inView™ Wide-Area Immersive Surveillance

The next generation of video surveillance

Look Everywhere, See Everything, All the Time™

iMove

The Next Generation of Video Surveillance is Here

inView takes wide-area surveillance to a level never seen before, delivering a “better than being there” view to protect your most valuable assets.

inView eliminates the confusing array of single camera views with an immersive view – the BIG picture. Operators can zoom and roam seamlessly through the uninterrupted immersive video with full instant replay of any incident. The result is faster, more effective decision making when timely response is critical.

You don't have to watch it all, inView sees and records it all. When you absolutely must know where they came from, how many there are, and where they are now, you can count on inView for the answers.

When You Absolutely Need to Know

- Where did they come from?
- How many are there?
- Were they with others?
- Where are they now?

inView Command Console

inView provides persistent surveillance of wide areas- the key to effective alarm assessment and response. inView continuously processes and records the entire immersive scene and provides fully automated response to intrusion alarms generated by inView Motion Detection or other electronic facility sensors.

Security personnel have all the critical information along with instant replay of pre-alarm events to support quick, effective assessment and reaction to any situation.

Multi-Spectral (Visible and IR) Sensor Display

Persistent Cost Effective Coverage

inView surveillance solutions reduce overall security infrastructure costs. inView sensors cover wide areas from a single site, limiting the poles, power and cabling expense. It would require over 25 CCTV cameras to match the coverage of one inView sensor.

iMove's immersive software engine employs the latest in digital broadband video and IP network platforms. It enables all aspects of immersive video capture, transport, processing and display of real-time multi-camera video streams in a wide-area immersive view.

inView solutions include a full range of advanced automation capabilities, such as motion detection and alarm response. The system interfaces with existing CCTV architecture and can be integrated with third party intelligent video applications.

An immersive sensor with eight high resolution mega-pixel cameras can be tailored with varying fields of view and positioned specific to site needs.

This inView sensor coverage diagram shows two 360° immersive sensors providing coverage of the Miraflores lock along the Panama Canal. The sensor coverage is uniquely configured to provide immersive coverage over 1,300 meters along and 100 meters across the lock, with resolution tailored to the surveillance and monitoring mission. The sensor outlines depict the coverage area for each of six cameras, showing the range for each camera out to a resolution of 15 vertical pixels on a man.

inView Solution Overview

inView sensors integrate, both electronically and mechanically, multiple digital high resolution IP cameras into a single immersive sensor head. The ability to tailor each field of view and pointing angle provides unparalleled capabilities for optimizing resolution, coverage footprint and operational performance for wide-area surveillance applications. Lens focal lengths are tailored to the range requirement for each pointing angle and the required field of view for continuous immersive coverage.

Sensor mounted on iMove pole with optional PTZ

Sensor configurations may be selected from predetermined models, or custom configurations may be produced for specific applications or locations. inView sensors can be integrated with optional PTZ cameras for enhanced threat assessment capability. In response to motion detection or other alarms, the PTZ automatically tracks the target to support effective threat assessment at long range.

iMove Sensor Management Consoles are designed around the WideView Sensor Displays to exploit the high-resolution immersive video capabilities of iMove's inView sensors. The key to effective utilization of the wide area panoramic images is the ability to display the imagery in a seamless and perspectively correct wide-view format.

inView consoles can be at distant, remote locations connected via a single GigE link, still offering full resolution and frame rate imagery along with complete functionality and sensor control. Multiple consoles, both local and remote, can simultaneously view the same immersive scene with independent control. iMove's ThinClient server now provides real-time access to inView immersive video from remote displays over low bandwidth links, such as mobile PCs and cell phones.

inView is built on an enterprise class IT architecture. Telecom grade network equipment and server class compute equipment along with network attached RAID disk arrays support fully digital video acquisition, transport, processing and storage. inView racks utilize redundant power supplies and high-end UPS equipment to provide reliable and robust operation.

inView software is a distributed, scalable, multi-processor based architecture, built on the Red Hat Enterprise Linux Distribution. IP Multicast is used for immersive video distribution, supporting multi-console access to any sensor image stream. CORBA provides a robust distributed system communications protocol for system and alarm events.

Specifications

inView Immersive Sensor

- Up to 8 IP cameras per sensor
- Camera sizes: 2 MP, 3 MP, or 5 MP per camera
- Maximum total pixels per sensor: 30 MP
- Panoramic Field of View: Configurable up to full 360°
- Tailored coverage across Field of View with high resolution inserts
- Available Lens Fields of View (FOV): 16° - 150°
- Available with Color, Low light, Black/White or IR Cameras
- Multi-spectral Immersive Sensors - Visible & IR with matching coverage configurations
- Frame Rate: 7.5 frames per second
- Integrated High Resolution PTZ (Optional)
- Sensor Head Power: 120V, 5A
- Environmental: -20°C to 50°C
- Signal cables: 1 pair Single Mode Fibers (SMF-28) terminated with LC connectors
- Case: All aluminum, sealed for dust & rain
- Optical Windows: Heated for anti-fog and anti-ice, coated for moisture shedding
- Modular design for ease of service and logistics support

inView Sensor Management Console

- Wallmount Sensor Display (SD): (4.1M pix) 3840x1080
- Desktop Sensor Display (SD): (3.8M pix) 3200x1600
- Management Display (MD): (1.9M pix) 1600x1200
- SD Controls: Video Controller with Trackball, Zoomwheel & PTZ Joystick
- MD Controls: Mouse & Keyboard
- Console Power Requirements: 120V AC @ 30 amps
- Environmental: Office Environment
- Desktop Size: 8ft x 32in.
- Real-time Thin Client distribution - low bandwidth links; laptop or cell phone displays

Intrusion Detection (optional)

- Automated Motion-based Intrusion Detection
- Detection Threshold: 15 pixels on 1.5m Man
- Detection Ranges for Lens FOVs (perpendicular target): 90°-100m, 60°-170m, 40°-260m, 20°-500m
- Guard Zone Management: Create, Delete, Activate & Suppress
- Provides automated PTZ pointing and tracking of motion detection targets

System Processing, Bandwidth & Storage

- Scalable Architecture – GigE backbone
- Realtime Storage Loop: Configurable (typ 48 hours - 2weeks)
- Incident Archive: Configurable (typ ~100 hours)
- Export incidents for remote archive and/or viewing on Windows PC

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