD quality video and two-way audio solutions that can be transmitted over both analog coax and IP-based networks.

▪ **City-Wide Surveillance**

FLIR's cameras install quickly and easily, automatically locating centralized network video recording resources across the city. Thermal imaging for nighttime and inclement weather supplements visible light operations for scalable solutions ranging from individual facilities to widespread metropolitan areas.

▪ **Fast, Accurate Intrusion Detection**

FLIR enhances perimeter and interior protection for buildings and facilities through advanced analytics and real-time video verification that all but eliminate false alarms. Two-way audio gives staff the ability to challenge potential intruders at the point and time of entry without the need to dispatch first responders until the severity of the threat is understood.

▪ **Centralized Management**

FLIR's IP-based cameras and network video recorders connect automatically and can be configured and managed remotely, greatly simplifying installation and ongoing operations. Stored video can be viewed within security operations centers, or wirelessly across the Cloud from authorized laptops, tablets and smartphones.



CITY SURVEILLANCE

- **Day/Night HD video coverage**, including inclement weather, using both visible light and thermal camera technology
- **Remote connection, configuration and control** for cameras, for faster installation and configuration with minimal need for ongoing on-site maintenance
- **Cost-effective bridge from analog to digital infrastructure**, using IP-based cameras that deliver HD quality and two-way audio over both coax and IP infrastructure
- **Flexible, centrally managed video recording, indexing and retrieval** that scales from local installations to city-wide deployment
- **IP-based digital design** that integrates seamlessly with other open systems-based Smart Cities safety and security applications

PUBLIC AREAS

- **Wide range of fixed, dome and PTZ cameras** for broad coverage of indoor and outdoor public areas
- **Day/Night HD video coverage**, including inclement weather, using both visible light and thermal camera technology
- **Remote connection, configuration and control** for cameras, for faster installation and configuration with minimal need for ongoing on-site maintenance
- **Works across long cable runs**, enabling cameras to be located farther from centralized resources without loss of quality
- **Flexible, centrally managed video recording, indexing and retrieval** that supports both real-time analytics for active threat identification and forensic storage for evidentiary requirements

GOVERNMENT BUILDINGS

- **Day/Night HD video coverage**, including inclement weather, using both visible light and thermal camera technology
- **Advanced analytics and two-way audio for real-time video verification** that helps determine threat severity in advance of dispatching first responders and eliminates false alarms
- **Wide range of fixed, dome and PTZ cameras** for broad coverage of indoor and outdoor public areas, as well as secured areas with limited access
- **Flexible, centrally managed video recording, indexing and retrieval** for centralized operations across multiple facilities
- **Cost-effective bridge from analog to digital infrastructure**, using IP-based cameras that deliver HD quality and two-way audio over both coax and IP infrastructure

CORRECTIONAL FACILITIES

- **Hardened cameras and other equipment** designed to operate under extreme conditions, both indoors and out
- **Day/Night HD video coverage**, including inclement weather, using both visible light and thermal camera technology
- **Remote connection, configuration and control** for cameras, which minimizes the need for staff to have to enter prisoner areas to configure and operate equipment
- **Flexible, centrally managed video recording, indexing and retrieval** that supports both real-time analytics for active threat identification and forensic storage for evidentiary requirements
- **Works across long cable runs**, enabling cameras to be located farther from centralized command and control centers without loss of quality



End-to-end solution

Smart Cities programs use technology to improve operations across traffic, planning, utilities operations, and safety and security. These initiatives require IP-based infrastructure, as well as software applications that provide the data necessary to discover opportunities for improvement. FLIR supports Smart Cities deployments through high-performance visible light and thermal imaging solutions that operate on digital networks, as well as provide operations on older analog infrastructure. Data-driven analytics, video storage, and metadata collection supplement broader Smart Cities efforts, helping ensure that city planners and security professionals gain the visibility they need to manage limited staff and resources more effectively.

Open platform for complete integration

FLIR focuses on flexible open platform solutions, developing custom applications that seamlessly integrate with third-party products to ensure the highest levels of interoperability and performance. Imagine a city where citizens live without concerns about safety, a place with secure neighborhoods, where police and other first responders – faced with dangerous or hazardous situations – use the latest technologies to make smart decisions in real-time. FLIR’s video innovation does just that.

Reliable detection with low false alarm rate

Thermal cameras from FLIR combine best-in-class thermal image detail and high-performance analytics to deliver optimal intrusion detection in challenging imaging environments. FLIR cameras are easy to set up and capable of classifying human or vehicular intrusions with low false alarm rates.

Cyber defense layer to prevent unauthorized access and misuse of data

Privacy concerns and administrative policies are fully addressed with advanced technologies and revolutionary concepts. Programmable logic interface allows functionality modifications based on the required Concept of Operations.

Widest range of thermal and visible products

FLIR’s thermal and visible security cameras have true 24-hour video surveillance capability. FLIR thermal cameras detect intruders from much greater distances, giving security forces more time to react and respond. Coupled with FLIR’s visual and infrared illuminated cameras and video management systems, you’ll have an interlocking web of video tools for intrusion detection, alarm verification, and evidence gathering that is all but unbeatable.

SOLUTION COMPONENTS	
<i>Cameras</i>	
FC-Series and ioi HD & thermal	Securing critical assets and government buildings with thermal imaging cameras combined with video analytics.
FLIR IP Visible Light, Quasar 4K & Quad HD cameras	IP-based HD visible light surveillance cameras that allow for wide area street surveillance with evidentiary class details.
FLIR PTZ cameras, Quasar HD PTZ	PTZ cameras for covering intersections and large common spaces.
<i>Video Management</i>	
United VMS	Enterprise grade video monitoring and management system deploying surveillance operations across the city. Under the United VMS platform Latitude can connect in real-time to multiple Horizon & Meridian NVR entities in the event of a local incident.
United VMS Web Client	Sleek and efficient interface deployed locally or remotely, allowing for effortless deployment, simple user experience, and touch screen optimized.
IP-MMUNE Cyber Defense Platform	Multilayer protection suite providing effective protection to cameras, VMS servers, client workstations and other surveillance devices, by utilizing various technologies including, network, authentication, video encryption, antimalware protection and more.
<i>Integrations</i>	
Gunshot Detection System	Gunshot alert and location technology covering wide areas with collaborative sensors that triangulate the precise location anywhere within a designated coverage area. The gunshot location is marked on a Google Earth map, and PTZ cameras in the vicinity are automatically directed to the incident location and displayed to the operator in the control.
License Plate Recognition (LPR)	24/7 Real time reporting of vehicle data to the central management system allowing detection, classification and identification of suspected vehicles, and creating events and bookmark segments allowing to search for specific vehicles across the video archives.
TruWitness Personal Real-Time Device	Smart mobile devices widely spread across the city, providing full coverage and enhanced situational awareness for law enforcement, field agents and first responders <ul style="list-style-type: none"> • Body, head or in-vehicle mounting and complete modular design for flexibility and reduced TCO • High Definition video with image stabilization and human level, color, low-light performance • Centralized management and data store with automatic synchronization and device updates

**For more information visit our website:
www.flir.com/security**

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