

Video security solutions for

Industrial Perimeter Protection & Intrusion Detection

PROTECTING YOUR PEOPLE AND BUSINESS



The World's **Sixth Sense**®

VIDEO SECURITY FOR INDUSTRIAL PERIMETER PROTECTION AND INTRUSION DETECTION

Industrial facilities represent one of the toughest challenges for safety and security professionals. Physical plants that cover enormous areas, with many points of entry and extended perimeters. Complex, dangerous equipment that must be monitored for proper access and use. Buildings that have varying levels of access authorization. Extreme indoor and outdoor operating conditions.

FLIR's comprehensive family of industrial video solutions provides high-definition, high-performance video surveillance and threat verification for all of these needs. From tracking distant targets approaching a facility to detecting intruders as they attempt to breach the perimeter. When alerts need to be managed in a centralized control center or sent to a remote client. From live video streams sent from a security patrol to automated siren activation to remotely opening or closing a gate. FLIR has the video security solutions you need for managing industrial security events.

▪ **Perimeter Protection and Monitoring**

Monitor and protect your site perimeter 24/7 with thermal cameras from FLIR. Thermal imaging allows you to see your environment day and night and in the most difficult weather conditions.

▪ **Intrusion Detection**

Create a fully integrated perimeter security solution with FLIR cameras and video analytics, and enable accurate intrusion detection and instant visual alarm assessment while minimizing false alarms.

▪ **Enterprise-Wide Video Management**

Manage your video surveillance operations effectively and securely over IP networks with FLIR's cutting-edge Video Management System Solutions.

▪ **Video Recording**

Record and distribute security camera streams in high quality and quickly locate archived recordings for additional evaluation and analysis.



OIL & GAS

- 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
- Flexible, centrally managed video recording, indexing and retrieval that scales from local installations to enterprise-wide deployment
- Real-time video verification, including two-way audio, to validate the severity of a threat and to separate animal from human intrusion

MINING

- Hardened cameras and other equipment designed to operate under extreme conditions, both indoors and out
- Works across long cable runs, enabling cameras to be located farther from centralized command and control centers without loss of quality
- Real-time video verification, including two-way audio, to validate the severity of a threat and eliminate false alarms prior to dispatching first responders
- Remote connection, configuration and control for cameras, for faster installation and configuration with minimal need for ongoing on-site maintenance



MANUFACTURING

- Day/Night HD video coverage, including inclement weather, using both visible light and thermal camera technology
- Real-time video verification, including two-way audio, to validate the severity of a threat and eliminate false alarms prior to dispatching first responders
- 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 for centralized operations across multiple facilities



AUTOMOTIVE

- 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 to dispatch staff 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



FLIR'S INDUSTRIAL SOLUTIONS DELIVER END-TO-END VIDEO SURVEILLANCE FOR MANUFACTURING, REFINING, AND SIMILAR FACILITIES. THESE LARGE, HIGHLY COMPLEX PLANTS PRESENT A VARIETY OF SECURITY CHALLENGES:

- Extended perimeter areas
- Multiple levels of internal restricted access areas
- Variable ingress/egress traffic patterns
- Animal vs. human incursion
- Multiple remote facilities needing central management

FLIR's combination of visible light and thermal cameras, video analytics, video management systems (VMS) and streamlined integration with other physical security solutions helps industrial security professionals address these areas of vulnerability through intelligent, cost-effective, video-driven solutions.

A complete product family

FLIR's security applications for industry represent a complete product family for facility perimeter, building exterior, and building interior coverage. Cameras support visible light and thermal imaging, with fixed, dome and pan-tilt-zoom (PTZ) options available for long-term, ruggedized performance. Cameras automatically link with FLIR network video recorders (NVRs) to simplify installation and configuration. Live and recorded video can be accessed through centralized operations centers, or remotely on laptops, tablets, and smartphones via easily configured, highly secured Cloud-based apps.

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.

Real-time video verification to eliminate false alarms

FLIR's cameras, NVRs, and VMS products offer two-way audio over both analog and digital networks. This powerful combination helps eliminate false alarms by giving operators the ability to see what is happening in real-time when an alert has been issued, and to then challenge any individuals located in unauthorized areas. FLIR's commitment to open systems standards means that this capability integrates easily with access control, fire, and other alarm systems, ensuring visual coverage across the facility, no matter what the type of alert.

Clear upgrade path from analog to IP-based digital infrastructure

Many of FLIR's HD cameras operate simultaneously on both analog and digital networks. This advanced capability works across the exceptionally long cable runs that are common in industrial facilities. Customers gain the advantages of HD surveillance without the expense and complication of replacing existing coax networks. Replacement with IP-based cabling can be done in phases, allowing for graduated, cost-effective upgrades to IP-based backbones over time.

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.

SOLUTION COMPONENTS	
<i>Cameras</i>	
FLIR F, FC-Series and PT-Series thermal cameras	Automated detection in fog, haze, smoke, low light, no light and other challenging environments. Thermal night vision cameras with on-board analytics with sophisticated detection of humans or vehicle intrusions. Multiple alarming notification options, including email, edge image storage, digital outputs or VMS alarms. Camera configuration via web, mobile apps or VMS. Simultaneous IP and analog video outputs.
FLIR HD Bullet cameras—HD broadcast-quality IP video coupled with video analytics	Superb outdoor video quality for reliable detection and identification. <ul style="list-style-type: none"> • Motorized lens choices • Auto calibration • Reliable detection of sophisticated intruders • Highly intuitive setup • True WDR • Supports ONVIF Profile S
<i>Video Recording</i>	
Meridian NVR Appliance	All-in-one simplified NVR with alarm handling. Easily scalable with central monitoring. Installation free, easy to use. Single unified client management for multiple NVRs. Supports ONVIF Profile S
<i>Video Management</i>	
United VMS	Enterprise grade video monitoring and management system.
SiteViewer remote monitoring solution	Server-free remote monitoring and alarm management through web-based viewer. Integrated with on-board storage (SoE), automatic notifications, PTZ tracking and alarm triggering. Doesn't require additional servers or storage on premises. Ideal for sites with low bandwidth availability. <ul style="list-style-type: none"> • Streaming of live and recorded video • Event triggering – actions, alarm based recording, email notifications, integration with 3rd party systems • Maps for full situational awareness
<i>Integrations</i>	
ioi PTZ Tracker – H.264 analytic encoder with automated PTZ target tracking	<ul style="list-style-type: none"> • PTZ tracking and analytics on presets • Hand-off from fixed camera to PTZ Tracker • On-board storage (SoE) with remote backup • Alarm input/output
Access Control	Delivers remote access to Meridian, enabling system control from any location.

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

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