

April 2023 Product Introduction

PM Team | 04.01.2023



Agenda

- **X-Plus and P series Modules**
- **System Controller**
- **Wisenet SKY Hardware**
- **Wisenet SKY Features**

X-Plus and P series Modules



PNV-A9081RX

P series 8MP module for outdoor housing

PND-A9081RX

P series 8MP module for indoor housing

XNV-8083RX

P series 6MP module for outdoor housing

XND-8083RX

P series 6MP module for indoor housing

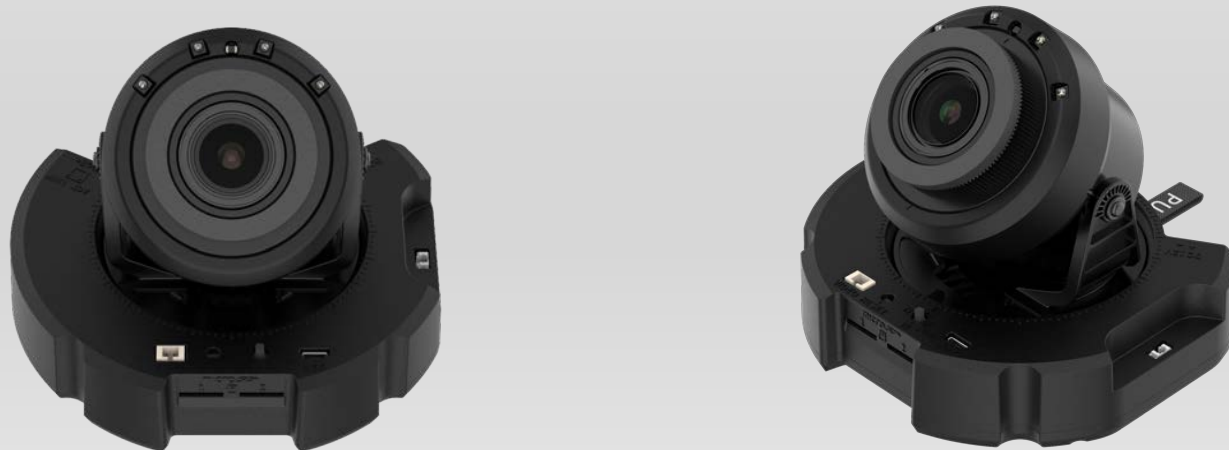


Why Sell Modules

Selling camera modules separately will greatly benefit the end user and the dealer and here is why:
As when it comes time to update, replace or maintain an old modular cameras:

- The dealer saves money as the modules are **26% less** than the full camera price
- The dealer saves on installation costs as it will save a lot of time since they don't need to replace the housing or remove the conduit.
- The user benefits from the cost and time savings as the site doesn't need to be down for a long time to maintain or update the cameras

Today we are releasing 4 modules that users can buy off the price list to update or replace their own Hanwha Modular camera.



X-Plus and P Series Module Specifications

	PNV-A9081RX	PND-A9081RX	XNV-8083RX	XND-8083RX
Housing compatibility	Outdoor	Indoor	Outdoor	Indoor
Resolution	8MP@30fps	8MP@30fps	6MP@30fps	6MP@30fps
Lens	4.5~10mm M/VF	4.5~10mm M/VF	4.4~9.3mm M/VF	4.4~9.3mm M/VF
AI	Object detection + Attributes extraction	Object detection + Attributes extraction	Object detection	Object detection
IR	30m(98.42ft)	30m(98.42ft)	WiseIR 50m(164.04ft)	WiseIR 50m(164.04ft)
Power	PoE+/12VDC	PoE+/12VDC	PoE+/12VDC	PoE+/12VDC



System Controller



USB Controller

SPC-2001



USB Joystick Controller

The SPC-2001 consists of a 3-axis handle for PTZ operation and 12 buttons for custom settings. New USB Controller helps to control monitoring cameras more accessible and accurately. It supports USB connection for convenient use in a computer environment. Connect it to the USB port on a computer that supports DirectX, and you can use it immediately, without extra software installation.



Wisenet SKY Hardware

Bridge 406+

CMVR 426+

CMVR 524+

Gigabit Switches



Bridge 406+

- **Key Features and Benefits**
 - New high-performance compact bridge
 - Supports 35 4MP IP cameras
 - Supports up to 15 cameras utilizing bridge video analytics
 - Supports up to 2 LPR cameras with dedicated GPU
 - Buffer of 2 days for 35 IP Cameras up to 4MP at 50% duty cycle
 - Leverages same performance, hardware lifetime, and installation benefits of Wisenet SKY compact bridges
- **Pricing and Availability**
 - Same MSRP as the 404+: \$1,830 USD or \$2,282.02 CAD
 - It will be replacing the 306+ and 404+
 - Available Mid-April
 - 2 Weeks lead time



Compact ‘+’ Bridge Comparison



Key Benefits:

- Ruggedized aluminum chassis
- Broader operating temperature range
- Enhanced reliability and operating lifetime
- Shelf and wall mount support
- On-bridge display providing connectivity and operational information
- Compact and lightweight design

MODEL	Bridge 304+	Bridge 306+	Bridge 404+	Bridge 406+	Bridge 504+
Max Cameras (4MP)	20 IP	25 IP	35 IP	35 IP	50 IP
Max Analytic Count	5	10	15	15	20
LPR Support	None	Up to 2 LPR cameras	None	Up to 2 LPR cameras	Up to 4 LPR cameras
Unit Weight	2.65 lbs	2.80 lbs	2.77 lbs	2.77 lbs	5.27 lbs
Dimensions	180x 127 x 64 mm 7.08 x 5.00 x 2.50 in	180x 127 x 64 mm 7.08 x 5.00 x 2.50 in	180x 127 x 64 mm 7.08 x 5.00 x 2.50 in	180x 127 x 64 mm 7.08 x 5.00 x 2.50 in	229x 127 x 83 mm 9.02 x 5.00 x 3.27 in
Operating Temperature Range	-10-50° C 14-122° F	-10-50° C 14-122° F	-10-50° C 14-122° F	-10-50° C 14-122° F	-10-50° C 14-122° F
Certifications	FCC, UL, CE, UKCA, NOM, ACM, RoHS, CTick	FCC, UL, CE, UKCA, NOM, ACM, RoHS, CTick	FCC, UL, CE, UKCA, NOM, ACM, RoHS, CTick	FCC, UL, CE, UKCA, NOM, ACM, RoHS, CTick	FCC, UL, CE, UKCA, NOM, ACM, RoHS, CTick
MSRP (USD)	\$870	\$1,219	\$1,742	\$1,742	\$2,615
MSRP (CAD)	\$1,139.70	\$1,596.89	\$2,282.02	\$2,282.02	\$3,425.65

CMVR 426+ and 524+

- **Key Features and Benefits**

- New higher camera capacity compact CMVR
- Supports 20 and 25 4MP IP cameras respectively
- Supports up to 15 and 20 cameras utilizing bridge video analytics respectively
- Dedicated GPU that supports up to 2 and 4 LPR cameras respectively
- 16 TB HDD (30 days for 20 and 25 4MP cameras respectively)

- **Pricing and Availability**

- CMVR 426+ MSRP: \$2,963 USD or \$3,881.53 CAD
- CMVR 524+ MSRP: \$5,231 USD or \$6,852.61 CAD
- Available Mid-April
- 2 Weeks lead time



Compact '+' CMVR Comparison



MODEL	CMVR 324+	CMVR 325	CMVR 426+	CMVR 524+
Max Cameras (4MP)	12 IP	8 IP	20 IP	25 IP
Max Analytic Count	5	5	15	20
LPR Support	None	None	Up to 2 LPR cameras	Up to 4 LPR cameras
Storage Capacity	4 TB	2 TB	16 TB	16 TB
Dimensions	180x 127 x 64 mm 7.08 x 5.00 x 2.50 in	127 x 172 x 75 mm 5.00 x 6.77 x 2.95 in	229 x 127 x 83 mm 9.00 x 5.00 x 3.25 in	229 x 127 x 83 mm 9.00 x 5.00 x 3.25 in
Operating Temperature Range	-10-50° C 14-122° F	-10-50° C 14-122° F	-10-50° C 14-122° F	-10-50° C 14-122° F
Certifications	FCC, UL, CE, UKCA, PSE, NOM, ACM, RoHS, Ctick, WEEE	UL, CE, PSE, CB, TIS	FCC, UL, CE, UKCA, PSE, NOM, ACM, RoHS, Ctick, WEEE	FCC, UL, CE, UKCA, PSE, NOM, ACM, RoHS, Ctick, WEEE
MSRP (USD)	\$1,394	\$1,428	\$2,963	\$5,231
MSRP (CAD)	\$1,826.14	\$1,870.68	\$3,881.53	\$6,852.61

Gigabit PoE+ Switches

- **Key Features and Benefits**
 - 8-port PoE, 16-port PoE, 24-port PoE
 - Great for situations that require higher bandwidth
 - Network topologies that requires cascading multiple switches
 - Locations where multiple bridges are deployed
 - PoE support at max of 15.4W per port
 - PoE+ support at max of 30W per port
 - Max. Power Budget of 125W, 250W, 370W respectively
- **Pricing and Availability**
 - EN-SW10g-001 MSRP: \$399 USD or \$522.69 CAD
 - EN-SW20g-001 MSRP: \$870 USD or \$1,139.70 CAD
 - EN-SW28g-001 MSRP: \$1,394 US\$ or \$1,826.14 CAD
 - 2 Weeks lead time



Gigabit PoE+ Switches



MODEL	EN-SW10G-001	EN-SW20G-001	EN-SW28G-001
Total Number of Ports	10	20	28
PoE Ports	8 PoE+	16 PoE+	24 PoE+
Uplink Ports	2 SFP	2 RJ-45 and 2 SFP	2 RJ-45 and 2 SFP
PoE Specifications	54 VDC 802.3af (max 15.4W) 802.3at (max 30W)	54 VDC 802.3af (max 15.4W) 802.3at (max 30W)	54 VDC 802.3af (max 15.4W) 802.3at (max 30W)
Max. Power Budget	125W	250W	370W
Speed	10/100/1000 Mbps	10/100/1000 Mbps	10/100/1000 Mbps
Operating Temperature Range	0-50° C 32-122° F	0-50° C 32-122° F	0-50° C 32-122° F
Storage Temperature Range	-20-70° C -4-158° F	-20-70° C -4-158° F	-20-70° C -4-158° F

An aerial night view of a city skyline. The image shows several modern buildings with illuminated facades, including a prominent cylindrical building with a red top section. The streets are lit up with streetlights, and there are many cars visible on the roads. The sky is a deep blue with some clouds. The overall scene is a vibrant urban landscape at night.

Wisenet SKY Features

**Hanwha Camera Analytics
Vehicle Surveillance Package
VMS Editions**

Hanwha Camera Analytics based Recording



- Enable Hanwha camera analytics (**Object counting, Line crossing, Intrusion Detection, Loitering, Tampering, Motion Detection**) and record the high res video based on the triggering of these analytics.

2023-03-25 14:44:51.681

Object detection • AI

8 Hr | 2 Hr | 10 Min | 1 Min

14:10

15:20

© 2023 Hanwha Vision

Save Select

Type
Person
Vehicle

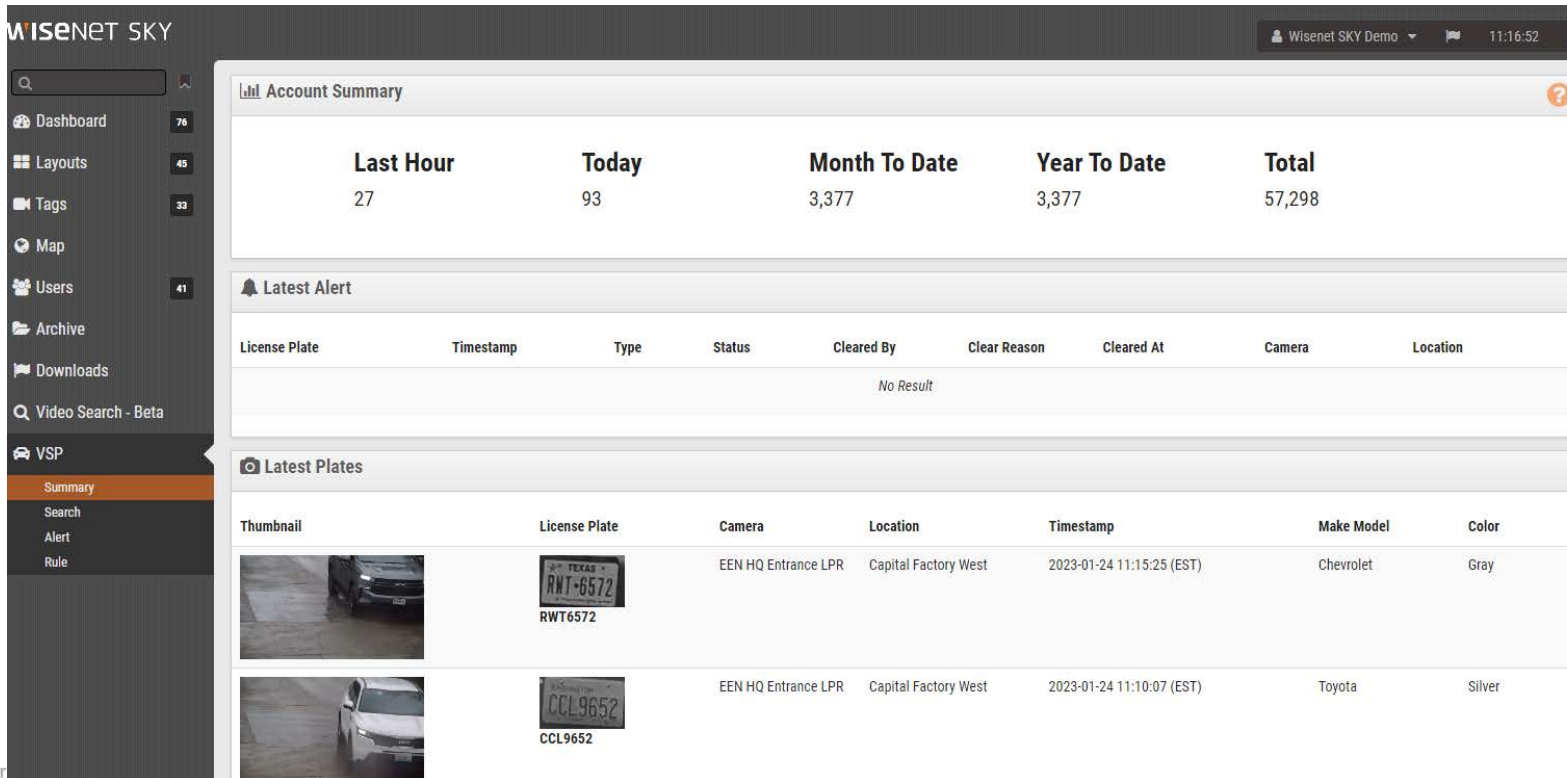
Vehicle Surveillance Package and server LPR

EN-PA001-1/12/36/60 - Vehicle Surveillance Package (VSP) subscription service for Hanwha LPR Camera Monthly/Yearly/3Yearly/5Yearly

- Can be used with Hanwha XNO-6120R/LPR and Artec app from Open Platform

EN-ANA-020-1/12/36/60 - Analytic License Plate Recognition subscription service for Server LPR Monthly/Yearly/3Yearly/5Yearly

- Requires **EN-PA001-1/12/36/60** VSP Subscription service first to utilize server-side LPR.







The screenshot displays the Wisenet SKY interface. On the left is a navigation sidebar with options: Dashboard (76), Layouts (45), Tags (33), Map, Users (41), Archive, Downloads, Video Search - Beta, and VSP. The VSP section is expanded to show Summary, Search, Alert, and Rule. The main content area is titled 'Account Summary' and contains a table with the following data:

Last Hour	Today	Month To Date	Year To Date	Total
27	93	3,377	3,377	57,298

Below the account summary is a 'Latest Alert' section with a table that currently shows 'No Result'.

License Plate	Timestamp	Type	Status	Cleared By	Clear Reason	Cleared At	Camera	Location
No Result								

The 'Latest Plates' section shows a table of detected license plates:

Thumbnail	License Plate	Camera	Location	Timestamp	Make Model	Color
	 RWT6572	EEN HQ Entrance LPR	Capital Factory West	2023-01-24 11:15:25 (EST)	Chevrolet	Gray
	 CCL9652	EEN HQ Entrance LPR	Capital Factory West	2023-01-24 11:10:07 (EST)	Toyota	Silver

VMS Editions

- **Standard / Professional / Enterprise editions**
 - Features to accommodate small businesses with a few locations, to distributed businesses with approximately 25 locations, to large businesses with many locations.

Overview	Standard	Pro	Enterprise
Cameras per account	Unlimited	Unlimited	Unlimited
Users per account	100	1,000	Unlimited
Cloud archival	10 GB fixed	5 GB per bridge	10 GB per bridge
Web client	✓	✓	✓
Mobile client	✓	✓	✓
Smart video search	✓	✓	✓
Unlimited third-party integrations using Eagle Eye Video API Platform	✓	✓	✓
Supports the full spectrum of camera analytics, AI, and cloud analytics	✓	✓	✓
2-Way Audio	✓	✓	✓
Multi-factor authentication	✓	✓	✓
Single sign-on		✓	✓
Locations		✓	✓
Floor Plans		✓	✓
Smart Alarms		✓	✓
Smart Layouts		✓	✓
Audit log		✓	✓
Audit log notifications			✓
Reports			✓
Command line interface (CLI)			✓
Customized online training			✓
Periodic system health review		Annual	Quarterly

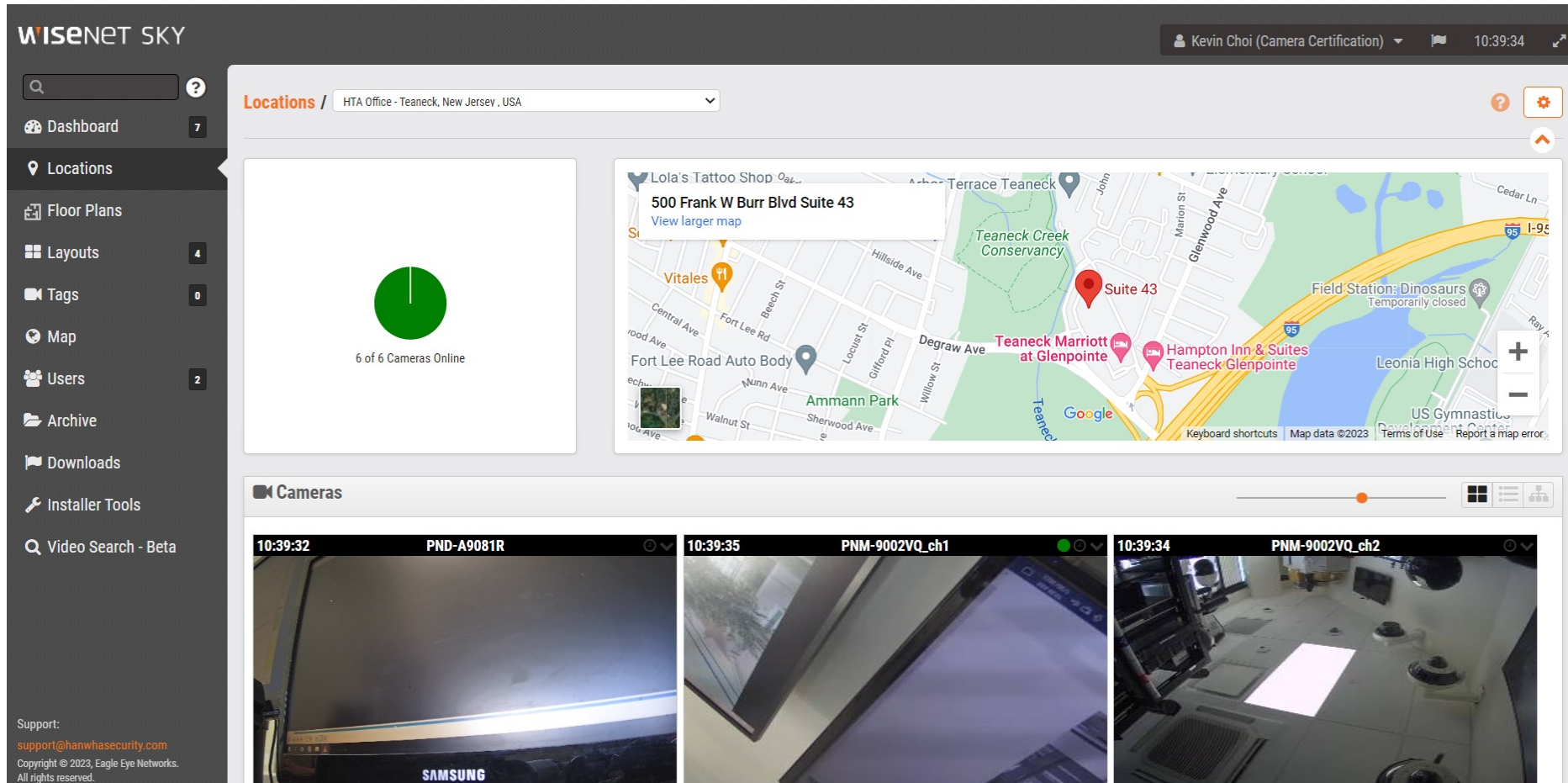
Note: Per camera, for entire End-user account
Send PO to orders@wisenet.com

Smart Video Search Features	Standard	Professional	Enterprise
Video Search for People, Vehicle, Objects	Yes	Yes	Yes
Natural Language Search	Yes	Yes	Yes
Search across all sites, bridges, cameras	Yes	Yes	Yes
Density Map	Yes	Yes	Yes
Meta-data search (Single click search for similar objects)	Yes	Yes	Yes
Search for Similar Images	Yes	Yes	Yes
Filter by Camera, Tags, ROIs	Yes	Yes	Yes
Re-Identification Search	No	Yes	Yes
Smart Alerts (coming soon)	No	Yes	Yes
Incident Explorer	No	Yes	Yes
Location-based grouping	No	Yes	Yes
Show Nearby Cameras	No	Yes	Yes
Search Metadata Retention	7 days	VMS Retention	VMS Retention

VMS Editions – Pro/Enterprise Features

- **Locations**

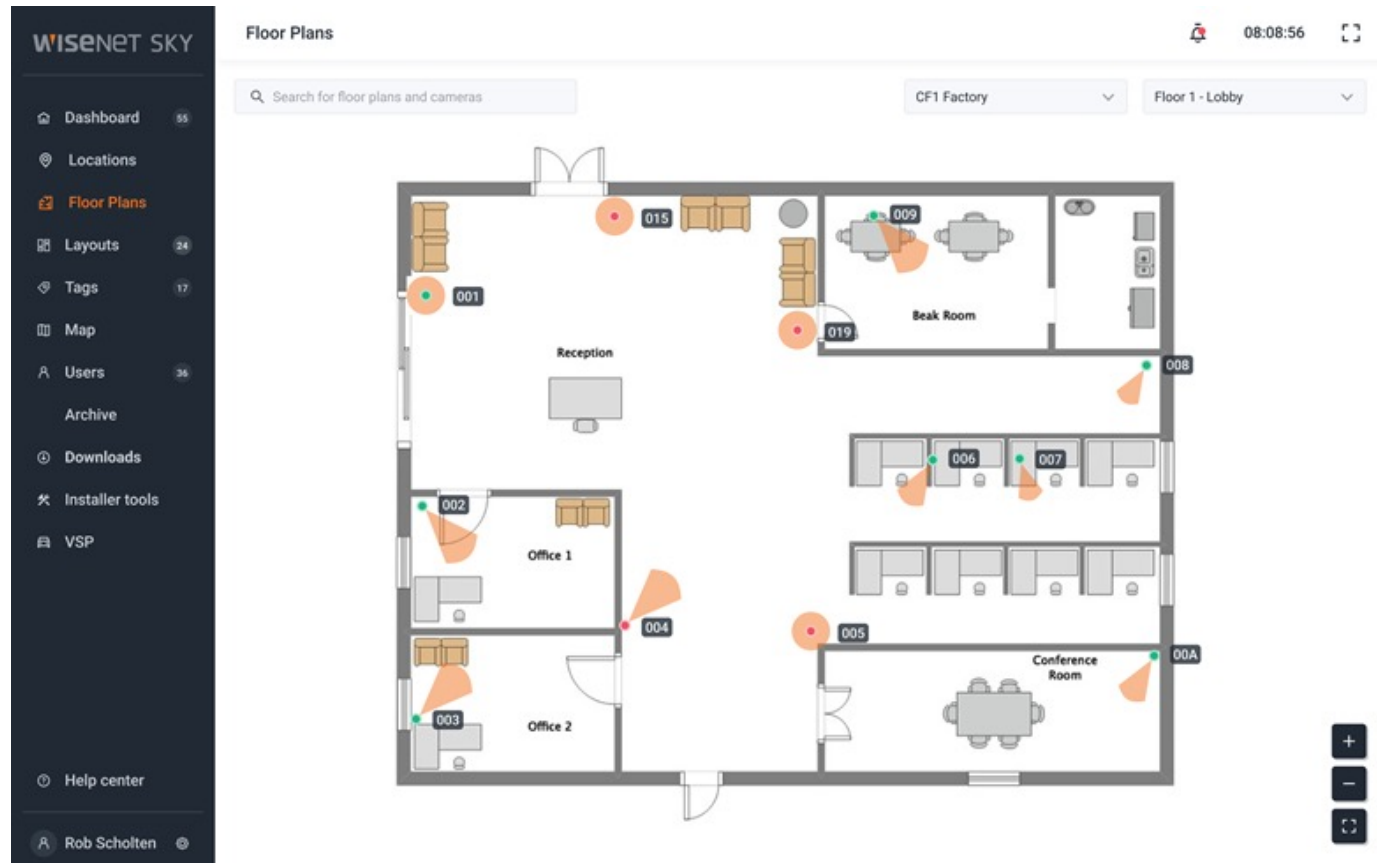
- Locations are a way to manage sites and cameras. This feature is foundational in managing users, permissions, and other features. Allows grouping by locations and feature access to Floorplans.



The screenshot displays the Wisenet Sky VMS interface. The top navigation bar shows the user 'Kevin Choi (Camera Certification)' and the time '10:39:34'. The main content area is titled 'Locations' and shows the selected location 'HTA Office - Teaneck, New Jersey, USA'. A map of Teaneck, NJ, is displayed with a location pin for '500 Frank W Burr Blvd Suite 43'. A status card indicates '6 of 6 Cameras Online'. Below the map, three camera feeds are shown: PND-A9081R, PNM-9002VQ_ch1, and PNM-9002VQ_ch2. The interface also includes a sidebar with navigation options and a footer with support information.

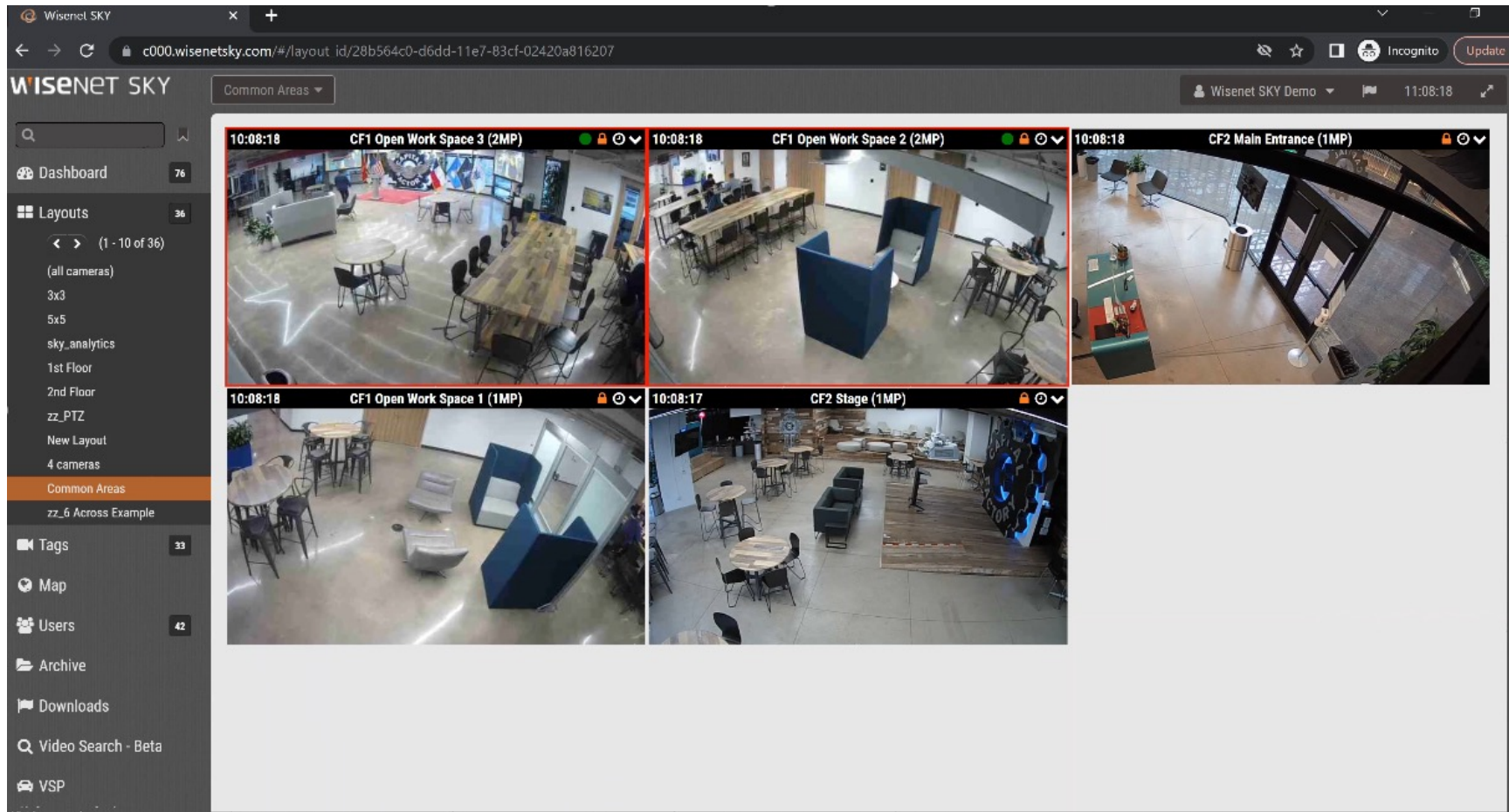
VMS Editions – Pro/Enterprise Features

- Floor Plans
 - Floor Plans are a new way to view cameras. Users can now upload their floor plans and attach cameras to aid in understanding where people are in the context of a building.



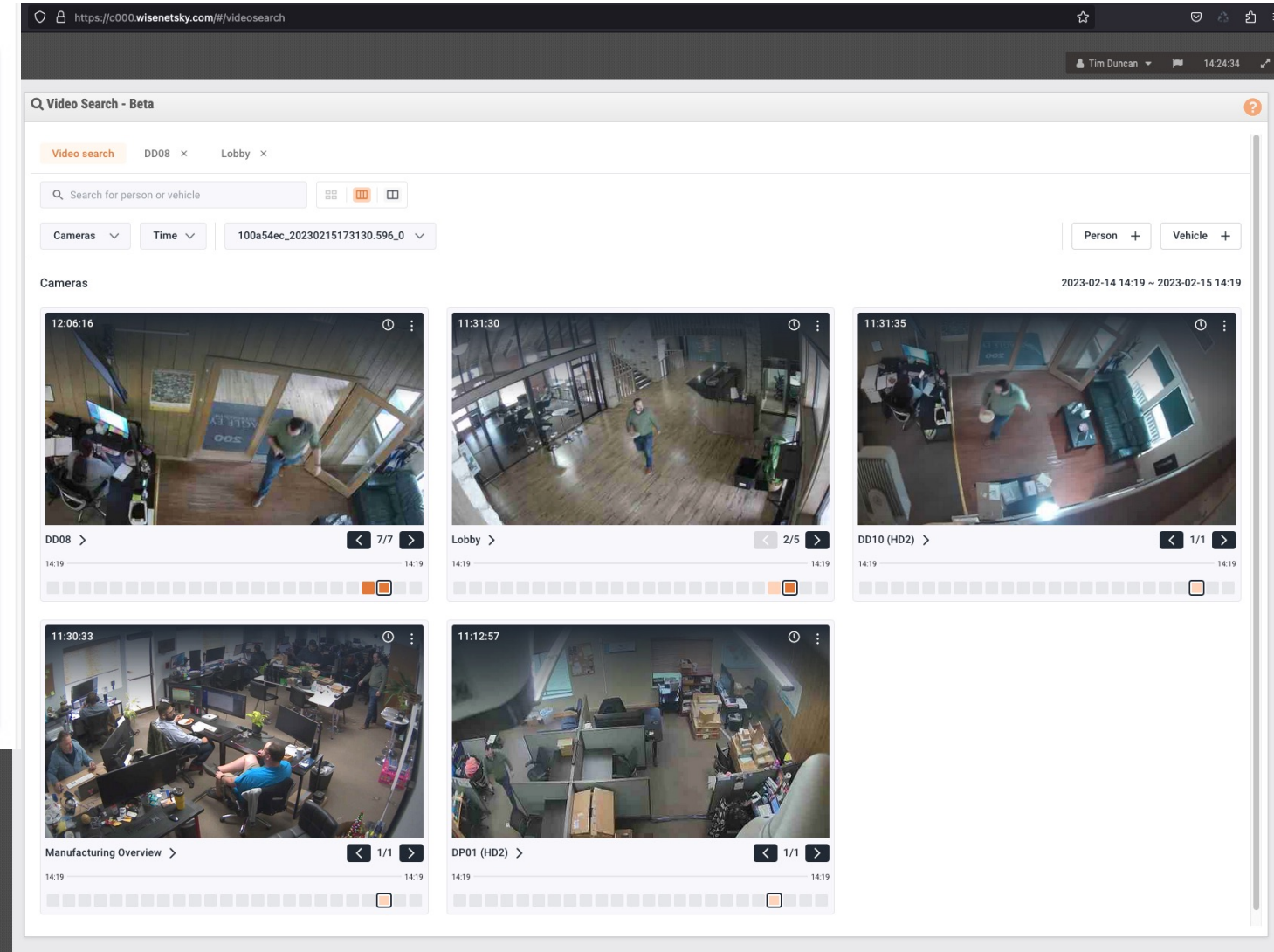
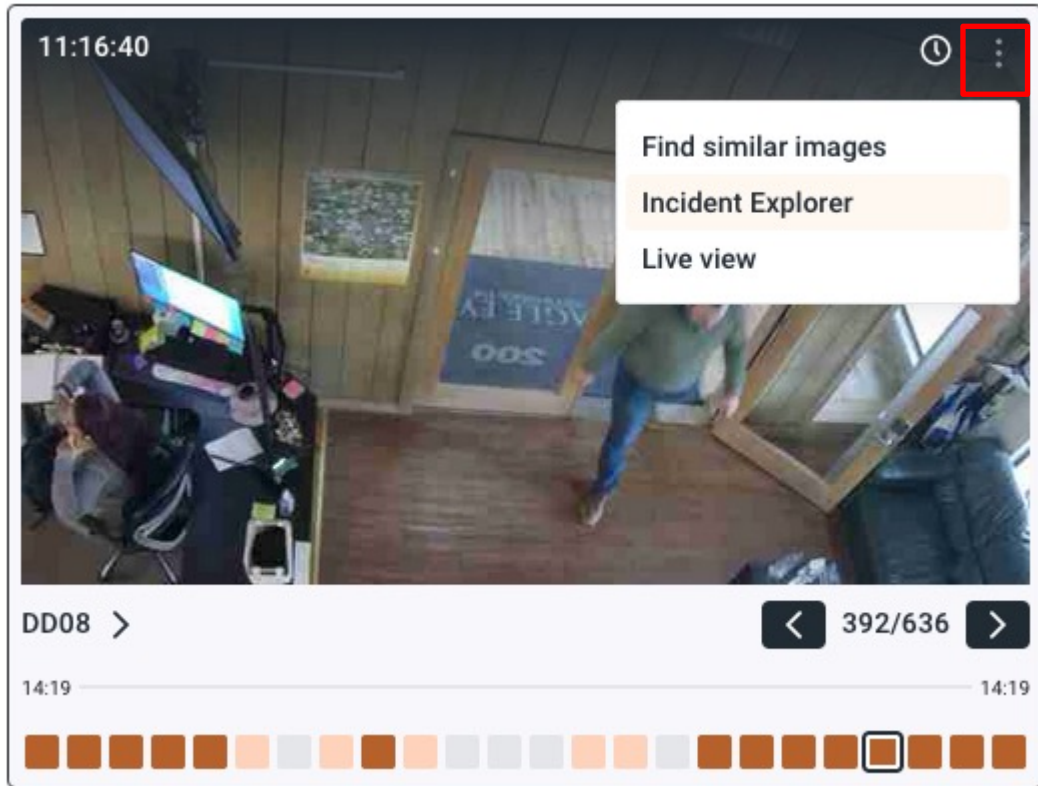
VMS Editions – Pro/Enterprise Features

- Smart Layouts
 - Smart Layouts are the first introduction of AI to the popular Layouts feature. Stay up to date with motion events, as well as person and vehicle detection.



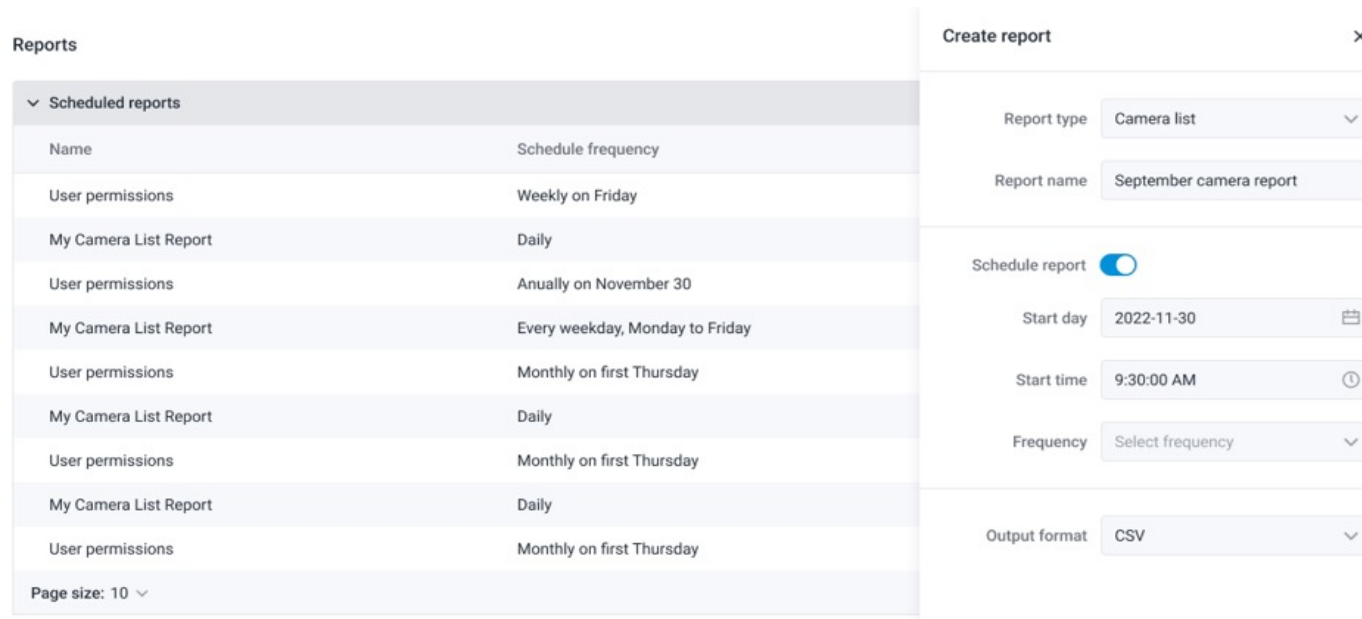
VMS Editions – Pro/Enterprise Features

- Re-Identification search
 - Search the same object ID across multiple cameras via Incident Explorer



VMS Editions – Pro/Enterprise Features

- **Increased Search Metadata Retention for Video Search**
 - Standard edition comes with 7 days. Pro/Enterprise would increase this to the VMS retention.
- **Command Line Interface Tool (CLI)**
 - Designed for tech savvy VMS users that want to get things done quicker and navigate through large amounts of data with ease.
- **Reports and Graphical Reports (Coming Soon)**
 - Get a closer look at the health and growth of your business with a new way to create customizable reports for different facets in the VMS.



The screenshot displays two panels from a VMS interface. The left panel, titled 'Reports', shows a table of scheduled reports. The right panel, titled 'Create report', shows a form for configuring a new report.

Scheduled reports	
Name	Schedule frequency
User permissions	Weekly on Friday
My Camera List Report	Daily
User permissions	Anually on November 30
My Camera List Report	Every weekday, Monday to Friday
User permissions	Monthly on first Thursday
My Camera List Report	Daily
User permissions	Monthly on first Thursday
My Camera List Report	Daily
User permissions	Monthly on first Thursday

Create report (Close: X)

Report type: Camera list (dropdown)

Report name: September camera report (text input)

Schedule report:

Start day: 2022-11-30 (calendar icon)

Start time: 9:30:00 AM (clock icon)

Frequency: Select frequency (dropdown)

Output format: CSV (dropdown)

Questions?

Thank You