

SPRING
2022

i-PRO
The Power of Truth

PRODUCT
APPLICATIONS

i-PRO

The Power of Truth

i-PRO Americas Inc. was established on October 1, 2019, to provide comprehensive professional Security Surveillance, Public Safety and Medical Imaging solutions. Built on a history of innovation that spans over 60 years with Panasonic, we continue to expand our portfolio with advanced AI-driven software solutions to complement our renowned line of best-in-class imaging technologies and edge products.

Panasonic Legacy

Over 60 years of innovation
Global sales network
Leadership in quality

i-PRO Originality

Open partnership
Quick and reliable
Specialized in sensing solution



i-PRO AMERICAS INC.

i-PRO provides industry-leading solutions to capture, record, manage, and analyze surveillance video. We offer a comprehensive lineup of video surveillance products and solutions with the highest image quality, mission-critical reliability and the lowest total cost of ownership in the industry. Our goal at i-PRO is simple: to make your life easier. We have re-engineered our hardware and software into a plug-and-play platform that delivers enhanced point-to-point data security and enterprise-level management all wrapped in powerful, intuitive applications.

KEY OFFERINGS BY i-PRO PRODUCTS

RELIABILITY

More than just meeting industry standards

DATA SECURITY

Preparing for the threat of cyber attacks

DATA COMPRESSION

Reduced load of network and data storage cost

DATA ANALYTICS

Efficient reduction of system load by edge and cloud

IMAGE QUALITY

Capturing evidence under extreme environment

WHY WORK WITH US?

We provide industry-leading solutions to capture, record, manage, and analyze surveillance video. We offer a complete comprehensive lineup of video surveillance products and solutions with the highest image quality, mission-critical reliability, and the lowest total cost of ownership in the industry.

Our goal is simple: to make your life easier. We have reengineered our hardware and software into a plug-and-play platform that delivers enhanced point-to-point data security and enterprise level management wrapped in powerful, intuitive applications.



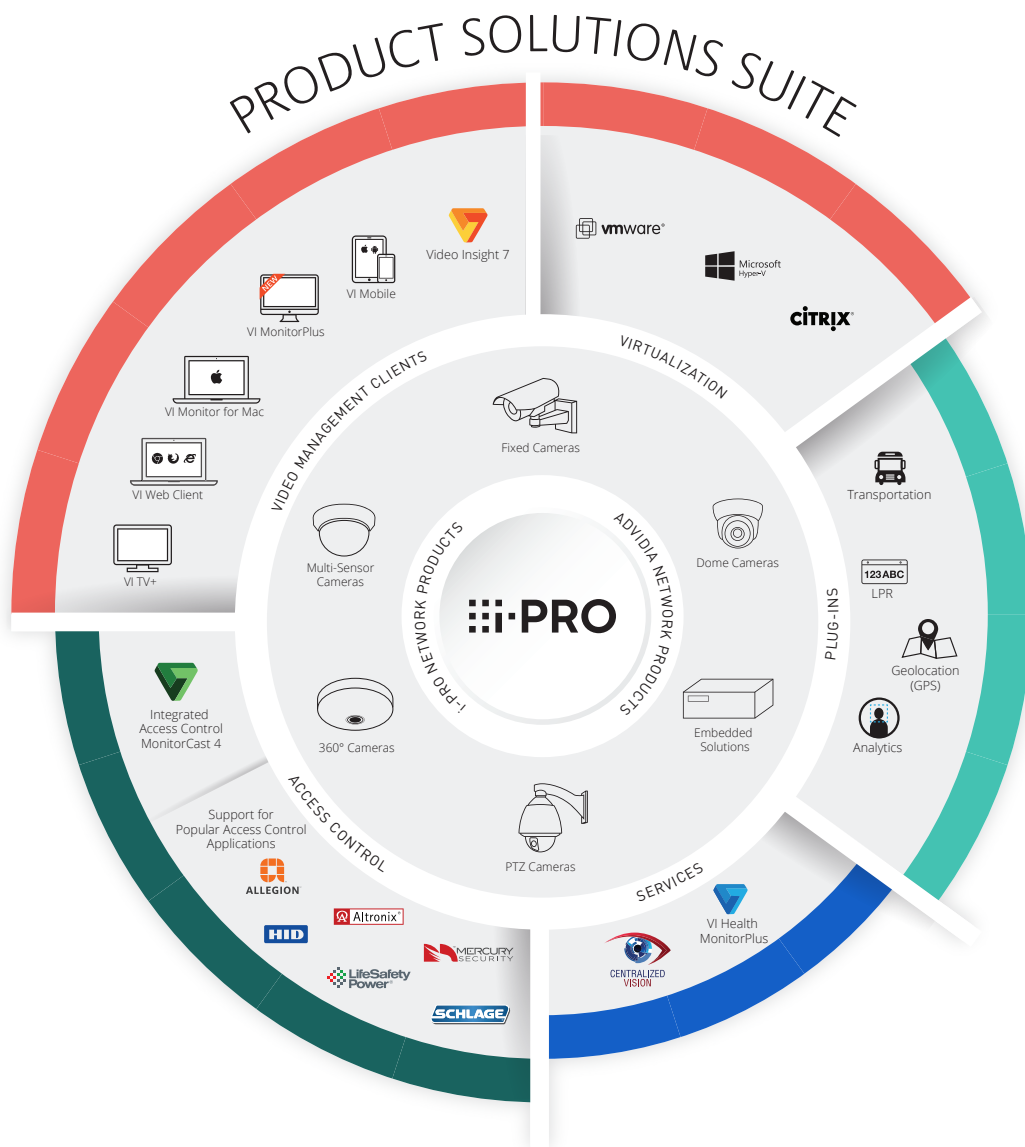
5-year warranty
All New i-PRO Extreme cameras and NX Series recorder come with 5-year warranty.



Video Insight
i-PRO cameras come bundled with Video insight VMS license.



Priority Advanced Exchange
Receive advanced replacement units shipped the same day with overnight delivery.





VIDEO INSIGHT

Video Insight (VI) is a powerful, yet easy-to-use, enterprise video management platform. VI enables organizations in all industries the ability to deploy a highly customizable, analytics-driven security surveillance ecosystem, while maintaining one of the lowest total costs of ownerships (TCO) on the market.

The highly flexible VI solution can quickly conform to almost any site's unique requirements via its plug-in architecture. Through this architecture, users can quickly deploy new capabilities on demand, such as licensed plate recognition (LPR), thermal thermography, vehicle-based surveillance and more, all under one easy-to-learn user interface (UI).



CLIENTS



VI MonitorPlus



VI Web Client



VI Monitor for Mac



VI Mobile



VI TV+



i-PRO Active Guard



Health MonitorPlus



VI Video WallPlus

UNPARALLELED BENEFITS WITH THE NEW VIDEO INSIGHT!

Lower Total Cost of Ownership

Affordability, flexibility and a simple licensing model are what sets VI apart from the rest. We provide the most cost-effective enterprise class VMS solution on the market.

The Enterprise VMS Features You Love

The Video Insight VMS has a wide range of robust features you'd expect to find in enterprise-level software. Health Monitor, automated failover, unlimited base client/user seats, active directory/LDAP integration and powerful analytics are included.

Scale Your Systems Not Your Limitations

Video Insight's pure 64-bit platform supports an industry-leading number of cameras per server allowing for high scalability. Also, through unlimited access to base viewing and management clients, users of VI can easily expand their site awareness. Furthermore, whether a user wants to integrate VI with their legacy hardware, or even i-PRO's own ASM-based embedded recorders, VI's open architecture makes that possible by allowing for centralized administration, viewing and management through one easy-to-learn UI.

World-Class U.S.-Based Support

i-PRO prides itself on being able to assist you in your time of need in a timely manner with a call or email into our local U.S.-based support center. No matter if it's software or hardware related, we will take care of you.

Wide Range of Supported Cameras

Being an open platform, VI supports over 5,000 camera models from more than 150 manufacturers.

Hardware Software Bundling

Users of i-PRO and Advidia camera hardware and VI server hardware do not require any Video Insight VMS licensing. Users of our new i-PRO AI-enabled cameras have access to our powerful muti-AI plug-in at no cost.

Competitive Upgrade Program

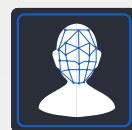
The Competitive Upgrade Program allows you to transition away from your current enterprise VMS solution to VI at a fraction of the cost. CUP allows you to retain your hardware investments while lowering your TCO.

Making the Most of Existing Legacy Systems

VI easily integrates with most existing systems, whether it is access control, legacy IP cameras, or building management, our robust software development kit and application programming interface make it easy to maintain a single interface to manage them all under one umbrella.

PLUG-INS MODULE

New plug-in architecture enhances the capability of VI, adds greater scalability and improves feature sets. New plug-ins include, i-PRO Active Guard (Multi-Ai), vehicle geolocation/tracking, LPR, visual weapon detection, gunshot location detection, thermal thermography and more.



i-PRO Active Guard (Multi-Ai)



Transportation



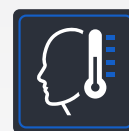
License Plate Recognition¹



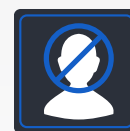
Gun Shot Location Detection²



Vape Detection³



Thermal Plug-in



Redaction

1- Integration with Vaxtor Edge ALPR (7.9)

2- Integration with Databuoy Shotpoint

3- Integration with IPVideo Corporation

KEY FEATURES

Streamlined Client (VI MonitorPlus)

With an intuitive UI, Video Insight's main viewing and management client empowers its users with great functionality, customization, and control, all while striving to maximize efficiency.

Natively Integrated Access Control (MonitorCast)

MonitorCast is an enterprise access control application that is fully integrated with VI. The two platforms work together seamlessly, forming a unified security and access solution. MonitorCast is easy to use, highly expandable, includes a browser-based management UI, rules manager, real-time reporting and is fully integrated with active directory.

Expanded Functionality via New Plug-in Architecture

Video Insight's plug-in based architecture allows users to expand the functionality of their surveillance system with features designed to meet challenges specifically faced in their vertical.

Live Mapping

With its new live mapping functionality, Video Insight users can now plot their multi-layered facility layouts, along with their external mounted cameras, on a geolocation-based mapping interface. Through this interface, users can also view and immediately respond to critical events via built-in alarm panels that can drastically lower response times to emergency situations (beta release VI 7.9 and full release VI 7.9.1).

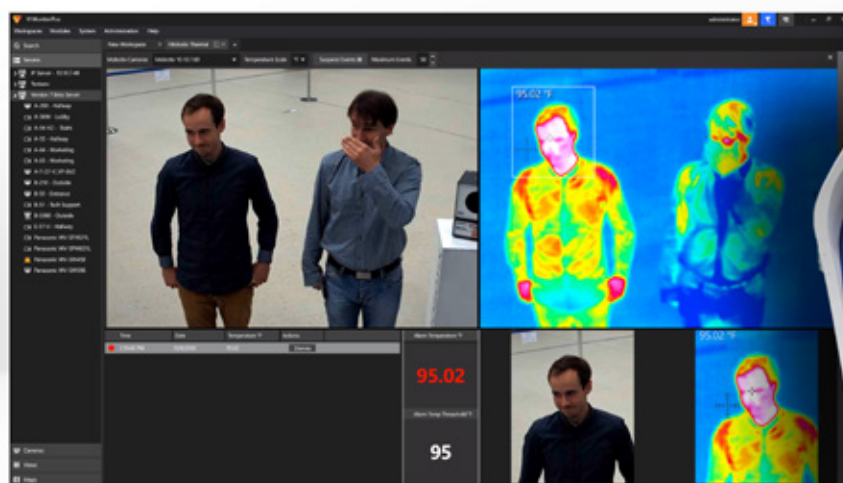
MOBOTIX THERMAL CAMERAS WITH VIDEO INSIGHT FUNCTIONALITY

i-PRO introduces the MOBOTIX M16/S16 thermal cameras with Video Insight's plug-in thermal feature functionality. With so much focus on maintaining the health of those entering businesses, schools, retail stores and other public facilities, this solution allows you to take the proper safety precautions for your staff and guests. Using the combined functionalities of MOBOTIX and Video Insight, an alarm is triggered when the pre-set temperature threshold is detected. Additionally, you can define up to 40 regions of interest to set up temperature readings, edit the temperature threshold and review detailed thermal readings at any time.

For health and safety that is a step above, the right choice is MOBOTIX and Video Insight.

KEY FEATURES

- Ability to pre-set temperature threshold
- Live and thermal views
- Celsius or Fahrenheit temperature settings
- Event alarm is triggered when threshold is detected
- Define up to 40 regions of interest for temperature readings
- Ability to review detailed thermal readings



REMOTE GUARD SOLUTIONS

TOA IP HORN SPEAKER BUNDLED WITH VIDEO INSIGHT LICENSE

i-PRO introduces the TOA IP horn speaker with Video Insight's voice down feature.

It plugs right into standard IP networks and can be easily integrated with Video Insight VMS. The IP horn speaker broadcasts crystal clear pre-recorded voice messages or live speech announcements, manually or automatically triggered by video analytics alarm.

The connection of the IP horn speaker with PoE+ enables the integrated 15W amplifier to broadcast excellent sound quality at a very high sound pressure level over long distances.

Adapt the individual volume to the environmental noise level and optimize it to time of day, distance, and degree of emergency.

KEY FEATURES

- VI license bundled
 - Max. SPL 124dB at 15W powered with PoE+
 - Up to 20 sound sources can be pre-recorded
 - IP66 (Dust/Water Protection)
-



i-PRO'S REMOTE GUARD

Powered by Centralized Vision

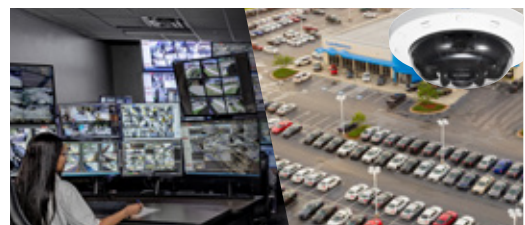
With crime increasing and budgets decreasing, Remote Guard allows businesses to monitor their property 24/7 with highly trained security professionals. It lowers the cost by remotely monitoring properties from one centralized location instead of paying for multiple guards to patrol multiple locations.

i-PRO's Remote Guard combines i-PRO's best-in-class imaging solutions and VI video platforms with Centralized Vision's cutting-edge live safety and security monitoring.

From residential to retail, dealerships to industrial, and medical to schools, i-PRO's Remote Guard has every business covered.

KEY FEATURES

- 24/7 Live Remote Pro-active Monitoring
 - Virtual Greeter / Concierge Services
 - Virtual Escort & Scout Ahead
 - Remote System Health Checks
-



IP SERVER



The IP Server is the hub of Video Insight communicating directly with cameras by requesting images, forwarding images to clients, and saving them for review. Video Insight runs on all Windows platforms including virtualized environments. The server can be configured as a standalone server supporting up to 400* cameras or as part of a group of servers providing a path for unlimited growth.

Key Benefits

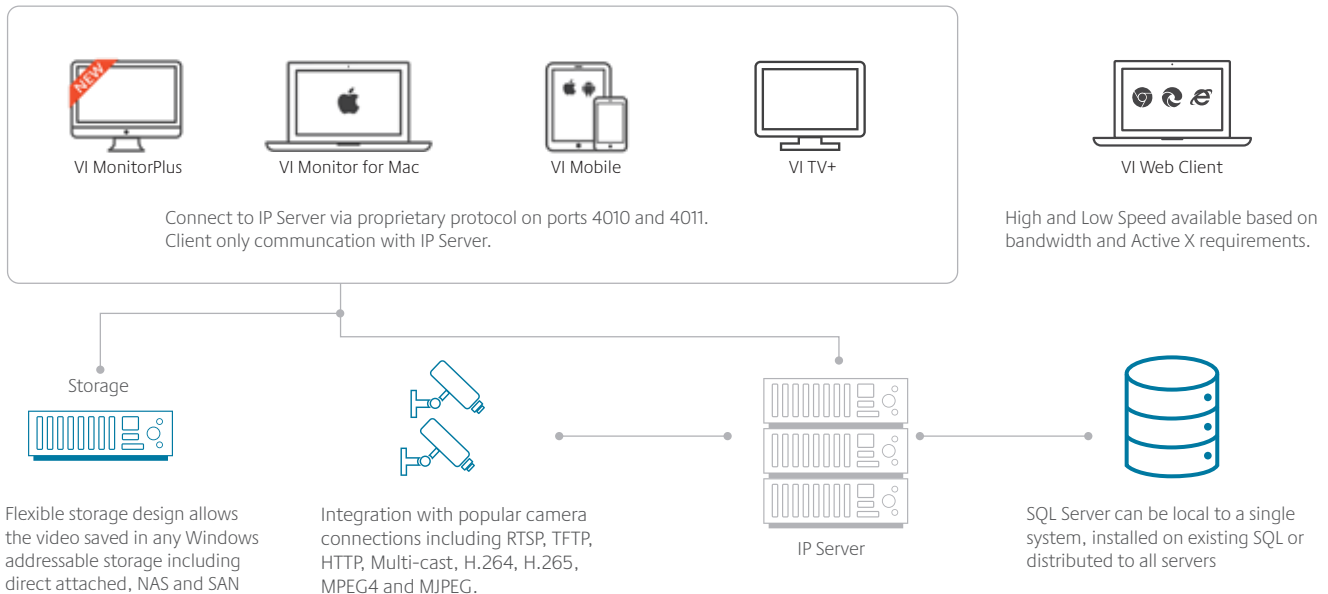
- Designed for large camera deployments – multi-server, multi-location
- Open Platform allows easy integration and is SQL Server based.
- Supports camera- and server-side motion detection
- Automated Failover Integrates with Active Directory users and groups.

Storage

- Support for a variety of storage options
- SAN Support
- NAS Support

NOTE: Preloaded Video Insight NVRs Include Enterprise Server License (IPSVSE-UL)

* Camera to server ratio is based on server specifications, & camera specifications. Please consult with an i-PRO System Engineer when designing a system.



VI HEALTH MONITORPLUS

NEVER MISS A SYSTEM FAILURE EVER AGAIN!

VI Health MonitorPlus is an on-premise monitoring application designed to offer visibility to your security platform, ensuring mission-critical infrastructure is always running at optimal conditions. It provides an easy to use interface, with real-time monitoring of resources, that alerts administrators of any issues and system failures.

FEATURES

Track Server and Camera Health Availability

VI Health MonitorPlus provides detailed information over the health of your site's cameras along with the CPU, Memory, and Storage usage of each server being monitored.

Receive Email Notification Alerts

In the event of inactive cameras or unresponsive servers, VI Health MonitorPlus will notify any designated user in real-time, alerting them about the issue, and minimizing downtimes.

Generate Customizable Reports

VI Health MonitorPlus provides its users with the ability to generate Audit Reports based on date ranges, allowing users to quickly identify trouble spots.

Scalable Monitoring

Due to its unique architecture, VI Health MonitorPlus can grow and scale based on your needs, no matter the configuration.

Accessible anytime, anywhere

No matter where you are, you can keep tabs on the health and status of multiple sites through any major web browser of your choice.

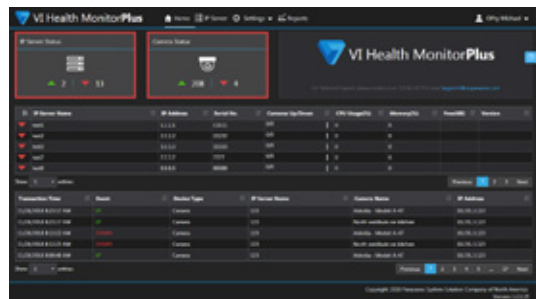
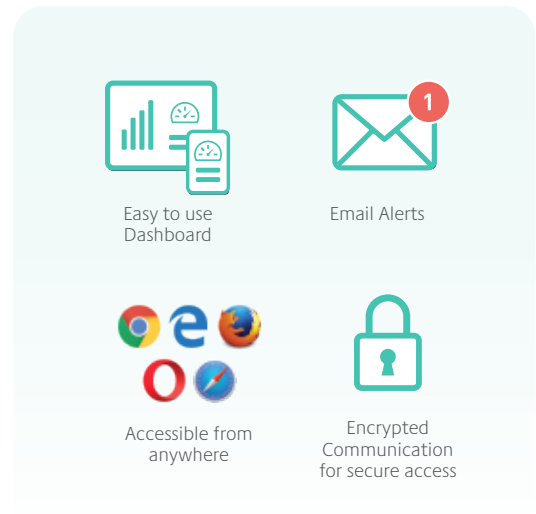
Centralized visibility of your security system health to help minimize system failures

- Helps ensure the health of your security platform
- Easy Intuitive Dashboard
- Real-time information and alerts to help identify and resolve failure faster
- Centrally monitor security platform from anywhere
- User authentication via SSL encrypted communication for secure access

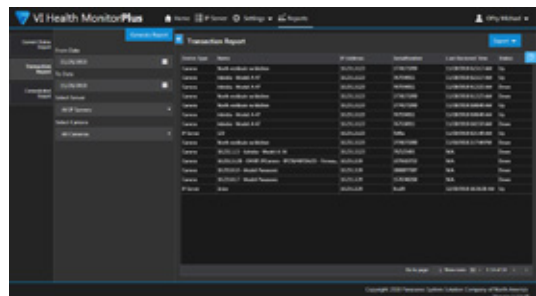
SYSTEM REQUIREMENTS

On-Premise Low Tier – v1.2.1

- 8 GB Memory
- 4 Core Machine
- 500 GB Hard Drive
- Windows 10 Pro or Server 2016, 2019
- SQL Server 2017 Express
- Supports 150 Servers and up to 7500 Cameras, 10+ Concurrent Users



Dashboard - Provides an overview of the health of the entire security system



Transaction Report - Users can generate reports based on date ranges to quickly identify trouble spots



MONITORCAST

Video surveillance is just one of the components needed to achieve a secure environment. Another main element of any safety roadmap should be an access control system that enables its users to quickly and efficiently set schedules, manage users, produce reports, and lock down the entire site in the event of an emergency. MonitorCast is an enterprise-grade access control application that comes integrated with Video Insight 7 to provide a seamless, unified security solution that allows security officials to increase readiness and quickly respond to incidents.



ACCESS CONTROL PARTNERS



KEY FEATURES

Multi-Site Support

- Perfect for large multi-location facilities such as government buildings, school districts, office branch locations, and even sporting arenas.
- Provides the ability to partition controllers between multiple primary and secondary sites.
- Each site contains independent controllable hardware, cardholders, and schedules all managed in one central console.

Built-in Rules Manager

- Reader/door rules
- I/O triggers
- Access denied/granted
- Reader override
- Keypad duress and output triggers
- Email notifications
- Keypad intrusion
- Monitor point audio alerts
- First card unlock
- Personnel roles

Scheduling Support

- Easily add or modify all schedule types
- Custom holiday scheduling a year in advance
- Advanced scheduling for special days or events
- Snow day to override all door schedules

Panic Buttons

- Proactively protect any facility with panic buttons. These programmed input devices can easily lock down a facility and override all door schedules.

Active Directory and CSV Import Utilities

- Unify your IT infrastructure by centralizing your configuration and personnel management database.
- By using active directory, system administrators can import individual personnel or groups efficiently.
- Active directory & CSV import include emails, names and phone numbers.
- Import personnel photo from local path.
- Personnel activation date/deactivation date.
- Active directory synchronization

Database Trimmer

- Provides the ability to limit the time frame of records kept within MonitorCast's database.
- Provides greater stability and usability to the platform.
- Helps DB admins and fellow users reduce the size of unwanted/expired information being stored in the database.

Card Access Management and Easy Enrollment

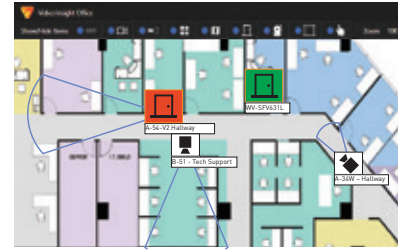
- Assign cards directly from the dashboard.
- Provides the ability to granularly assign individual card types to controllers, no matter if you are using 26bit card or another format entirely.
- Easily enroll a reader's configuration.
- Simply assign a card with a quick scan which opens the personnel enrollment page linked to card's number.

Card Format Discovery Support

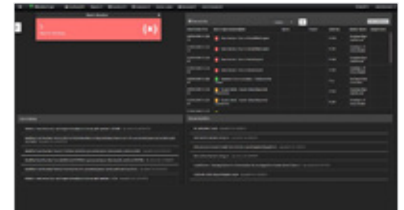
- With a simple scan of any card MonitorCast can provide exact card format information. Info such as card facility code assignment or card enrollment status.
- Allows for easy formatting, assignment, and retrieval of lost or stolen cards.

Customizable Reports

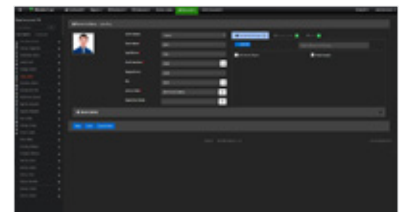
- Automated email reports.
- MonitorCast empowers its users with an array of customizable reports which are exportable directly from its UI.
- File formats for reports: PDF & XLS (Via VI MonitorPlus).
- Reader access reports (provide data on access to specific door name, & access level).
- User and card history
- Time & attendance
- Personnel area
- Other Integrators
- Schlage NDEB/LEB wireless lock support
- Schlage AD400/AD300
- Altronix LINQ integration
- ASSA Abloy Aperio line



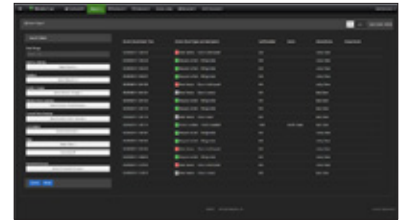
Simple Dashboard Displays Door Alarms on the Facility Map. Plot out your alarms visually using Map Based Alarms, providing real-time door alarms using the VI Monitor client access control map interface.



Custom Dashboard



Easy User Import & Creation



Customizable System Reports



MERCURY HARDWARE

MonitorCast is designed to support genuine Mercury hardware, making it easy to utilize most boards from existing installations without any modifications.

CONTROLLER	TYPE	PRIMARY POWER	READERS	INPUTS	OUTPUTS	ADDITIONAL FEATURES
MERCURY-LP4502	Intelligent Controller	12-24VDC +/- 10%, 150mA Max	2	8 Standard Inputs	4 Relays: Form C, 5A 30Vdc	Scalable up to 64 doors
MERCURY-LP2500	Intelligent Controller	12-24VDC +/- 10%, 150mA Max	0	0 Inputs	0 Relays	Scalable up to 64 doors
MERCURY-LP1501	Intelligent Controller	PoE @ 12.95W or 12Vdc	2	2 Standard Inputs	2 Relays: Form C, 2A @ 30Vdc	Scalable up to 17 doors
MERCURY-LP1502	Intelligent Controller	12-24VDC +/- 10%, 150mA Max	2	8 Standard Inputs	4 Relays: Form C, 5A 30Vdc	Scalable up to 64 doors
MERCURY-MR50-S3	Sub-Controller	12-24VDC +/- 10%, 150mA Max	1	2 Standard Inputs	1 Relay: 5A 30Vdc	Requires 485 Communication
MERCURY-MR62e	Sub-Controller	PoE @ 12.95W or 12Vdc	4	6 Standard Inputs	4 Relays: Form C, 2A @ 30Vdc	Network Communication
MERCURY-MR52-S3	Sub-Controller	12-24VDC +/- 10%, 150mA Max	2	8 Standard Inputs	6 Relays: Form C, 5A 30Vdc	Requires 485 Communication
MERCURY-MR16i-S3	Sub-Controller	12-24VDC +/- 10%, 150mA Max	0	16 Standard Inputs	2 Relays: Form C, 5A 28Vdc	Requires 485 Communication
MERCURY-MR16o-S3	Sub-Controller	12-24VDC +/- 10%, 150mA Max	0	0 Inputs	16 Relays: Form C, 5A 28Vdc	Requires 485 Communication

Licensing: The application is licensed on a "per door" basis and a numeric license is required and specifies the number of doors allowed to run on each MonitorCast installation. In addition, licenses are specific to the server and hardware used on a single box. If needed, additional doors can be added a la carte.

GO BEYOND TRADITIONAL ANALYTICS WITH INTELLIGENT SOLUTIONS FROM i-PRO

In today's environment, more users are looking to actively manage large surveillance systems. As these systems become more complex, i-PRO's intelligent analytics can help users by reducing the learning curve and system resources required to operate them. From improving the accuracy of alarms and notifications to reducing the overall system bandwidth and storage requirements, i-PRO Intelligent analytics has you covered.

- Change your surveillance system from reactive to proactive and anticipate situations before they occur
- i-PRO surveillance users can gain added sight awareness with intelligent analytics via scene analysis
- Optimized feature solutions for schools, municipalities, and commercial facilities
- i-PRO analytics may be deployed either at the edge or server level providing a flexible deployment

ANALYTICS AT THE EDGE



AI-VMD

AI-VMD can identify between objects. The cameras actively read the scene and uniquely differentiate between cars, motorcycles, bicycles, and people. Additionally, AI-VMD offers users intelligent functionality such as line-cross detection, scene-change detection, loitering detection and directional detection.



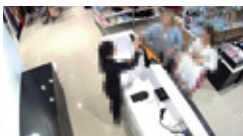
AI People/Vehicle/Face Detection

These analytics allow you to detect people, vehicles and faces, and it sends the metadata and best images to the server. They are compatible with i-PRO Active Guard, a search function that quickly finds people or vehicles through the video management software, Video Insight and Genetec.



AI Sound Classification

AI sound classification allows you to detect suspicious sounds, such as gunshots, screaming, vehicle horns or glass breaking. *External microphone is required



AI Privacy Guard

When deployed on i-PRO AI engine cameras, AI privacy guard protects the privacy of individuals within the scene by applying a mosaic over their face in real time.



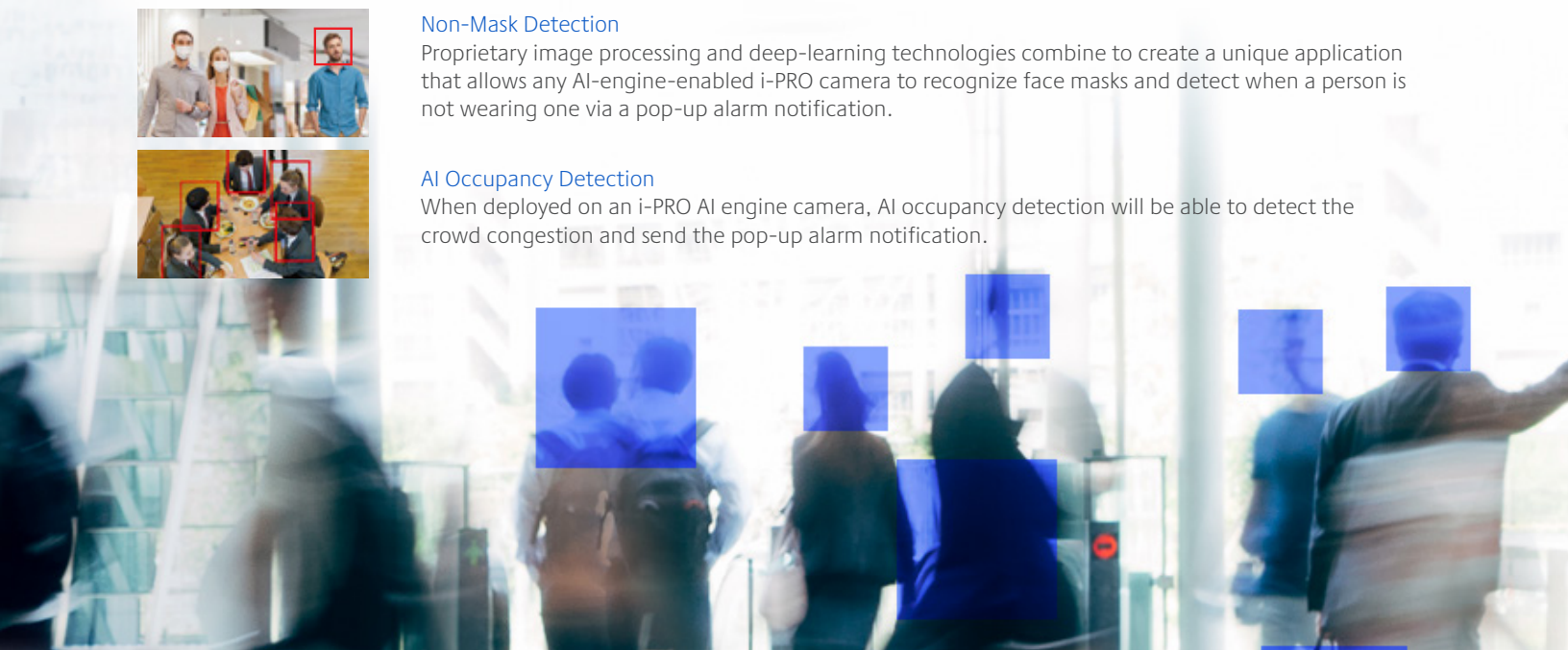
Non-Mask Detection

Proprietary image processing and deep-learning technologies combine to create a unique application that allows any AI-engine-enabled i-PRO camera to recognize face masks and detect when a person is not wearing one via a pop-up alarm notification.



AI Occupancy Detection

When deployed on an i-PRO AI engine camera, AI occupancy detection will be able to detect the crowd congestion and send the pop-up alarm notification.



INTEGRATION AND ANALYTICS



i-PRO Active Guard

[i-PRO Active Guard](#)

With the combination of i-PRO camera and deep learning technology, you can quickly search for images from attribute information of people and vehicles. It supports the number of attributes of people and vehicles in the top class of the surveillance industry. Edge analytics eliminates the need for expensive analysis servers and provides low cost.



VI Thermal Plug-in

[Video Insight Thermal Plug-in for Elevated Body Temperature](#)

Using the combined functionalities of MOBOTIX thermal cameras and the Video Insight VMS, an alarm is triggered when the user-defined, pre-set temperature threshold is exceeded.



Gunshot Detection

[Gunshot Detection by Databuoy \(ShotPoint\)](#)

This third-party integration uses acoustic sensors to monitor the environment. ShotPoint can precisely locate the event on a map and instantly communicate the information to the user via real-time notifications.



Visual Weapon Detection

[Visual Weapon Detection by ZeroEyes](#)

This third-party integration utilizes AI technology to monitor video images for weapons. In the case of an alert, ZeroEyes will confirm your alarm and launch a live alarm window notification to VI MonitorPlus client.



Vape Detection

[HALO | Vape Detection](#)

The Halo smart sensor integrates with VI MonitorPlus to receive instant notifications when hazardous chemicals are detected, such as smoke, vape cigarettes (including products containing THC). This smart sensor can also detect gunshots, AQI conditions and spoken keyword triggers.



License Plate Recognition

[VI License Plate Recognition](#)

The Video Insight license plate recognition plug-in allows you to automate any live license plate reading to rules or actions in VI (to enforce parking restrictions and more).



VI Video Redaction

[Video Insight Video Redaction](#)

When a request for a video of an incident is received, the protection and privacy of individuals who appear in the background, or individuals not involved in the incident, is vital. The use of the VI redaction plug-in, a powerful AI engine, enables users to selectively obscure key faces appearing in the recorded video.



Optex Red Scan Sensor

[Optex Red Scan Sensor - Area](#)

Red Scan series sensors can be added to Video Insight VMS the same way as a camera. These unique sensors utilize laser technology to check for motion in sensitive unreachable areas. Once triggered, this integration provides an alert notification with live windows, email notification, PTZ camera action, or any event designated in VI's rules manager by a user.



VI Health MonitorPlus

[Video Insight Health MonitorPlus](#)

VI Health MonitorPLUS provides a complete and easy-to-use interface featuring real-time monitoring of resources that alert administrators about any issues that might affect the services and keep track of any camera failures and video recording interruptions.

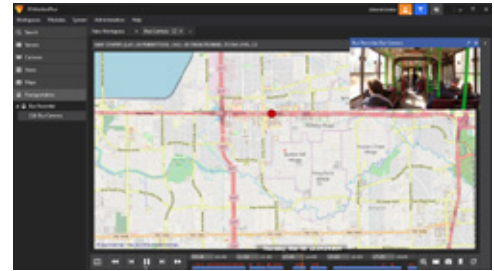
TRANSIT SOLUTION

End-to-End Security Solution for Transportation

i-PRO's new Transportation solution provides Security Officials with easy access to recorded video and seamless integration between the Command Center and the Fleet of buses – Never miss the cause of the accident ever again!

KEY FEATURES

- Tracks bus activity and location to identify unexpected incidents
- Provides seamless integration with Video Insight 7 for easy monitoring
- Transfers Recorder footage automatically upon arrival at the main station
- Provides Video playback with Geo-location data displayed on a map
- Programmable actions trigger recording (stop sign, door open/close and panic button)



Client Plug-in Software



360° Dome Network Camera



Compact Dome Network Camera



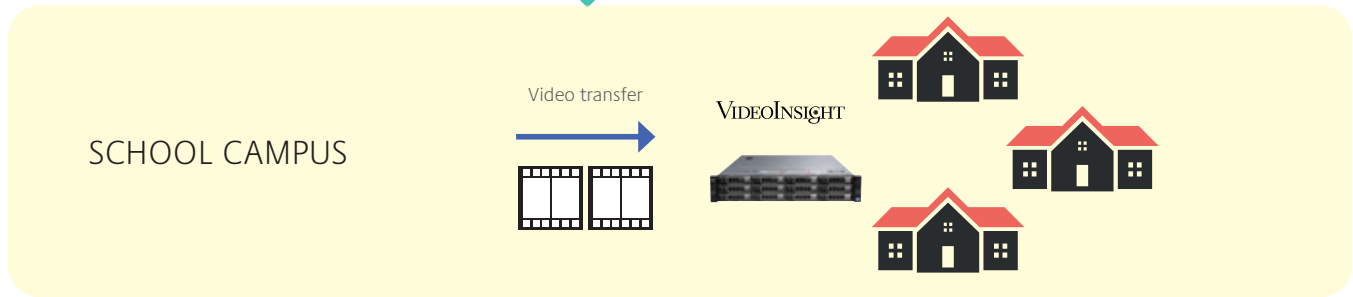
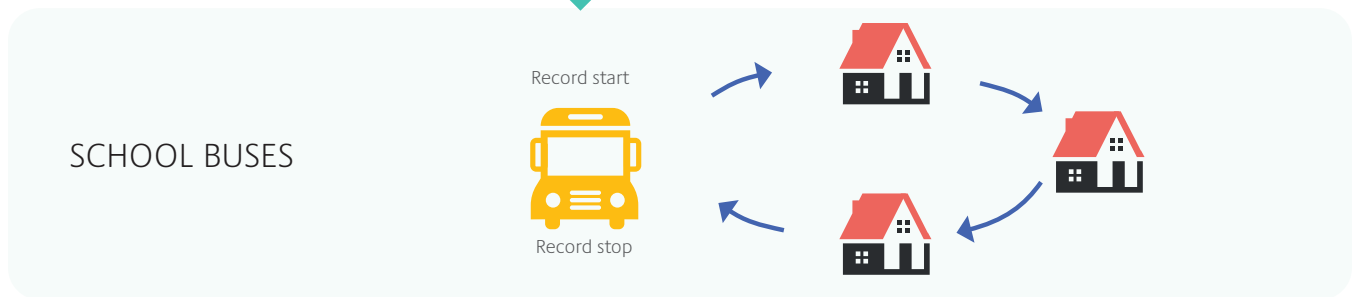
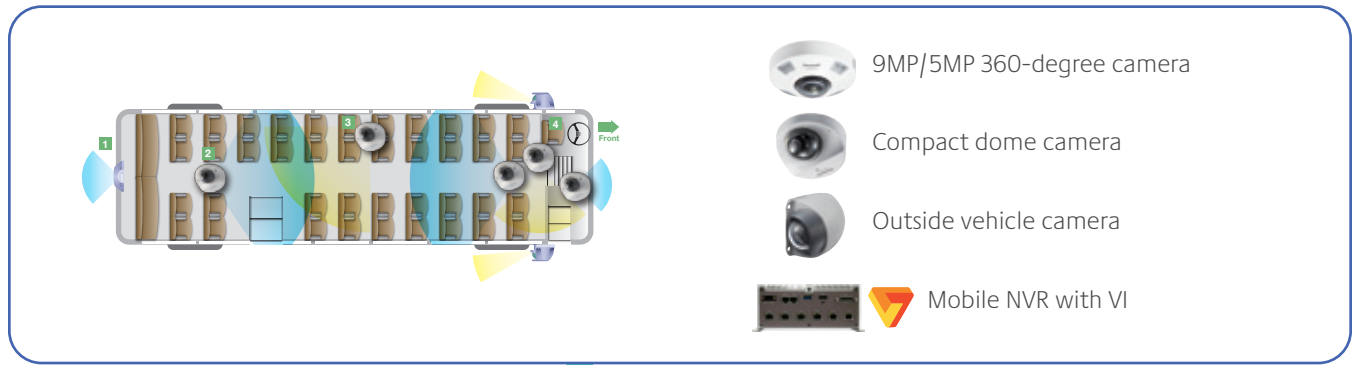
Rugged Mobile Network Camera



Mobile Recorder



SYSTEM OVERVIEW



PoE PORT	CPU	DATA SLOT	FEATURES	DIMENSION	OPERATING TEMPERATURE	DATA DRIVE	MODEL NUMBER
8-port (60W total)	Intel Core i3 6100U	2	VI IP server Enterprise bundled Built-in Wi-Fi 802.11a/b/g/n/ac Built-in GPS Windows 10 IoT	10.24" (W) x 7.72" (D) x 3.58" (H)	32 to 131 °F with air flow	1x 1TB TLC SSD	MR-8C-I3-TL1TB-W
						2x 1TB TLC SSD	MR-8C-I3-TL2TB-W
						2x 2TB TLC SSD	MR-8C-I3-TL4TB-W
					-22 to 140 °F with air flow	1x 1TB MLC SSD	MR-8C-I3-ML1TB-W
						2x 1TB MLC SSD	MR-8C-I3-ML2TB-W
						2x 2TB TLC SSD	MR-8C-I3-ML4TB-W
6-port (60W total)	Intel ATOM E3940	1	VI IP server Enterprise bundled Built-in Wi-Fi 802.11a/b/g/n/ac Built-in GPS Windows 10 IoT	7.1" (W) x 7.1" (D) x 3.0" (H)	32 to 131 °F with air flow	1x 1TB TLC SSD	MR-6C-AT-TL1TB-W
						1x 2TB TLC SSD	MR-6C-AT-TL2TB-W
					-40 to 158 °F with air flow	1x 1TB MLC SSD	MR-6C-AT-ML1TB-W
						1x 2TB TLC SSD	MR-6C-AT-ML2TB-W

PRODUCT	DESCRIPTION	MODEL NUMBER
Storage drive	1TB SSD	MR-TL1TB (70 degC) / MR-ML1TB (85 degC)
	2TB SSD	MR-TL2TB (70 degC) / MR-ML2TB (85 degC)
License	Transit Solution plug-in software per NVR	PSVS-AD-TRANS-UL



i-PRO Americas Inc.

FOR TECHNICAL SUPPORT

i-pro.com/us/en/surveillance/support
1.800.513.5417
M-F 7:00am – 7:00pm CST

**FOR MORE INFORMATION,
CONTACT US**

i-pro.com/us/en/surveillance
SurveillanceSolutions@i-pro.com
1.877.803.8492