

ii-PRO

May
2023

PRODUCT
LINEUP

COMPANY INFORMATION

Company Name i-PRO Co., Ltd.

Established 2019

Representatives Masato Nakao
Shohei Ozaki

Lines of Business Development, manufacture and sales of devices and modules for the security, medicine and industrial fields. Providing solutions including system integration, construction, maintenance and related services.

Number of Employees Approx. 1400 (including group companies)

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Group Companies

Americas: i-PRO Americas Inc.

Houston : 8550 Fallbrook Road, Suite 200, Houston, TX 77064, USA
Chicago : 1701 Golf Road, Suite 3-600, Rolling Meadows, IL 60008, USA
Anaheim : 2390 E. Orangewood Ave., Suite 490, Anaheim, CA 92806, USA
Canada : 5750 Explorer Drive, Suite 101, Mississauga, Ontario, Canada

EMEA : i-PRO EMEA B.V.

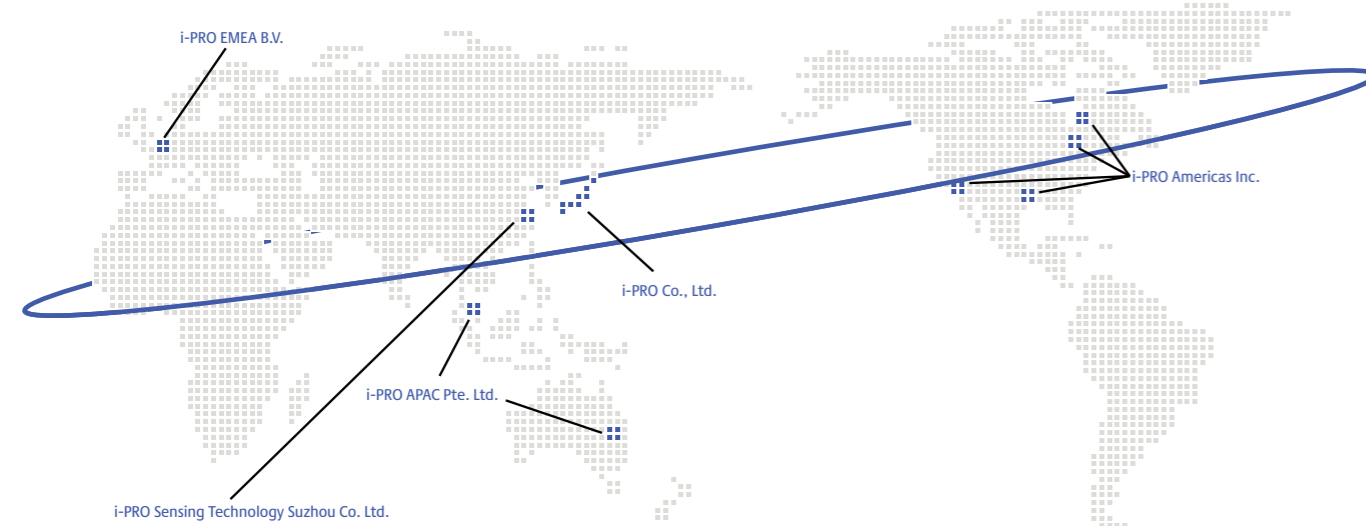
Amsterdam: Laarderhoogtweg 25, 1101 EB Amsterdam, Netherlands

Asia Pacific: i-PRO APAC Pte. Ltd.

Singapore : 114 Lavender #01-36,51,52, CT Hub 2, Singapore 338729
Brisbane : 10/10 Depot Street, Banyo QLD, Australia 4014

China: i-PRO Sensing Technology (Suzhou) Co., Ltd.

1478 Binhe Road, Huqiu district, Suzhou, Jiangsu province



i-PRO
The Power of Truth

We strive to capture moments of underlying truth to better support the decisions of those professionals who protect and save lives, providing a safer and more peaceful world.

We have taken on this challenge to develop technological solutions that extend human senses with innovations that inform and protect, even in the most challenging environments.

We envision a future where it's possible to prevent unfortunate events. A future striking unmet medical conditions to improve the lives of millions of people.

We will be a trusted partner, focusing on the needs of our partners and customers to help create a safer and more peaceful world.

i-PRO Co., Ltd.

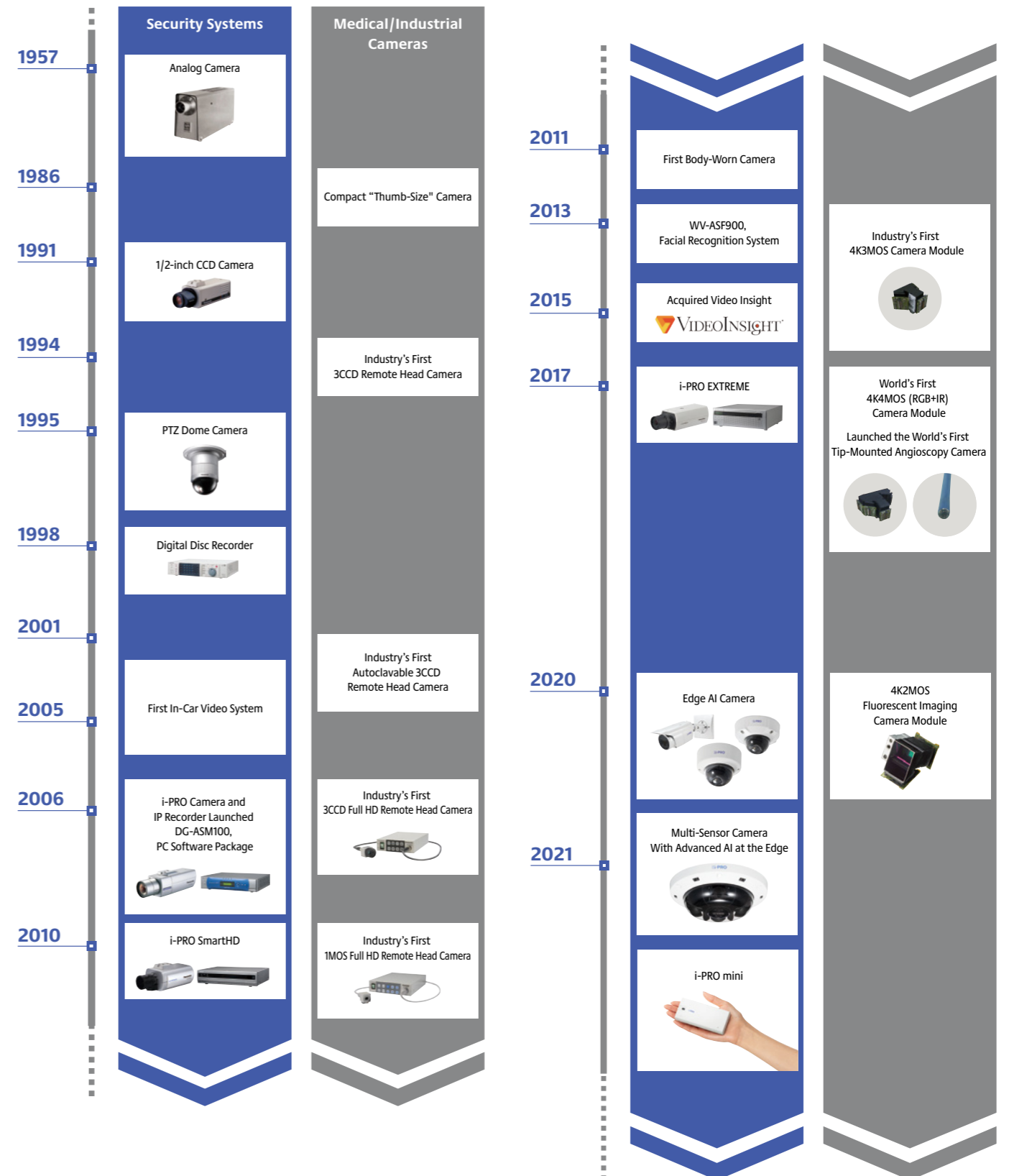
i-pro.com



PRODUCT & TECHNOLOGY MILESTONES

i-PRO Co., Ltd., is a global leader of advanced sensing technologies in the fields of Intelligent Surveillance, Public Safety and Industrial/Medical Imaging. Established in 2019, i-PRO was built on a legacy of over 60 years of innovation with Panasonic.

The company's products, software and services extend human senses to capture moments of truth with innovations that inform and protect. In order to help create a safer world, i-PRO supports the work of professionals who protect and save lives.



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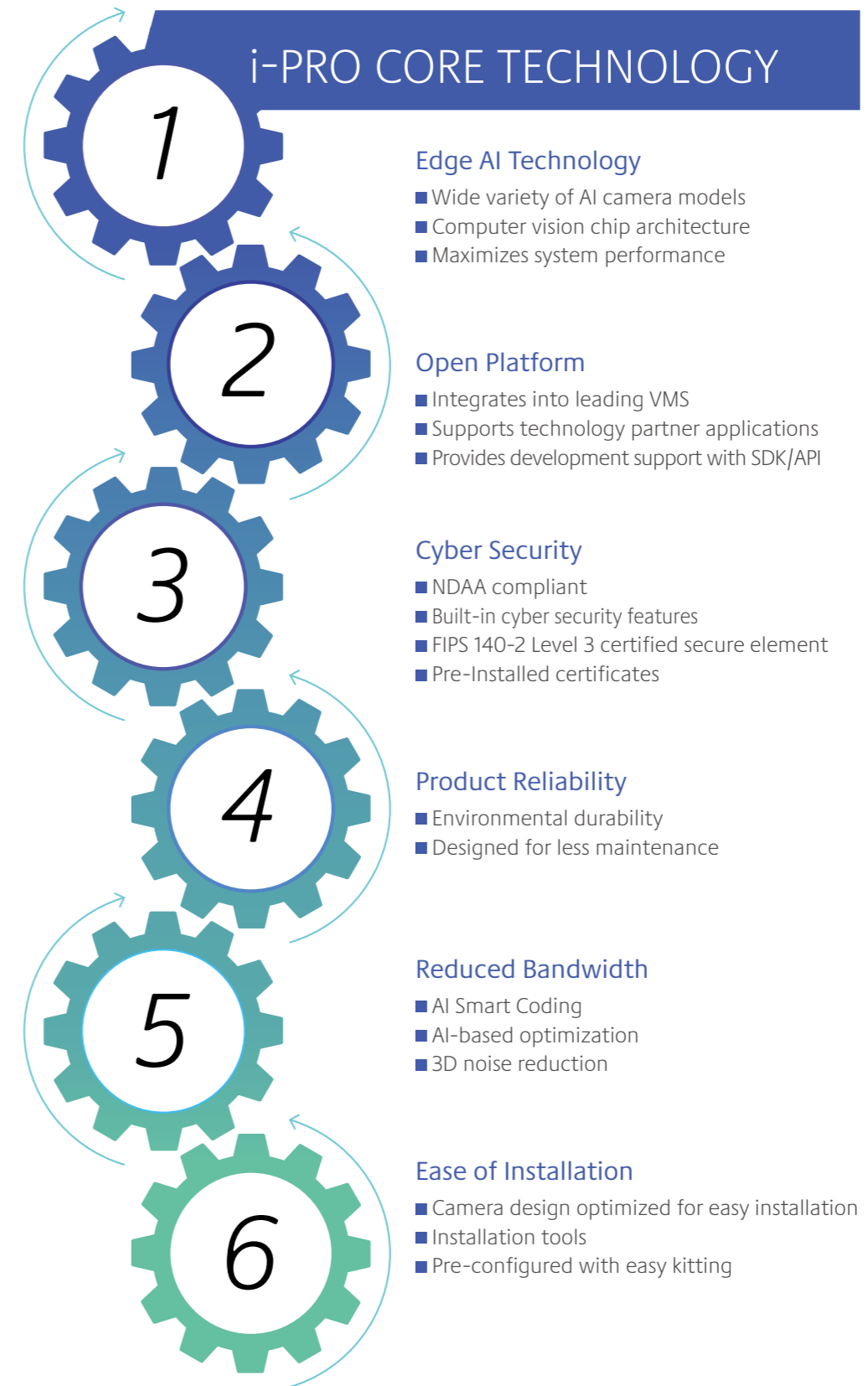
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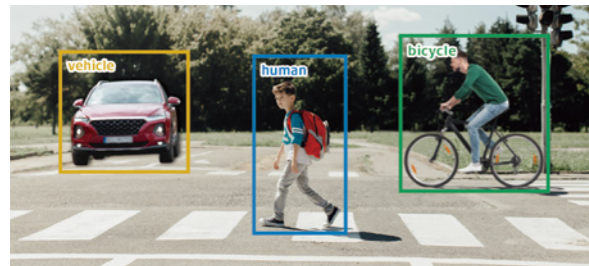


Scan for more information
<https://i-pro.com/global/en/surveillance/technologies/ipro-core-technology>

Edge AI Technology

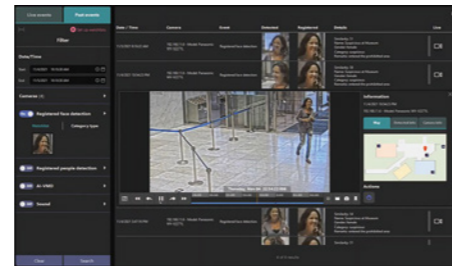
i-PRO Edge AI Cameras

With powerful Edge AI processor at the edge, i-PRO network cameras can process advanced analytics locally and only send the lightweight results as metadata to the backend server.



i-PRO Active Guard

i-PRO Active Guard is a time-saving search software which will help you to find out a specific objects quickly based on the metadata information from i-PRO Edge AI cameras.



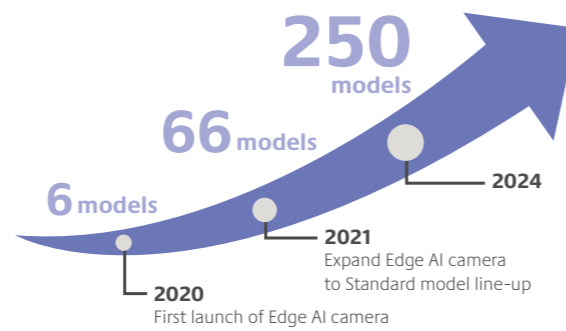
Computer vision chip architecture

Collaborating with AI SoC company Ambarella, i-PRO network cameras have on-boarding advanced analytics technologies inside.



Wide variety of Edge AI Cameras

i-PRO keeps expanding the product line-up of edge AI capable cameras since 2020 and it is growing to 250 models in 2024.



Open Platform

Integration with leading VMS

i-PRO network cameras are well integrated with leading VMS software, and i-PRO Active Guard integrated with in-house VMS Video Insight as well as Genetec Security Center and Milestone XProtect.



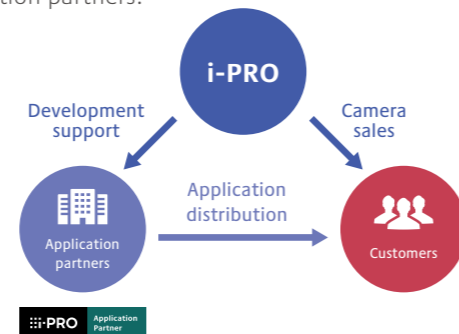
Integration with AI application partners

We will provide various AI applications developed in-house and developed by our global AI application partners.



Provides development support with free SDK/API

Free SDK/API and technical support is available for application partners.



Cyber Security

Built-in cyber security features

i-PRO cameras are designed and built with trust, safety, and security in mind. We take cyber security just as seriously as the lives and assets our products are made to protect. Our cameras include robust security features to meet the needs of customers who comply with security frameworks.



Pre-installed signed Certificates (GlobalSign®)

i-PRO was the first company in the security industry to provide a pre-installed signed certification by 3rd party certificate authority. Data is encrypted by SSL with pre-installed certified key and it will not allow any snooping and alteration.

FIPS 140-2 level 3 certified Secure Element

FIPS (Federal Information Processing Standards) are standards and guidelines for federal computer systems that are developed by NIST. Our latest models of i-PRO network cameras have equipped a Secure Element which is certified the FIPS 140-2 level 3 compliant.

NDAA compliant

i-PRO is proud to confirm that our products are compliant under the National Defense Authorization Act (NDAA). i-PRO doesn't use any manufactures, system on chips or any other components that have been banned under section 889 of the NDAA.



Product Reliability

IK10 Vandal resistant

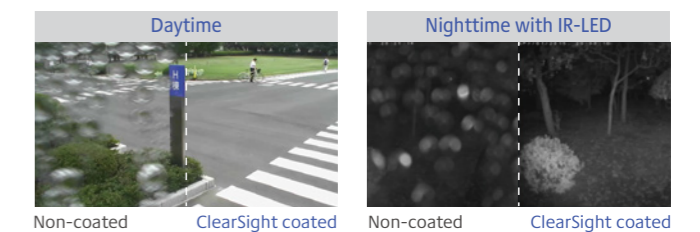
Vandal resistant is one of the most important features of security cameras. IK10 rating indicates that the camera has a superior level of resistance against impact.

All i-PRO outdoor cameras comply the IK10 rating or more, which provides protection from physical damage.



ClearSight Coating

Our ClearSight coating enables to repel water drops on the dome cover in raining. This will provide you clear image in daytime and nighttime.



Anti-Condensation System

A built-in dehumidifier system avoids a condensation on the dome cover.



High durability mechanism for PTZ cameras

Pan/Tilt gear drive mechanism allows our i-PRO PTZ cameras to have longer life and more preciseness than a general belt-drive mechanism.



Salt damage resistant

Salt resistant models with special coating on the camera body and screws will work without a corrosion even in salt-air condition.



Built-in heater (Selected models)

Help to defrost snow or icicles on the camera even in extremely cold regions.



*Available only with special model

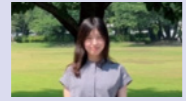
Reduced Bandwidth

AI Smart Coding

i-PRO Edge AI Cameras will detect people and vehicles and optimize the encoding parameters to reduce the bandwidth.



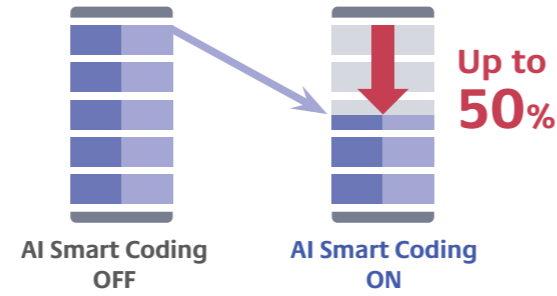
Bitrates of tree area are suppressed even it's swaying.



Bitrates of face and human area are maintained higher for high image quality.

Reduced Bandwidth

i-PRO Cameras' AI Smart coding supports up to 50% reduced bandwidth improvement.



i-PRO NETWORK PRODUCTS

i-PRO cameras are designed for multiple applications and provide a wide range of capabilities, including Enhanced Super Dynamic, High-accuracy Motion Detection, Analytic features, Face Detection, Wide-area Monitoring, and more.



Multi Sensor Cameras

i-PRO multi-sensor cameras capture the highest quality images even in very challenging dynamic environments. These cameras can excel at capturing clear images, even in low light conditions from multiple angles through the use of their four repositionable lenses.



Bullet/Box Cameras

i-PRO fixed box bullet/box cameras provide a clearly visible, fixed angle of view, making it easy to see exactly where they're pointing and record a precisely defined area.



PTZ Cameras

i-PRO PTZ cameras combine unparalleled image quality with incredible durability and reliability. The perfect security camera for wide-area coverage requiring pan, tilt and zoom capability.



360 Degree Cameras

i-PRO vandal resistant 360° dome cameras are ideal for surveillance applications where wide area coverage is required. This type of camera allows for multiple viewing angles and can be used to improve area management as well as detect activities in a large area.



Dome Cameras

i-PRO fixed dome cameras have the power to be more discreet than standard fixed network cameras. i-PRO fixed dome cameras work well in busy open areas since they can conceal which direction they are pointing while still providing excellent and reliable video.



Compact dome

Compact dome cameras with anti-vibration and discreet design are suitable for installation in cars, buses, and other vehicles.



i-PRO mini

i-PRO mini provides powerful open AI technology in a compact format. It blends seamlessly into any surroundings and provides insights to solve a variety of problems. Extendable to marketing functions with third party AI apps.

Ease of Installation

Cameras designed for easier installation

i-PRO multi-sensor cameras are industry thinnest design and blends in seamlessly with environment. The hooking structure and light weight bring you an ease of installation.



Supports USB Wifi adapter (Selected models)

With Wifi USB dongle i-PRO cameras can be accessed via smartphone without connecting the camera to PC or analog monitor. The angle of view and the focus can be adjusted easily.

*Wifi USB dongle needs to be locally procured.



Easy kitting package

i-PRO easy kitting package is helpful for pre-configuration works. Cameras can be configured quickly without opening the box.



Installation Tools

i-PRO provides useful installation tools to support system design and configuration works easier and more efficient.

- Product Selector
- SDT (System Design Tool)
- ICT (i-PRO Configuration Tool)

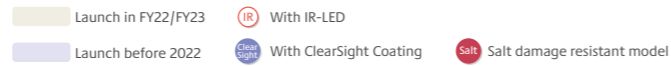


Detail : https://i-pro.com/products_and_solutions/en/surveillance/products/network-camera



i-PRO Camera Series Lineup

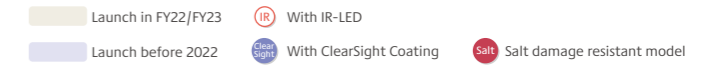
Series definition



	Box	Dome
X series		
19	High resolution AI Camera (FY22) Ai Outdoor: S15700-V2L, S15700-V2LN, S15700-V2LK, S15600-V2L, S15600-V2LN, S15500-V3LN, S15500-V3LK, S15500-V3LN1, S15500-V3L, S15500-F3L, S15500-F6L	41 Ai Outdoor: S25700-V2L, S25700-V2LN, S25700-V2LG, S25600-V2L, S25600-V2LN, S25600-V2LG, S25500-V3L, S25500-V3LN, S25500-V3LG, S25500-V3LN1, S25500-F3L, S25500-F6L, S22700-V2L, S22700-V2LG, S22700-V2L1, S22600-V2L, S22600-V2LG, S22500-V3L, S22500-V3LG, S22500-V3L1, S22500-F3L, S22500-F6L Indoor Vandal: S22700-V2L, S22700-V2LG, S22700-V2L1, S22600-V2L, S22600-V2LG, S22500-V3L, S22500-V3LG, S22500-V3L1, S22500-F3L, S22500-F6L
S series	2MP AI Camera (FY21) Ai Outdoor: S1536LNSA, S1536LA, S1536LA-B, S1536LNA, S1536LNA-B, S1536LTA, S1536LTNA, S1136A Indoor: S1136A	Outdoor: S2536LA, S2536LGA, S2536LGNA, S2536LNA, S2536LTNA, S2536LTA, S2236LA, S2236LA-B, S2236LGA, S2236LGA-B, S2136A, S2136A-B, S2136LA, S2136LA-B, S2136GA, S2136GA-B, S2136LGA, S2136LGA-B
U series	6 U series Camera (FY20) Outdoor: U1542LA, U1532LA, U1142A, U1130A, U11300-V2, U1132A Indoor: U1142A, U1130A, U11300-V2, U1132A	9 Outdoor: U2540LA, U2542LA, U2530LA, U2532LA, U2140LA, U2142LA, U2130LA, U21300-V2L, U2132LA Indoor: U2140LA, U2142LA, U2130LA, U21300-V2L, U2132LA
TTL	25 models	50

i-PRO Camera Series Lineup

Series definition



	Compact	Fisheye	PTZ
X series	4 Onboard Camera ("M" models) Outdoor: S3532LM, SBV131M, S3512LM, SBV111M Indoor: S3531L, S3511L, S3131L, S3111L	3 Fisheye Camera with defrosting dome Outdoor: X4573LM, S4576LMA, S4556LMA Indoor: S4176A, S4156A	8 Aero PTZ Outdoor: SUD638, SUD638-H, SUD638-T VCC (Vehicle Capture Camera) Global Shutter Tele: X5550LT Long Range IR PTZ Outdoor: X6533LNS, X6533LN, S6532LNS, S6532LN
S series	4 Compact Dome Camera (FY19) Outdoor: S3531L, S3511L Indoor: S3131L, S3111L	4 AI Fisheye Camera (FY21) Ai Outdoor: S4576LA, S4556LA Indoor: S4176A, S4156A	25 AI PTZ Camera (FY22) Ai Outdoor: S65501-Z1, S65501-Z1G, S65340-Z4N, S65340-Z4K, S65340-Z2N, S65340-Z2G, S65340-Z2N1, S65340-Z2K, S65302-Z2, S65302-Z2G, S65302-Z2-1, S65301-Z1, S65301-Z1G, S65301-Z1S, S65301-Z1-1, S65300-ZY, S65300-ZYG, S61501-Z1 Indoor: S61302-Z4, S61301-Z2, S61301-Z1, S61300-ZY, S61300-ZYG
U series			10 PTZ Camera (FY22) Outdoor: U65302-Z2, U65302-Z2G, U65301-Z1, U65301-Z1G, U65300-ZY, U65300-ZYG Indoor: U61301-Z2, U61301-Z1, U61300-ZY, U61300-ZYG
TTL	8	7	43

i-PRO Camera Series Lineup

Series definition



Launch in FY22/FY23 With IR-LED
Launch before 2022 With ClearSight Coating

	mini	Multi-Sensor	TTL
X series		4 Multi-directional+PTZ Camera Ai Outdoor Z1x 2MP 4x5MP X86531-Z2 X86531-Z2-1 Z1x 2MP 3x5MP X86530-Z2 X86530-Z2-1	19 models
S series	1 i-PRO mini Ai Fix 2MP S71300-F3A (3.2mm)	20 AI Multi-directional Camera Ai Outdoor Vari 2x4K S85702-V2L S85702-V2L1 Fix 2x4MP S85402-F3L S85402-F3L1 Fix 4x4K S8574L S8574LG S8573L S8573LG Fix 4x6MP S8564L S8564LG S8563L S8563LG Vari 4x4MP S8544L S8544LG S8544 S8544G Vari 3x4MP S8543L S8543LG S8543 S8543G	114
U series		2 Multi-directional Camera Outdoor Vari 2x4MP U85402-V2L U85402-V2L1	27
TTL	1	26	160

Network Camera Model Number Format

Network Camera Model Number Format - 1

W	V	-	S	2	5	3	1	L	T	N
			Series	Form	Environment	Resolution	Serial	Other Features & Minor changes		
			X : eXtraordinary	9 : -	9 : -	9 : -	0 - 9	A-D : Minor Change		
			S : Standard	8 : Multi-Sensor	8 : -	8 : -		L : LED		
			U : Utility	7 : -	7 : -	7 : 4K		N : ClearSight		
				6 : PTZ (Dome)	6 : -	6 :		M : M12		
				5 : -	5 : Outdoor Vandal	5 : 5MP		T : Long focal lens		
				4 : 360 deg.	4 : -	4 : 4MP		S : Salt resistant		
				3 : Compact Dome	3 : -	3 : 2MP				
				2 : Dome	2 : Indoor Vandal	2 :				
				1 : Box	1 : Indoor Normal	1 : 1MP				
				0 : -	0 : -	0 : -				

Network Camera Model Number Format - 2

W	V	-	S	2	5	7	0	0	-	V	2	L	N
			Series	Form	Environment	Resolution	Serial	Version	Lens1		Lens2	Feature	Color
			X : eXtraordinary	8 : Multi-Sensor	6 : Outdoor Vandal	7 : 4K	00 - 99	None	F : Fixed lens		None : No lens	L : IR-LED	None : White
			S : Standard	7 : Mini	5 : Outdoor Vandal	6 : 6MP		A, B, C	V : Vari-focal		Y, 1 to 9 :	M : M12 connector	1, -1 : Black
			U : Utility	6 : PTZ	4 : Outdoor Normal	5 : 5MP			T : Long focal		See below	G : Smoke dome	2, -2 : Silver
				4 : 360-deg	2 : Indoor Vandal	4 : 4MP			Z : Zoom lens			N : ClearSight	3, -3 : Gray
				3 : Compact Dome	1 : Indoor Normal	3 : 2MP			U : No Lens			S : Salt resistant	4, -4 : Brown
				2 : Dome		1 : 1MP						K : ClearSight & Salt resistant	
				1 : Box									

Lens2						
	Y	1	2	3	4	
Lens1	F	-	1-1.9 mm	2-2.9 mm	3-3.9 mm	4-4.9 mm
V, T	-	1x-1.9x	2x-2.9x	3x-3.9x	4x-4.9x	
Z	< 10x	10x-19.9x	20x-29.9x	30x-39.9x	40x-49.9x	

MEMO

OUTDOOR PTZ CAMERAS



MODEL#	WV-X6533LN (LNS)	WV-S6532LN (LNS)	WV-S65340-Z4N (Z4G) (Z4N1) (Z4K)	WV-S65340-Z2N (Z2G) (Z2N1) (Z2K)	WV-SUD638 (-H) (-T)
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	2MP	2MP	2MP	2MP	2MP
Analytics	i-VMD / Auto tracking	i-VMD / Auto tracking	Edge AI / Auto tracking	Edge AI / Auto tracking	VMD / Auto Tracking
Sensor	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/3 CMOS
Focal length / F-number	4.25 to 170 mm, F1.6	4.25 to 95 mm, F1.6	4.25 to 170 mm, F1.6	4.0 to 84.6 mm, F1.6	4.3 to 129 mm, F1.6
Optical Zoom	40x, Motorized	22x, Motorized	40x, Motorized	21x, Motorized	30x, Motorized
Horizontal angle of view (16:9)	1.9° to 66° / Endless pan	3.4° to 66° / Endless pan	2.1° to 65° / Endless pan	3.7° to 77° / 0-350 Pan	2.3° to 64° / Endless pan
Built-in IR-LED	1,150 ft. / 350 m (60W PoE/24V AC)	330 ft. / 100 m	—	—	Optional, 500 ft. / 150 m
Min. Illumination (Color / B&W)	0.015 lx / 0 lx	0.015 lx / 0 lx	0.015 lx / 0.006 lx	0.015 lx / 0.006 lx	0.06 lx / 0 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [144dB]	Yes [144dB]	Yes [144dB]	Yes [105dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.264 Smart Coding
Max. fps @Max. Resolution	60 fps	60 fps	60 fps	60 fps	60 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —
External I/O	Yes	Yes	Yes	Yes	Yes
SD Memory Card Slot	SDXC	SDXC	microSDXC	microSDXC	—
Weather / Vandal Resistant	IP66 / IK10	IP66 / IK10	IP67, IP66 / IK10	IP67, IP66 / IK10	IP67, IP66 / IK10
Operating Temperature	-50 °C to +60 °C (60W PoE/24V AC)	-40 °C to +60 °C (60W PoE/24V AC)	-50 °C to +60 °C (PoE+/24V AC)	-50 °C to +60 °C (PoE+/24V AC)	-50 °C to +60 °C
Power Source / Consumption	60W PoE / PoE+ / 24V AC 50W (60W PoE)	60W PoE / PoE+ / 24V AC 50W (60W PoE)	PoE+ / PoE+ / 24V AC 51W (PoE++)	PoE+ / PoE+ / 24V AC 51W (PoE++)	60W PoE / 100 to 240V AC 51W (60W PoE)
Other	ClearSight, Defroster, Salt resistant (LNS)	ClearSight, Defroster, Salt resistant (LNS)	FIPS 140-2 LV3 [*1], NEMA TS2, ClearSight (Z4N, Z4N1, Z4K), Smoke dome (Z4G), Black (Z4N1), Salt resistant (Z4K), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, ClearSight (Z2N, Z2N1, Z2K), Smoke dome (Z2G), Black (Z2N1), Salt resistant (Z2K), Re-paintable	Built-in wiper, Defroster, Salt resistant ISO14993, Wind load durability 135 mph

OUTDOOR PTZ CAMERAS



MODEL#	WV-S65302-Z2 (Z2G) (Z2-1)	WV-U65302-Z2 (Z2G)	WV-S65501-Z1 (Z1G)	WV-S65301-Z1 (Z1G) (Z1-1) (Z1S)	WV-U65301-Z1 (Z1G)
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	2MP	2MP	5MP	2MP	2MP
Analytics	Edge AI / Auto tracking	VMD	Edge AI / Auto tracking	Edge AI / Auto tracking	VMD
Sensor	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	4.0 to 84.6 mm, F1.6	4.0 to 84.6 mm, F1.6	4.7 to 47.0 mm, F1.6	4.7 to 47.0 mm, F1.6	4.7 to 47.0 mm, F1.6
Optical Zoom	21x, Motorized	21x, Motorized	10x, Motorized	10x, Motorized	10x, Motorized
Horizontal angle of view (16:9)	3.7° to 77° / Endless pan	3.7° to 77° / Endless pan	6° to 57° / Endless pan	6.7° to 62° / Endless pan	6.7° to 62° / Endless pan
Built-in IR-LED	—	—	—	—	—
Min. Illumination (Color / B&W)	0.015 lx / 0.006 lx	0.015 lx / 0.006 lx	0.11 lx / 0.006 lx	0.015 lx / 0.006 lx	0.015 lx / 0.006 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [144dB]	Yes [132dB]	Yes [144dB]	Yes [144dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	60 fps	60 fps	60 fps	60 fps
Audio (In / Out / Built-in MIC)	Yes / Yes[*2] / —	Yes / Yes[*2] / —	Yes / Yes[*2] / —	Yes / Yes[*2] / —	Yes / Yes[*2] / —
External I/O	Yes[*2]	Yes[*2]	Yes[*2]	Yes[*2]	Yes[*2]
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10
Operating Temperature	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C	-30 °C to +55 °C
Power Source / Consumption	PoE+ / 12V DC[*2] 18.4W (PoE+)	PoE+ / 12V DC[*2] 18.4W (PoE+)	PoE+ / 12V DC[*2] 18.4W (PoE+)	PoE+ / 12V DC[*2] 18.4W (PoE+)	PoE+ / 12V DC[*2] 18.4W (PoE+)
Other	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (Z2G), Black (Z2-1), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (Z2G), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (Z1G), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (Z1G), Salt resistant (Z1S), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (Z1G), Re-paintable

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

OUTDOOR PTZ CAMERAS



MODEL#	WV-S65300-ZY (ZYG)	WV-U65300-ZY (ZYG)
Environmental Type	Outdoor	Outdoor
Resolution	2MP	2MP
Analytics	Edge AI / Auto tracking	VMD
Sensor	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	2.9 to 9 mm, F1.3	2.9 to 9 mm, F1.3
Optical Zoom	3.1x, Motorized	3.1x, Motorized
Horizontal angle of view (16:9)	36° to 113° / 0-350 pan	36° to 113° / 0-350 pan
Built-in IR-LED	—	—
Min. Illumination (Color / B&W)	0.01 lx / 0.004 lx	0.01 lx / 0.004 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [144dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	60 fps
Audio (In / Out / Built-in MIC)	Yes / Yes[*2] / —	Yes / Yes[*2] / —
External I/O	Yes[*2]	Yes[*2]
SD Memory Card Slot	microSDXC	microSDXC
Weather / Vandal Resistant	IP66 / IK10	IP66 / IK10
Operating Temperature	-30 °C to +55 °C	-30 °C to +55 °C
Power Source / Consumption	PoE / 12V DC[*2] 12W (PoE)	PoE / 12V DC[*2] 12W (PoE)
Other	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (ZYG), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (ZYG), Re-paintable

INDOOR PTZ CAMERAS



MODEL#	WV-U61301-Z2	WV-S61501-Z1	WV-S61301-Z1	WV-U61301-Z1
Environmental Type	Indoor	Indoor	Indoor	Indoor
Resolution	2MP	5MP	2MP	2MP
Analytics	VMD	Edge AI / Auto tracking	Edge AI / Auto tracking	VMD
Sensor	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	4.0 to 84.6 mm, F1.6	4.7 to 47.0 mm, F1.6	4.7 to 47.0 mm, F1.6	4.7 to 47.0 mm, F1.6
Optical Zoom	21x, Motorized	10x, Motorized	10x, Motorized	10x, Motorized
Horizontal angle of view (16:9)	3.7° to 77° / 0-350 pan	6° to 57° / 0-350 pan	6.7° to 62° / 0-350 pan	6.7° to 62° / 0-350 pan
Built-in IR-LED	—	—	—	—
Min. Illumination (Color / B&W)	0.015 lx / 0.006 lx	0.11 lx / 0.06 lx	0.015 lx / 0.006 lx	0.015 lx / 0.006 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [132dB]	Yes [144dB]	Yes [144dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	30 fps	60 fps	60 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —
External I/O	Yes	Yes	Yes	Yes
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	— / —	— / —	— / —	— / —
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 12.95W (PoE)	PoE / 12V DC 12.95W (PoE)	PoE / 12V DC 12.95W (PoE)	PoE / 12V DC 12.95W (PoE)
Other	FIPS 140-2 LV3 [*1]	FIPS 140-2 LV3 [*1]	FIPS 140-2 LV3 [*1]	FIPS 140-2 LV3 [*1]

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

INDOOR PTZ CAMERAS



MODEL#	WV-S61302-Z4	WV-S61301-Z2
Environmental Type	Indoor	Indoor
Resolution	2MP	2MP
Analytics	Edge AI / Auto tracking	Edge AI / Auto tracking
Sensor	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	4.25 to 170 mm, F1.6	4.0 to 84.6 mm, F1.6
Optical Zoom	40x, Motorized	21x, Motorized
Horizontal angle of view (16:9)	1.9° to 66° / Endless pan	3.7° to 77° / 0-350 Pan
Built-in IR-LED	—	—
Min. Illumination (Color / B&W)	0.015 lx / 0.006 lx	0.015 lx / 0.006 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [144dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	60 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	Yes / Yes / —
External I/O	Yes	Yes
SD Memory Card Slot	microSDXC	microSDXC
Weather / Vandal Resistant	— / —	— / —
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 12.95W (PoE)	PoE / 12V DC 12.95W (PoE)
Other	FIPS 140-2 LV3 [*1]	FIPS 140-2 LV3 [*1]

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

INDOOR PTZ CAMERAS



MODEL#	WV-S61300-ZY (ZYG)	WV-U61300-ZY (ZYG)
Environmental Type	Indoor	Indoor
Resolution	2MP	2MP
Analytics	Edge AI / Auto tracking	VMD
Sensor	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	2.9 to 9 mm, F1.3	2.9 to 9 mm, F1.3
Optical Zoom	3.1x, Motorized	3.1x, Motorized
Horizontal angle of view (16:9)	36° to 115° / 0-350 pan	36° to 115° / 0-350 pan
Built-in IR-LED	—	—
Min. Illumination (Color / B&W)	0.01 lx / 0.004 lx	0.01 lx / 0.004 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [144dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	60 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	Yes / Yes / —
External I/O	Yes	Yes
SD Memory Card Slot	microSDXC	microSDXC
Weather / Vandal Resistant	— / —	— / —
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 12W (PoE)	PoE / 12V DC 12W (PoE)
Other	FIPS 140-2 LV3 [*1], Smoke dome (ZYG)	FIPS 140-2 LV3 [*1], Smoke dome (ZYG)

MULTI-SENSOR CAMERAS



MODEL#	WV-X86531-Z2(Z2-1) WV-X86530-Z2(Z2-1)
Environmental Type	Outdoor
Resolution	PTZ: 2MP Multi: 5MP x4 WV-S86531 5MP x3 WV-S86530
Analytics	Edge AI / Auto tracking
Sensor	PTZ: 1/2.8" CMOS Multi: 1/2.7" CMOS
Focal length / F-number	PTZ: 4.0 to 84.6 mm, F1.6 Multi: 3.2 mm, F2.0
Optical Zoom	PTZ: 21x, Motorized Multi: —
Horizontal angle of view (16:9)	PTZ: 3.7° to 77° / Endless pan Multi: 97° / lens
Built-in IR-LED	—
Min. Illumination (Color / B&W)	PTZ: 0.011 lx / 0.006 lx Multi: 0.12 lx / 0.10 lx
WDR [Dynamic Range]	PTZ: Yes [144dB] Multi: Yes [108dB]
Video Codec	H.265 Smart Coding
Max. fps @Max. Resolution	PTZ: 60 fps Multi: 15 fps
Audio (In / Out / Built-in MIC)	Yes [*2] / Yes [*2] / —
External I/O	Yes [*2]
SD Memory Card Slot	microSDXC
Weather / Vandal Resistant	IP67, IP66 / IK10
Operating Temperature	-40 °C to +55 °C (60W PoE/24V AC)
Power Source / Consumption	PoE++ 35.6 W
Other	FIPS 140-2 LV3 [*1], NEMA TS2, Black (Z2-1)

MULTI-SENSOR CAMERAS



MODEL#	WV-S8574L (LG) WV-S8573L (LG)	WV-S8564L (LG) WV-S8563L (LG)	WV-S8544L (LG) WV-S8543L (LG)	WV-S8544 (G) WV-S8543 (G)
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	8MP(4K) x4 WV-S8574L (LG) 8MP(4K) x3 WV-S8573L (LG)	6MP x4 WV-S8564L (LG) 6MP x3 WV-S8563L (LG)	4MP x4 WV-S8544L (LG) 4MP x3 WV-S8543L (LG)	4MP x4 WV-S8544 (G) 4MP x3 WV-S8543 (G)
Analytics	Edge AI	Edge AI	Edge AI	Edge AI
Sensor	1/2.8 CMOS	1/2.8 CMOS	1/2.7 CMOS	1/2.7 CMOS
Focal length / F-number	3.1 mm, F1.44	3.1 mm, F1.44	2.9 to 7.3mm, F2.0	2.9 to 7.3mm, F2.0
Optical Zoom	—	—	2.5x, Motorized	2.5x, Motorized
Horizontal angle of view (16:9)	108°/lens	108°/lens	43° to 100°/lens	43° to 100°/lens
Built-in IR-LED	131 ft. / 40 m	131 ft. / 40 m	66 ft. / 20 m	—
Min. Illumination (Color / B&W)	0.084 lx / 0 lx	0.084 lx / 0 lx	0.21 lx / 0 lx	0.21 lx / 0.12 lx
WDR [Dynamic Range]	Yes [120dB]	Yes [120dB]	Yes [108dB]	Yes [108dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	15 fps	15 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —
External I/O	Yes [*2]	Yes [*2]	Yes [*2]	Yes [*2]
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP67, IP66 / IK10	IP67, IP66 / IK10	IP67, IP66 / IK10	IP67, IP66 / IK10
Operating Temperature	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Power Source / Consumption	PoE+ 25.4W	PoE+ 25.4W	PoE+ 25.4W	PoE+ 17.3W
Other	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (LG), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (LG), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (LG), Re-paintable	FIPS 140-2 LV3 [*1], NEMA TS2, Smoke dome (G), Re-paintable

MULTI-SENSOR CAMERAS



MODEL#	WV-S85702-F3L (F3L1)	WV-S85402-V2L (V2L1)	WV-U85402-V2L (V2L1)
Environmental Type	Outdoor	Outdoor	Outdoor
Resolution	8MP(4K) x2	4MP x2	4MP x2
Analytics	Edge AI	Edge AI	VMD
Sensor	1/2.8" CMOS	1/2.7" CMOS	1/2.7" CMOS
Focal length / F-number	3.1 mm, F1.4	2.9 to 7.3 mm, F2.0	2.9 to 7.3 mm, F2.0
Optical Zoom	—	2.5x, Motorized	2.5x, Motorized
Horizontal angle of view (16:9)	104°/lens	43° to 100°/lens	43° to 100°/lens
Built-in IR-LED	131 ft. / 40 m	131 ft. / 40 m	131 ft. / 40 m
Min. Illumination (Color / B&W)	0.084 lx / 0 lx	0.21 lx / 0 lx	0.21 lx / 0 lx
WDR [Dynamic Range]	Yes [120dB]	Yes [108dB]	Yes [108dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	15 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —
External I/O	Yes [*2]	Yes [*2]	Yes [*2]
SD Memory Card Slot	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP67, IP66 / IK10	IP67, IP66 / IK10	IP67, IP66 / IK10
Operating Temperature	-40 °C to +55 °C	-40 °C to +55 °C	-40 °C to +55 °C
Power Source / Consumption	PoE+ 18.9W	PoE+ 22.2W	PoE+ 18.9W
Other	FIPS 140-2 LV3 [*1], Black (F3L1)	FIPS 140-2 LV3 [*1], Black (V2L1)	FIPS 140-2 LV3 [*1], Black (V2L1)

OUTDOOR DOME CAMERAS



MODEL#	WV-S25700-V2L (V2LN) (V2LG) (V2LN1)	WV-S25600-V2L (V2LN) (V2LG)	WV-S25500-V3L (V3LN) (V3LG) (V3LN1)	WV-S25500-F3L	WV-S25500-F6L
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	8MP(4K)	6MP	5MP	5MP	5MP
Analytics	Edge AI	Edge AI	Edge AI	Edge AI	Edge AI
Sensor	1/1.8 CMOS	1/1.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	4.3 to 8.6 mm, F1.5	4.3 to 8.6 mm, F1.5	2.9 to 9 mm, F1.3	3.2 mm, F2.0	6.1 mm, F1.6
Optical Zoom	2x, Motorized	2x, Motorized	3.1x, Motorized	—	—
Horizontal angle of view (16:9)	52° to 101°	52° to 101°	33° to 103°	95°	48°
Built-in IR-LED	230 ft. / 70 m	230 ft. / 70 m	180 ft. / 55 m	115 ft. / 35 m	148 ft. / 45 m
Min. Illumination (Color / B&W)	0.04 lx / 0 lx	0.04 lx / 0 lx	0.05 lx / 0 lx	0.12 lx / 0 lx	0.08 lx / 0 lx
WDR [Dynamic Range]	Yes [132dB]	Yes [132dB]	Yes [132dB]	Yes [132dB]	Yes [132dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	30 fps	30 fps	30 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —
External I/O	Yes [*2]	Yes [*2]	Yes [*2]	Yes [*2]	Yes [*2]
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP66 / IK10, 50J	IP66 / IK10, 50J	IP66 / IK10, 50J	IP66 / IK10, 50J	IP66 / IK10, 50J
Operating Temperature	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Power Source / Consumption	PoE / 12V DC [*2] 11.5W (PoE)	PoE / 12V DC [*2] 11.5W (PoE)	PoE / 12V DC [*2] 11.5W (PoE)	PoE / 12V DC [*2] 10.6W (PoE)	PoE / 12V DC [*2] 10.6W (PoE)
Other	FIPS 140-2 LV3 [*1], ClearSight (V2LN) (V2LN1), Smoke dome (V2LG), Black (V2LN1), Re-paintable	FIPS 140-2 LV3 [*1], ClearSight (V2LN), Smoke dome (V2LG), Re-paintable	FIPS 140-2 LV3 [*1], ClearSight (V3LN) (V3LN1), Smoke dome (V3LG), Black (V3LN1), Re-paintable	FIPS 140-2 LV3 [*1], Re-paintable	FIPS 140-2 LV3 [*1], Re-paintable

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

OUTDOOR DOME CAMERAS



MODEL#	WV-U2542LA	WV-U2540LA	WV-S2536LA (LNA) (LGA) (LGNA)	WV-S2536LTA (LTNA)	WV-U2532LA	WV-U2530LA
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	4MP	4MP	2MP	2MP	2MP	2MP
Analytics	VMD	VMD	Edge AI	Edge AI	VMD	VMD
Sensor	1/2.7 CMOS	1/2.7 CMOS	1/2.8 MOS	1/2.8 MOS	1/3 CMOS	1/3 CMOS
Focal length / F-number	2.9 to 7.3 mm, F2.0	3.2 mm, F2.0	2.9 to 9mm, F1.3	9 to 21mm, F1.7	2.9 to 7.3 mm, F2.0	3.2 mm, F2.0
Optical Zoom	2.5x, Motorized	—	3.1x, Motorized	2.3x, Motorized	2.5x, Motorized	—
Horizontal angle of view (16:9)	43° to 100°	100°	36° to 113°	15° to 36°	42° to 97°	97°
Built-in IR-LED	65 ft. / 20 m	65 ft. / 20 m	164 ft. / 50 m	164 ft. / 50 m	98 ft. / 30 m	98 ft. / 30 m
Min. Illumination (Color / B&W)	0.3 lx / 0 lx	0.3 lx / 0 lx	0.007 lx / 0 lx	0.011 lx / 0 lx	0.1 lx / 0 lx	0.1 lx / 0 lx
WDR [Dynamic Range]	Yes [102dB]	Yes [102dB]	Yes [144dB]	Yes [144dB]	Yes [120dB]	Yes [120dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	30 fps	30 fps	60 fps	60 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	— / — / —	— / — / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	— / — / —	— / — / —
External I/O	—	—	Yes [*2]	Yes [*2]	—	—
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP66 / IK10	IP66 / IK10	IP66 / IK10, 50J	IP66 / IK10	IP66 / IK10	IP66 / IK10
Operating Temperature	-30 °C to +50 °C	-30 °C to +50 °C	-40 °C to +60 °C	-40 °C to +60 °C	-30 °C to +50 °C	-30 °C to +50 °C
Power Source / Consumption	PoE 7.2W	PoE 5.3W	PoE / 12V DC [*2] 9.1W (PoE)	PoE / 12V DC [*2] 10.1W (PoE)	PoE 6.7W	PoE 4.8W
Other	—	—	FIPS 140-2 LV3 [*1], ClearSight (LNA) (LGNA), Smoke dome (LGA) (LGNA), Re-paintable	FIPS 140-2 LV3 [*1], ClearSight (LTNA), Re-paintable	—	—

INDOOR VANDAL DOME CAMERAS



MODEL#	WV-S2236LA (LGA) (LA-B) (LGA-B)	WV-U2142LA	WV-U2140LA	WV-S2136LA (LGA) (LA-B) (LGA-B)
Environmental Type	Indoor Vandal	Indoor	Indoor	Indoor
Resolution	2MP	4MP	4MP	2MP
Analytics	Edge AI	VMD	VMD	Edge AI
Sensor	1/2.8 MOS	1/2.7 CMOS	1/2.7 CMOS	1/2.8 MOS
Focal length / F-number	2.9 to 9mm, F1.3	2.9 to 7.3 mm, F2.0	3.2 mm, F2.0	2.9 to 9mm, F1.3
Optical Zoom	3.1x, Motorized	2.5x, Motorized	—	3.1x, Motorized
Horizontal angle of view (16:9)	36° to 114°	44° to 102°	100°	36° to 115°
Built-in IR-LED	164 ft. / 50 m	65 ft. / 20 m	65 ft. / 20 m	164 ft. / 50 m
Min. Illumination (Color / B&W)	0.007 lx / 0 lx	0.3 lx / 0 lx	0.3 lx / 0 lx	0.007 lx / 0 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [102dB]	Yes [102dB]	Yes [144dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	30 fps	30 fps	60 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	— / — / —	— / — / —	Yes / Yes / —
External I/O	Yes	—	—	Yes
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	— / IK10	— / —	— / —	— / —
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 8.7W (PoE)	PoE 6.5W	PoE 5.3W	PoE / 12V DC 8.7W (PoE)
Other	FIPS 140-2 LV3 [*1], Smoke dome (LGA) (LGA-B), Black (LA-B) (LGA-B), Re-paintable	—	—	FIPS 140-2 LV3 [*1], Smoke dome (LGA) (LGA-B), Black (LA-B) (LGA-B)

INDOOR VANDAL DOME CAMERAS



MODEL#	WV-S22700-V2L (V2LG) (V2LI)	WV-S22600-V2L (V2LG)	WV-S22500-V3L (V3LG) (V3LI)	WV-S22500-F3L	WV-S22500-F6L
Environmental Type	Indoor Vandal	Indoor Vandal	Indoor Vandal	Indoor Vandal	Indoor Vandal
Resolution	8MP(4K)	6MP	5MP	5MP	5MP
Analytics	Edge AI	Edge AI	Edge AI	Edge AI	Edge AI
Sensor	1/1.8 CMOS	1/1.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	4.3 to 8.6 mm, F1.5	4.3 to 8.6 mm, F1.5	2.9 to 9 mm, F1.3	3.2 mm, F2.0	6.1 mm, F1.6
Optical Zoom	2x, Motorized	2x, Motorized	3.1x, Motorized	—	—
Horizontal angle of view (16:9)	52° to 101°	52° to 101°	33° to 105°	95°	48°
Built-in IR-LED	164 ft. / 50 m	164 ft. / 50 m	131 ft. / 40 m	82 ft. / 25 m	115 ft. / 35 m
Min. Illumination (Color / B&W)	0.04 lx / 0 lx	0.04 lx / 0 lx	0.05 lx / 0 lx	0.12 lx / 0 lx	0.08 lx / 0 lx
WDR [Dynamic Range]	Yes [132dB]	Yes [132dB]	Yes [132dB]	Yes [132dB]	Yes [132dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	30 fps	30 fps	30 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —	Yes / Yes / —
External I/O	Yes	Yes	Yes	Yes	Yes
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	— / IK10	— / IK10	— / IK10	— / IK10	— / IK10
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 11.5W (PoE)	PoE / 12V DC 11.5W (PoE)	PoE / 12V DC 11.5W (PoE)	PoE / 12V DC 10.6W (PoE)	PoE / 12V DC 10.6W (PoE)
Other	FIPS 140-2 LV3 [*1], Smoke dome (V2LG), Black (V2LI), Re-paintable	FIPS 140-2 LV3 [*1], Smoke dome (V2LG), Re-paintable	FIPS 140-2 LV3 [*1], Smoke dome (V3LG), Black (V3LI), Re-paintable	FIPS 140-2 LV3 [*1], Re-paintable	FIPS 140-2 LV3 [*1], Re-paintable

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

INDOOR DOME CAMERAS



MODEL#	WV-S2136A (-B) (GA) (GA-B)	WV-U2132LA	WV-U21300-V2L	WV-U2130LA
Environmental Type	Indoor	Indoor	Indoor	Indoor
Resolution	2MP	2MP	2MP	2MP
Analytics	Edge AI	VMD	VMD	VMD
Sensor	1/2.8 MOS	1/3 CMOS	1/2.8 CMOS	1/3 CMOS
Focal length / F-number	2.9 to 9mm, F1.3	2.9 to 7.3 mm, F2.0	2.9 to 7.3 mm, F2.0	3.16 mm, F2.0
Optical Zoom	3.1x, Motorized	2.5x, Motorized	2.5x, Motorized	—
Horizontal angle of view (16:9)	36° to 115°	42° to 97°	42° to 97°	97°
Built-in IR-LED	164 ft. / 50 m	98 ft. / 30 m	131 ft. / 40 m	100 ft. / 30 m
Min. Illumination (Color / B&W)	0.007 lx / 0.006 lx	0.1 lx / 0 lx	0.1 lx / 0 lx	0.1 lx / 0 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [120dB]	Yes [120dB]	Yes [120dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	30 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	— / — / —	— / — / Yes	— / — / —
External I/O	Yes	—	—	—
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	— / —	— / —	— / —	— / —
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 8.7W (PoE)	PoE 5.8W	PoE 5.8W	PoE 4.8W
Other	FIPS 140-2 LV3 [*1], Smoke dome (GA) (GA-B), Black (-B) (GA-B)	—	—	—

[*1] FIPS 140-2 level 3-certified secure element is embedded.

COMPACT CAMERAS



MODEL#	WV-S3531L WV-S3532LM	WV-S3511L WV-S3512LM	WV-SBV131M	WV-SBV111M
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	2MP	720P	2MP	720P
Analytics	i-VMD	i-VMD	VMD	VMD
Sensor	1/3 CMOS	1/3 CMOS	1/3 CMOS	1/3 CMOS
Focal length / F-number	2.8 mm, F2.3	2.8 mm, F2.3	1.95 mm, F2.2	1.95 mm, F2.2
Optical Zoom	—	—	—	—
Horizontal angle of view (16:9)	108°	97°	109°	104°
Built-in IR-LED	49 ft. / 15 m	49 ft. / 15 m	—	—
Min. Illumination (Color / B&W)	0.03 lx / 0 lx	0.02 lx / 0 lx	0.1 lx / 0.06 lx	0.04 lx / 0.03 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [134dB]	Yes	Yes
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.264 Smart Coding	H.264 Smart Coding
Max. fps @Max. Resolution	60 fps	60 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	— / — / Yes	— / — / Yes	— / — / —	— / — / —
External I/O	—	—	—	—
SD Memory Card Slot	microSDXC	microSDXC	SDXC	SDXC
Weather / Vandal Resistant	IP66 / IK10	IP66 / IK10	IP6K9K, IP66 / IK10	IP6K9K, IP66 / IK10
Operating Temperature	-30 °C to +50 °C (S3531L) -40 °C to +60 °C (S3532LM)	-30 °C to +50 °C (S3511L) -40 °C to +60 °C (S3512LM)	-40 °C to +60 °C	-40 °C to +60 °C
Power Source / Consumption	PoE 3.8W	PoE 3.8W	PoE 3.8W	PoE 3.8W
Other	Re-paintable, EN45545-2/EN50155-TX/ M12 connector (WV-S3532LM)	Re-paintable, EN45545-2/EN50155-TX/ M12 connector (WV-S3512LM)	MIL-STD-810G, EN50155-T3, EN50121, EN45545, EN50498, ECE-R10, M12 connector	MIL-STD-810G, EN50155-T3, EN50121, EN45545, EN50498, ECE-R10, M12 connector

FISHEYE CAMERAS



MODEL#	WV-S4576LA WV-S4576LMA	WV-S4556LA WV-S4556LMA	WV-S4176A	WV-S4156A
Environmental Type	Outdoor	Outdoor	Indoor	Indoor
Resolution	12MP	5MP	12MP	5MP
Analytics	Edge AI	Edge AI	Edge AI	Edge AI
Sensor	1/2 CMOS	1/3 CMOS	1/2 CMOS	1/3 CMOS
Focal length / F-number	1.4 mm, F1.9	0.84 mm, F2.4	1.4 mm, F1.9	0.84 mm, F2.4
Optical Zoom	—	—	—	—
Horizontal angle of view (16:9)	183°	186°	183°	186°
Built-in IR-LED	45 ft. / 14 m	45 ft. / 14 m	—	—
Min. Illumination (Color / B&W)	0.3 lx / 0 lx	0.15 lx / 0 lx	0.3 lx / 0.2 lx	0.15 lx / 0.1 lx
WDR [Dynamic Range]	[84dB]	Yes [120dB]	[84dB]	Yes [120dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	30 fps	30 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	Yes / Yes / —	Yes / Yes / Yes	Yes / Yes / Yes
External I/O	Yes	Yes	Yes	Yes
SD Memory Card Slot	SDXC	SDXC	SDXC	SDXC
Weather / Vandal Resistant	IP66 / IK10, 50J	IP66 / IK10, 50J	— / —	— / —
Operating Temperature	-40 °C to +60 °C	-40 °C to +60 °C	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 12.95W (PoE)	PoE / 12V DC 12.5W (PoE)	PoE / 12V DC 8.6W (PoE)	PoE / 12V DC 6.7W (PoE)
Other	FIPS 140-2 LV3 [*1], Re-paintable, Railway Application/ M12 connector (S4576LMA)	FIPS 140-2 LV3 [*1], Re-paintable, Railway Application/ M12 connector (S4556LMA)	FIPS 140-2 LV3 [*1]	FIPS 140-2 LV3 [*1]

COMPACT CAMERAS



MODEL#	WV-S71300-F3A	WV-S3131L	WV-S3111L
Environmental Type	Indoor	Indoor	Indoor
Resolution	2MP	2MP	720P
Analytics	Edge AI	i-VMD	i-VMD
Sensor	1/2.8 MOS	1/3 CMOS	1/3 CMOS
Focal length / F-number	3.2mm, F2.0	2.8 mm, F2.3	2.8 mm, F2.3
Optical Zoom	—	—	—
Horizontal angle of view (16:9)	81.1°	108°	97°
Built-in IR-LED	—	49 ft. / 15 m	49 ft. / 15 m
Min. Illumination (Color / B&W)	0.2 lx / 0.2 lx	0.03 lx / 0 lx	0.02 lx / 0 lx
WDR [Dynamic Range]	—	Yes [144dB]	Yes [134dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	30 fps	60 fps	60 fps
Audio (In / Out / Built-in MIC)	— / — / Yes	— / — / Yes	— / — / Yes
External I/O	—	—	—
SD Memory Card Slot	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP44 / —	— / —	— / —
Operating Temperature	-10 °C to +40 °C	0 °C to +40 °C	0 °C to +40 °C
Power Source / Consumption	PoE / USB Type-C 8.2W (PoE)	PoE 3.8W	PoE 3.8W
Other	FIPS 140-2 LV3 [*1], USB I/F for setting thru Wi-Fi	—	—

BULLET CAMERAS



MODEL#	WV-S15700-V2L (V2LN) (V2LK)	WV-S15600-V2L (V2LN)	WV-S15500-V3L (V3LN) (V3LK)	WV-S15500-F3L	WV-S15500-F6L
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	8MP(4K)	6MP	5MP	5MP	5MP
Analytics	Edge AI	Edge AI	Edge AI	Edge AI	Edge AI
Sensor	1/1.8 CMOS	1/1.8 CMOS	1/2.8 CMOS	1/2.8 CMOS	1/2.8 CMOS
Focal length / F-number	4.3 to 8.6mm, F1.5	4.3 to 8.6mm, F1.5	2.9 to 9 mm, F1.3	3.2 mm, F2.0	6.1 mm, F1.6
Optical Zoom	2x, Motorized	2x, Motorized	3.1x, Motorized	—	—
Horizontal angle of view (16:9)	53° to 104°	53° to 104°	34° to 106°	98°	49°
Built-in IR-LED	230 ft. / 70 m	230 ft. / 70 m	180 ft. / 55 m	115 ft. / 35 m	148 ft. / 45 m
Min. Illumination (Color / B&W)	0.04 lx / 0 lx	0.04 lx / 0 lx	0.05 lx / 0 lx	0.12 lx / 0 lx	0.08 lx / 0 lx
WDR [Dynamic Range]	Yes [132dB]	Yes [132dB]	Yes [132dB]	Yes [132dB]	Yes [132dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	30 fps	30 fps	30 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —
External I/O	Yes [*2]	Yes [*2]	Yes [*2]	Yes [*2]	Yes [*2]
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10
Operating Temperature	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Power Source / Consumption	PoE / 12V DC [*2] 11.5W (PoE)	PoE / 12V DC [*2] 11.5W (PoE)	PoE / 12V DC [*2] 11.5W (PoE)	PoE / 12V DC [*2] 10.6W (PoE)	PoE / 12V DC [*2] 10.6W (PoE)
Other	FIPS 140-2 LV3 [*1], ClearSight (V2LN) (V2LK), Re-paintable, Salt resistant (V2LK)	FIPS 140-2 LV3 [*1], ClearSight (V2LN), Re-paintable	FIPS 140-2 LV3 [*1], ClearSight (V3LN) (V3LN1) (V3LK), Black (V3LN1) / Re-paintable, Salt resistant (V3LK)	FIPS 140-2 LV3 [*1], Re-paintable	FIPS 140-2 LV3 [*1], Re-paintable

[*1] FIPS 140-2 level 3-certified secure element is embedded.

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

BULLET CAMERAS



MODEL#	WV-U1542LA	WV-S1536LA (LA-B) (LNA) (LNA-B) (LNSA)	WV-S1536LTA (LTNA)	WV-U1532LA
Environmental Type	Outdoor	Outdoor	Outdoor	Outdoor
Resolution	4MP	2MP	2MP	2MP
Analytics	VMD	Edge AI	Edge AI	VMD
Sensor	1/2.7 CMOS	1/2.8 MOS	1/2.8 MOS	1/3 CMOS
Focal length / F-number	2.9 to 7.3 mm, F2.0	2.9 to 9mm, F1.3	9 to 21mm, F1.7	2.9 to 7.3 mm, F2.0
Optical Zoom	2.5x, Motorized	3.1x, Motorized	2.3x, Motorized	2.5x, Motorized
Horizontal angle of view (16:9)	44° to 103°	37° to 117°	15° to 36°	43° to 100°
Built-in IR-LED	65 ft. / 20 m	230 ft. / 70 m	230 ft. / 70 m	30 m (Approx. 100 ft)
Min. Illumination (Color / B&W)	0.3 lx / 0 lx	0.007 lx / 0 lx	0.011 lx / 0 lx	0.1 lx / 0 lx
WDR [Dynamic Range]	Yes [102dB]	Yes [144dB]	Yes [144dB]	Yes [120dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	30 fps	60 fps	60 fps	30 fps
Audio (In / Out / Built-in MIC)	— / — / —	Yes [*2] / Yes [*2] / —	Yes [*2] / Yes [*2] / —	— / — / —
External I/O	—	Yes [*2]	Yes [*2]	—
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10
Operating Temperature	-30 °C to +50 °C	-40 °C to +60 °C	-40 °C to +60 °C	-30 °C to +50 °C
Power Source / Consumption	PoE 7.2W	PoE / 12V DC [*2] 9.1W (PoE)	PoE / 12V DC [*2] 10.6W (PoE)	PoE 6.7W
Other	—	FIPS 140-2 LV3 [*1], ClearSight (LNA) (LNA-B) (LNSA), Black (LA-B) (LNA-B), Re-paintable, Salt resistant (LNSA)	FIPS 140-2 LV3 [*1], ClearSight (LTNA), Re-paintable	—

BOX CAMERAS



MODEL#	WV-S1136A	WV-U1142A	WV-U1132A	WV-U11300-V2	WV-U1130A
Environmental Type	Indoor	Indoor	Indoor	Indoor	Indoor
Resolution	2MP	4MP	2MP	2MP	2MP
Analytics	Edge AI	VMD	VMD	VMD	VMD
Sensor	1/2.8 MOS	1/2.7 CMOS	1/3 CMOS	1/2.8 CMOS	1/3 CMOS
Focal length / F-number	CS Mount *Lens is not included	2.9 to 7.3 mm, F2.0	2.9 to 7.3 mm, F2.0	2.9 to 7.3 mm, F2.0	3.2 mm, F2.0
Optical Zoom	—	2.5x, Motorized	2.5x, Motorized	2.5x, Motorized	—
Horizontal angle of view (16:9)	—	44° to 103°	43° to 100°	43° to 100°	100°
Built-in IR-LED	—	—	—	—	—
Min. Illumination (Color / B&W)	0.008 lx / 0.004 lx @F1.2	0.3 lx / 0.12 lx	0.1 lx / 0.04 lx	0.1 lx / 0.04 lx	0.1 lx / 0.04 lx
WDR [Dynamic Range]	Yes [144dB]	Yes [102dB]	Yes [120dB]	Yes [120dB]	Yes [120dB]
Video Codec	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding	H.265 Smart Coding
Max. fps @Max. Resolution	60 fps	30 fps	30 fps	30 fps	30 fps
Audio (In / Out / Built-in MIC)	Yes / Yes / —	— / — / —	— / — / —	— / — / Yes	— / — / —
External I/O	Yes	—	—	—	—
SD Memory Card Slot	microSDXC	microSDXC	microSDXC	microSDXC	microSDXC
Weather / Vandal Resistant	— / —	— / —	— / —	— / —	— / —
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C
Power Source / Consumption	PoE / 12V DC 6.3W (PoE)	PoE 4.8W	PoE 4.3W	PoE 4.3W	PoE 3.8W
Other	FIPS 140-2 LV3 [*1]	—	—	—	—

[*1] FIPS 140-2 level 3-certified secure element is embedded. [*2] Option cable WV-QCA501A is needed.

NVR with a build-in PoE+ switch WJ-NU101 / 201 / 300 / 301 Series

NU Series Features

- NVR with a build-in PoE+ switch
- Easy installation
- Scalable Storage
- Perfectly adapted to i-PRO AI products
- High security
 - GlobalSign® certificates pre-installed
 - FIPS 140-2 LV3[*1]
- Connectivity
 - RTSP supported
- Remote monitoring
 - Monitoring from anywhere
 - Monitoring multiple locations

[*1] FIPS 140-2 level 3-certified secure element is embedded



Detail : https://i-pro.com/products_and_solutions/en/surveillance/products/new-products/new-nvr-build-poe-switch



NVR with a build-in PoE+ switch



MODEL#	WJ-NU101	WJ-NU201	WJ-NU300	WJ-NU301
	NVR WITH A BUILD-IN POE+ SWITCH			
Video Compression	H.265 / H.264 / JPEG			
Max Camera Channel	4 ch	8 ch	16 ch	16 ch
Video Throughput	Recording / Output		48Mbps/48Mbps	
	64Mbps/64Mbps		128Mbps/128Mbps	
HDD slot	1 HDD (Main Unit)			2 HDDs (Main Unit)
Max HDD capacity for each SATA	Up to 20 TB			
Network Interface	4x 10BASE-T 100BASE-TX (RJ45, PoE+)	1x 10BASE-T 100BASE-TX 1000BASE-T (RJ45)	8x 10BASE-T 100BASE-TX (RJ45, PoE+)	1x 10BASE-T 100BASE-TX 1000BASE-T (RJ45)
	8x 10BASE-T 100BASE-TX (RJ45, PoE+)	1x 10BASE-T 100BASE-TX 1000BASE-T (RJ45)	16x 10BASE-T 100BASE-TX (RJ45, PoE+)	1x 10BASE-T 100BASE-TX 1000BASE-T (RJ45)
PoE budget	4 port Total Max 47W Each port Max:30W	8 port Total Max 106W Each port Max:30W	8port Total Max 106W Each port Max:30W	16port Total Max 233W Each port Max:30W
RAID	—			RAID1
Monitor Output	2 x HDMI (1x 4K, 1x Full HD)			
Alarm port	In:4 / out:1 (Additional General purpose I/O :2)			
Simultaneous User Access	Max 16 users			
Operating temperature	0 °C to 45°C			
Dimensions (inch)	(W)340 x (D)230 x (H)44(mm) (W)13-25/64 x (D)9-1/16 x (H)1-47/64(inches)			(W)420 x (D)300 x (H)88(mm) (W)16-17/32 x (D)11-13/16 x (H)3-15/32(inches)
Weight	2.1 kg / 4.6 lbs			4.7 kg / 10.4 lbs
	RACK MOUNT COMPATIBILITY			
WV-QRM001	Rack mount bracket for vertical installation			—
WV-QRM101	Rack mount bracket			—
WV-QRM201	Rack mount bracket for wall mounting			Rack mount bracket

Rack mount bracket

OPTIONAL ACCESSORIES				
Usage	Vertical installation	Rack mount Bracket	Wall mounting	Rack mount Bracket
MODEL#	WV-QRM001	WV-QRM101	WV-QRM201	
Image				

NVRs NX400 / NX300 Series

NX400 / NX300 Series Features

- Secure high bandwidth recording
- PC-less surveillance solution
- High reliability and redundancy
- Scalable Storage
- GlobalSign® certificates pre-installed



Detail : <https://i-pro.com/global/en/surveillance/products/wj-nx400>



NVRs



MODEL#	WJ-NX400	WJ-NX300	WJ-HXE400
	NETWORK VIDEO RECORDERS		HDD EXTENSION UNIT
Video Compression	H.265 / H.264 / JPEG	H.265 / H.264 / JPEG	H.265 / H.264 / JPEG
Camera Channel	Default / Max 64 ch / 128 ch	16 ch / 32 ch	—
Video Throughput	Recording / Output 384 Mbps / 256 Mbps	256 Mbps / 256 Mbps	—
HDD slot	9 HDDs (Main Unit) 54 HDDs (with 5 x WJ-HXE400)	4 HDDs (Main Unit) 22 HDDs (with 2 x WJ-HXE400)	9 HDDs
Max HDD capacity for each SATA	Up to 8 TB will be supported.		
RAID	RAID 1, 5, 6	RAID 1, 5, 6 [*1]	RAID 1, 5, 6
Monitor Output	1 x BNC, 2 x HDMI (1x 4K, 1x Full HD)	1 x BNC, 2 x HDMI (1x 4K, 1x Full HD)	—
Alarm Port	32 inputs / 4 outputs	9 inputs / 1 output	—
Simultaneous User Access	Max 16 users	Max 16 users	—
Network Interface	2 x 10BASE-T 100BASE-TX 1000BASE-T 1 x 10BASE-T 100BASE-TX (for Maintenance)	2 x 10BASE-T 100BASE-TX 1000BASE-T	—
Dimensions (inch)	(W)430 mm x (H)132 mm x (D)413 mm {(W)16-15/16 inches x (H)5-3/16 inches x (D)16-1/4 inches}	(W)420 mm x (H)88 mm x (D)370 mm {(W)16-9/16 inches x (H)3-7/16 inches x (D)14-9/16 inches}	(W)430 mm x (H)132 mm x (D)413 mm {(W)16-15/16 inches x (H)5-3/16 inches x (D)16-1/4 inches}
Weight	11.5 kg {25.4 lbs} (no HDD) / 20 kg {44.1 lbs} (9HDDs)	7.0 kg {15.4 lbs} (no HDD)	24.3 lbs. (no HDD) / 43.0 lbs. (9 HDDs)

OPTIONAL ACCESSORIES

MODEL#	FOR WJ-NX400	FOR WJ-NX300	FOR WJ-HXE400
Rack Mount Kit	(Included)	 Rack Mount Bracket WJ-Q202	(Included)
HDD Extension Unit	 HDD Extension Unit WJ-HXE400	 HDD Extension Unit WJ-HXE400	—
Additional Camera CH Kit	WJ-NXE40W (32 camera license)	WJ-NXE30W (8 camera license)	—
Secure Communication Kit	WJ-NXS01W (1 camera) / WJ-NXS04W (4 cameras) / WJ-NXS16W (16 cameras) / WJ-NXS32W (32 cameras)		
RAID Kit	—	WJ-NXR30W [*1]	—

[*1]: Additional RAID Kit WJ-NXR30W is necessary to activate RAID 1/5/6 features.

Management Software

i-PRO Management Software

WV-ASM300W

Extension Software

WV-ASE202W / WV-ASE203W / WV-ASE205W

Easy setting: New WV-ASM300W software enable a whole setting from camera configuration to recorder configuration.

- Up to 100 recorders, 64 encoders and 256 directly connected cameras can be registered. Up to 6,400 cameras registered in the recorders and 256 cameras registered in the encoders are automatically registered in the WV-ASM300W (the number of the cameras depends on the recorder and encoder).
- Encryption of SSL and data encryption support latest "AES-256bit key" strong encryption.
- MP4 data direct download from WJ-NX400, NX300, NU101, NU201, NU300, NU301.
- When used with WJ-NX400, NX300, NU101, NU201, NU300, NU301, VMD, thumbnail search can be operated.
- Selecting the camera icon in map window, a still image of the camera is overlaid.
- Live window, Map window in addition to the Operation window (3 monitors).
- Control using the System Controller WV-CU980
<https://i-pro.com/global/en/surveillance/products/wv-cu980>
- 3D Dewarp: virtual PTZ operations for better operability and monitoring experience.

*To use the multi-monitor function, it is necessary to install an additional video card on the PC in use.



*monitor displays are optional.

WV-ASE202W

- Expand the maximum numbers of screens to 64.
- Up to 4 live windows.
- Multi-monitor function using up to 6 PC monitors.
- To display the operation window, the map window and the 4 map windows simultaneously.

WV-ASE203W

- Expand the maximum numbers of registered recorders, encoders and cameras to 100, 64 and 256 respectively.
- Up to 4 licenses for the WV-ASE203W can be added.

WV-ASE205W

- Visibility Enhancement Function.

Spatial Tonal Correction	Snowfall and Rainfall Noise Reduction	Multi-frame Synthesis Noise Reduction
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Storage Device / Microphone / PoE Injector / Coaxial-LAN Converter

STORAGE DEVICE



MODEL#	WV-SDA032G	WV-SDA064G	WV-SDA128G	WV-SDA256G	WV-SDA512G
Type	SDHC	SDXC	SDXC	SDXC	SDXC
Storage	32GB	64GB	128GB	256GB	512GB

MODEL#	WV-SDB032G	WV-SDB064G	WV-SDB128G	WV-SDB256G
Type	microSDHC	microSDXC	microSDXC	microSDXC
Storage	32GB	64GB	128GB	256GB

MICROPHONE



MODEL#	WV-PM500
Directionality	Non-directional
Power	Plug-in power type, 1.5 VDC to 5 VDC, Max. current: 300 uA
Terminal / Cable	3.5 mm stereo mini plug (L ch monaural) Cable length: 2.6 m {8.53 feet}
Operating Temperature	-20 °C to +60 °C [-4 °F to +140 °F]
Dust and Water Resistant	IP65

POE INJECTOR



MODEL#	WV-PU201	WV-PU201F
Power Input	100 to 240V AC	100 to 240V AC
Max. Power output	60W @ -10 °C to +40 °C / 30W @ -10 °C to +50 °C	60W @ -10 °C to +40 °C / 30W @ -10 °C to +50 °C
Network Interface	10BASE-T/100BASE-TX/1000BASE-T, RJ45 connector (x2)	10BASE-T/100BASE-TX/1000BASE-T, RJ45 connector (x2) Standard SFP module port (LC type) (x1)
IEEE Standards	IEEE802.3bt/at/af	IEEE802.3bt/at/af
Dimensions	65 mm (W) x 36 mm (H) x 163 mm (D) {2" 9/16 (W) x 1" 13/32 (H) x 6" 13/32 (D)}	80 mm (W) x 50 mm (H) x 184 mm (D) {3" 5/32 (W) x 1" 31/32 (H) x 7" 1/4 (D)}

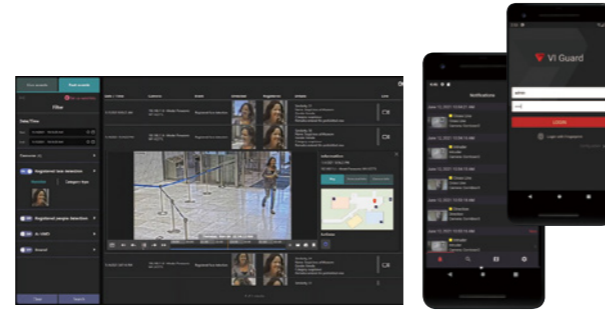
COAXIAL-LAN CONVERTER



MODEL#	WJ-PC200	WJ-PR204	WJ-PR201
Device Type	Camera Side Unit	4CH Receiver	1CH Receiver
Max. Distance w/ AC adaptor	PoE cam — non - PoE cam —	1,640 ft. (500 m)	
Optional Rack Mount	—	500 m (1,640 ft)	2.0 km (6,561 ft)
		BY-HCA10A	

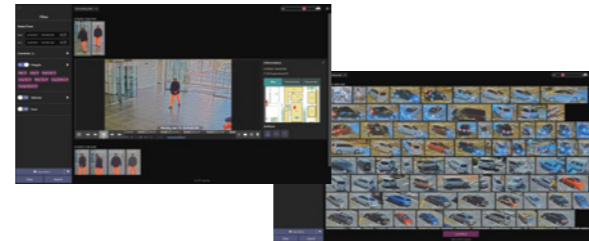
Immediate response to or prevention of incidents

- Detect various events such as intruder, gunshot sound, and watchlist alarm for specific faces and people. Rule-based action on VMS enables automation of system behavior when an event occurs.
- A mobile application* frees you from work in a monitoring room. Also, by linking the PC software and mobile application, the necessary information can be transmitted from a person in the monitoring room to the security guards outside.



Significant reduction in post investigation time

- Searching by face and characteristics of people and vehicles enables fast searching in a matter of seconds, not hours.
- This advantage is maximized by many supported attributes with high precision based on i-PRO deep learning technology and by the high image quality of the i-PRO camera.



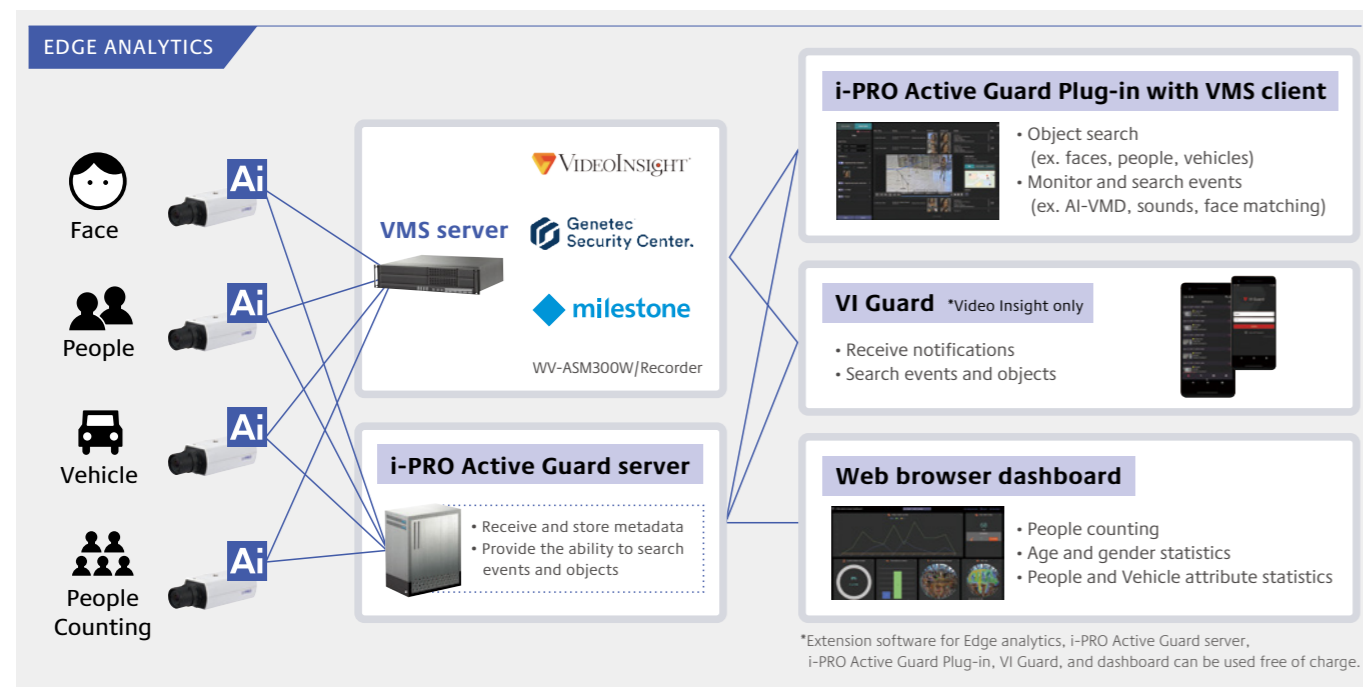
Customizable dashboard display for business intelligence

- The dashboard on the web browser shows people counting, face and gender statistics, and people and vehicle attribute statistics. This can be utilized for business intelligence.
- Users can customize the content, size, location, data display period, etc. shown according to their needs.



Flexible system architecture

- Fully integrated into devices from Genetec and Milestone as well as Video Insight.
- No need for expensive analysis server thanks to edge analytics.
- By installing and using the required AI Edge Applications for each camera, you can use the performance of AI without waste.



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.

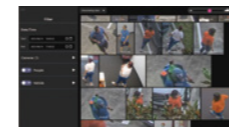
- Change your surveillance system from reactive to proactive and anticipate situations before they occur.
- i-PRO surveillance users can gain added sight awareness with intelligent analytics via scene analysis.
- Optimized feature solutions for schools, municipalities, and commercial facilities.
- i-PRO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

ANALYTICS AT THE EDGE



AI-VMD/AI Counting

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/counting, scene-change detection, loitering detection and directional detection.



AI People/Vehicle/Face Detection

These analytics allow you to detect people, vehicles, faces, and send 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 Scene Change Detection

Scene Change Detection is the first AI-based analytic application that provides easy on-site learning of a scene. When anomalies occur within the camera's field of view, an alert can be sent to security and operations teams. It's particularly good at an object left behind or illegal parking scenarios.



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.



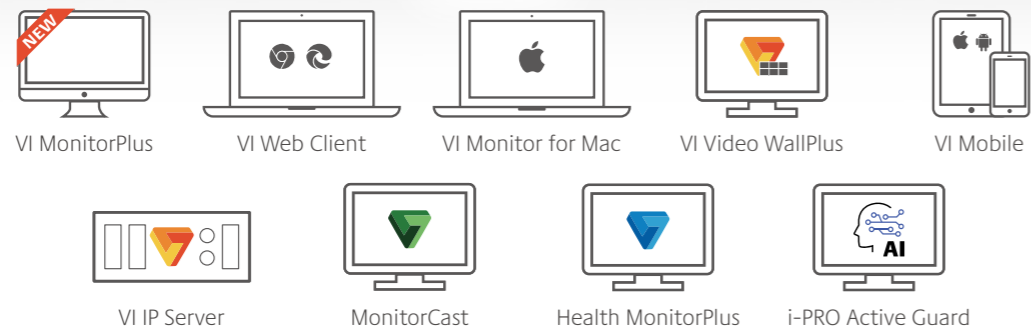
REASONS TO GO WITH i-PRO

Ease of Use and Low Total Cost of Ownership

- Best TCO with no annual maintenance fees.
- Add powerful search functionality to your security operation with i-PRO's S-series AI-enabled cameras and the new i-PRO Active Guard plug-in.
- Industry-leading, discreet, AI analytics, high-resolution, low-light performance, cyber-secure cameras.
- Fully-integrated open platform works with over 150 camera manufacturers and major third-party access control systems.
- Scalable enterprise solutions with intelligent analytics and seamless third-party plug-ins and integrations.
- Unlimited client seats through any platform including Windows, MacOS, Apple TV, Web browser, and Android and iOS Mobile Apps.



CLIENTS



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.

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.



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.



License Plate Recognition

License Plate and MMC Recognition (Vaxtor)

VI with Vaxtor VaxALPR has been enhanced to detect a vehicle's make, model and color (MMC) when utilizing i-PRO AI-enabled cameras. With i-PRO's open AI platform, additional hardware and servers are not required since the VaxALPR application runs solely on the edge, leveraging the i-PRO AI camera's powerful SoC.



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

VI 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.



System Design Tool

The System Design Tool is a great tool that can be used on the web anytime, anywhere, greatly reducing the work required for system design.

Features and Benefits

- Interactive:
When the camera setting conditions are changed, the perception and size of the subject can be immediately simulated.
- Optimization:
The ideal camera placement and number can be calculated while confirming the overlap in the recording range between cameras.
- Accessible:
Data saved as a project can be accessed from the web at any time.
- Utilization:
Saved device lists and results of storage calculation can be exported in CSV format and utilized for proposal data.

<https://i-pro.com/global/en/surveillance/tools/sdt>



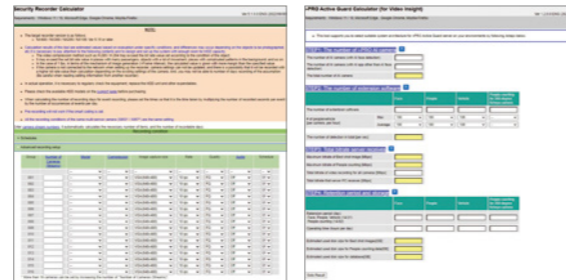
Recorder Calculation

It is possible to estimate the number of recorders and necessary options that can be used according to the number of cameras, network bandwidth, and number of recording days.

Estimate condition			
Number of units	HDD capacity	Recording days (Recording group)	HDMI output
Automatic	2TB	150 days	Yes
Result			
Bandwidth		Data Size	
12.25 Mbps		21.97 TB	
Model	MAIN	EXT	HDD (MAIN / EXT)
VJ-NX400K	1	VJ-NX4400	1
Group01		2	
Group02		-	
Total		11	
Maximum recordable days (Same HDD / Same Unit / Max Config)		150 / 245 / 737 days	
Camera Kits		Secure Communication Kit	
Stream numbers		Stream numbers	
VJ-NX520W		VJ-NX516W	
VJ-NX40W		VJ-NX501W	

System design calculators

Configuration of the recorder and i-PRO Active Guard software can be done with simple operations such as camera selection. Advanced knowledge and skills are not required.



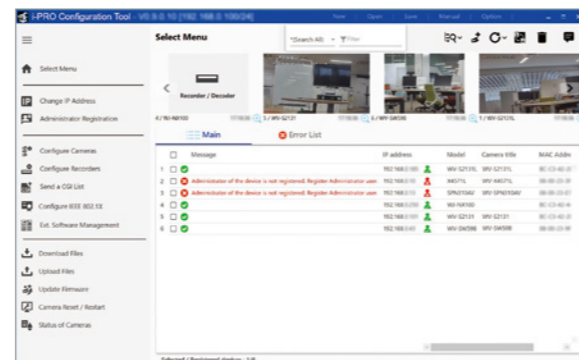
<https://i-pro.com/global/en/surveillance/tools/calculators>



i-PRO Configuration Tool (iCT)

i-PRO Configuration Tool is designed to efficiently configure the settings and maintenance of up to 1,024 i-PRO devices (network cameras, disk recorders, etc.) through a personal computer via a network.

<https://i-pro.com/global/en/surveillance/tools/ict>



Features and Benefits

- Camera batch settings for up to 1,024 multiple cameras
- Camera advanced settings with image stream viewing screen
- AI extension software batch installation and advanced settings
- Generation of devices settings report with camera view images
- Collective maintenance of devices, including automatic firmware updates

Related products of i-PRO Configuration Tool

- i-PRO Configuration Tool for Genetec/for Milestone
- i-PRO Configuration Tool for Tablet (Android/iOS)

i-PRO Mobile APP

Applications for Smartphone/Tablet PC

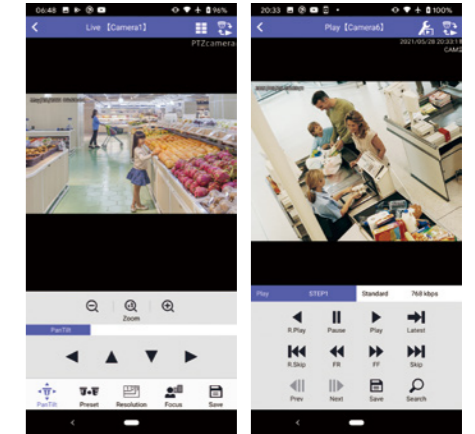
Overview

i-PRO Mobile APP is a smartphone application that can view the images of the following i-PRO devices.

- Network cameras
- Network interface units
- Digital disk recorders
- Network disk recorders

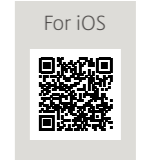
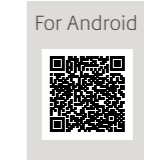
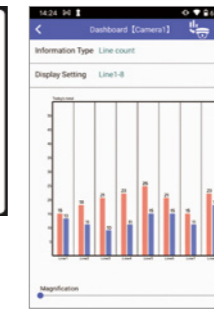
Please check the supported devices.

<https://i-pro.com/global/en/surveillance/products/i-pro-mobile-app>



Functions

- Check live video
- Control live video
- Play recorded video
- Download playback video
- Check statistics in a graph
- Alarm notification



i-PRO Product Selector

Overview

The Product Selector/Accessory Selector is a web/mobile application that can select by rich filters the model that meets your various needs from the i-PRO lineup of network cameras and accessories.

<https://i-pro.com/global/en/surveillance/productsselector>



*Product Selector on Web site will be renewed at the end of Nov.

Accessory Selector working with Product Selector selection function

After selecting a camera that meets your requirements, you can easily select the accessories needed for installation by simply setting the installation location (wall, ceiling, pole, etc.).

Product Selector for smartphones

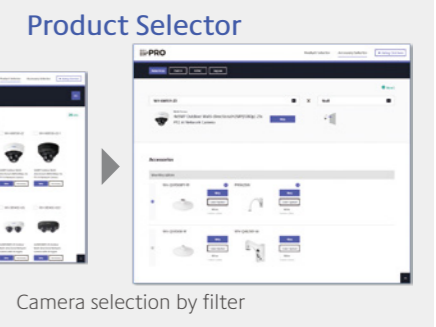
Camera/accessory search function

This application can be used to select the model that meets your needs from i-PRO network cameras and accessories.

Simple suggestion function (New)

Anyone can easily perform tasks from camera selection to proposal creation.

By simply taking a picture of the camera installation location and the angle of view to be captured by the camera with a smartphone and placing the camera icon on the MAP, the model compatible with the actual installation location is selected and the proposal results are displayed. Proposal results can also be sent to registered addresses by email.



Camera selection by filter



	Box	Dome	Compact
Wall	<p>Direct mount</p> <p>S15**L* / S15**-L* U15**L*</p> <p>QJB500-W *if needed</p>	<p>Direct mount</p> <p>U2**L* / U2**-L* / S21** S2**L* / S2**-L*</p> <p>U21*2L* / U21** / S21** S22**-L* / S22**L*</p> <p>S25**-L* / U25*2L* U21*0L* / U25*0L*</p> <p>U21*2L* / U21**-L* / S21** S22**-L* / S22**L*</p> <p>S25**-L* / U25*2L*</p> <p>U/S21** / U21**-L* / S22**L* *Except U2130 / U2140</p> <p>S25**-L* / U25*2L*</p> <p>QWL500-W QJB500-W *if needed</p> <p>QSR501-W QWL501-W</p> <p>QSR100-W</p> <p>QSR505-W</p>	<p>Direct mount</p> <p>S3**</p> <p>S31** S35**</p> <p>QWL500-W QWL500-G</p> <p>QJB500-W QJB500-G *if needed</p>
Pole / Corner	<p>Wall mount FOR POLE QPL500-W</p> <p>Wall mount FOR CORNER QCN500-W</p>	<p>Wall mount FOR POLE *Except direct mount QPL500-W</p> <p>Wall mount FOR CORNER *Except direct mount QCN500-W</p>	<p>Wall mount FOR POLE *Except direct mount QPL500-W</p> <p>Wall mount FOR CORNER *Except direct mount QCN500-W</p>
Ceiling	<p>Direct mount</p> <p>S15**L* / S15**-L* / U15**L*</p> <p>S11** *require lens sold separately</p> <p>U11** / U11**-L*</p> <p>QCL102-W</p> <p>QLR100-W</p>	<p>Direct mount</p> <p>U2**L* / U2**-L* / S21** S2**L* / S2**-L*</p> <p>U21*0L* / U25*0L*</p> <p>U21*2L* / U21** / S21** S22**-L* / S22**L*</p> <p>U21*0L* / U25*0L*</p> <p>S25**-L* / U25*2L*</p> <p>QJB501-W QJB502-W</p> <p>Q105A</p> <p>QAT502-W</p> <p>QJB504-W</p> <p>Junction box (3rd party)</p>	<p>Direct mount</p> <p>S3**</p> <p>S35**L</p> <p>S35**</p> <p>S31**</p> <p>QJB502-G</p> <p>QAT502-G</p> <p>QAT502-W</p> <p>Junction box (3rd party)</p>

	Fisheye	PTZ	mini	Multi-Sensor
Wall	<p>Direct mount</p> <p>S4**</p> <p>S45**L S41**</p> <p>S45**L S41**</p> <p>QWL500-W QJB500-W *if needed</p> <p>QSR501-W QWL501-W</p>	<p>Direct mount</p> <p>S65*4*-L* 10x 21x Outdoor Indoor U/S65300-ZY* U/S61300-ZY*</p> <p>10x 21x Outdoor Indoor U/S65*0*-Z** U/S65300-ZY* U/S61300-ZY*</p> <p>U/S61*01-Z*</p> <p>U/S61*01-Z*</p> <p>S61302-Z*</p> <p>X6533LN / S6532LN</p> <p>QSR504-W QWL501-W</p> <p>QWL501-W</p> <p>QSR501-W</p> <p>QJB500-W *if needed</p> <p>QWL500-W</p> <p>QWD100C-W QWD100G-W</p> <p>QWL100-W</p> <p>Q122A</p>		<p>Direct mount</p> <p>S/U85*02-Z*</p> <p>S85** X8653*-Z*</p> <p>S/U85*02-Z* QSR508-W</p> <p>S/U85*02-Z* QSR507-W</p> <p>S/U85*02-Z* QWL500-W</p> <p>QJB500-W *if needed</p>
Pole / Corner	<p>Wall mount FOR POLE *Except direct mount QPL500-W</p> <p>Wall mount FOR CORNER *Except direct mount QCN500-W</p>	<p>Wall mount FOR POLE *Except direct mount QPL500-W Q188</p> <p>Wall mount FOR CORNER *Except direct mount QCN500-W Q189</p>		<p>Wall mount FOR POLE *Except direct mount QPL500-W</p> <p>Wall mount FOR CORNER *Except direct mount QCN500-W</p>
Ceiling	<p>Direct mount</p> <p>S4**</p> <p>S41**</p> <p>S41**</p> <p>S41**</p> <p>S45**L / S45**LM</p> <p>S45**L / S45**LM</p> <p>QCL102-W</p> <p>QLR100-W</p> <p>Q105A</p> <p>QJB501-W *Included in only S45**L</p> <p>QJB504-W</p>	<p>Direct mount</p> <p>U/S6**00-Z**</p> <p>S65*4*-L* 10x 21x U/S65*0*-Z** U/S65300-ZY*</p> <p>S61302-Z*</p> <p>U/S61*01-Z*</p> <p>QCL500-W</p> <p>QJB504-W</p> <p>QJB501-W</p> <p>Q105A</p> <p>Q105A</p> <p>QCD100C-W / QCD100G-W</p>	<p>S71300-F3 QCL102-W</p> <p>S71300-F3 QLR100-W</p>	<p>Direct mount</p> <p>S85**</p> <p>S/U85*02-Z*</p> <p>X8653*-Z</p> <p>S857** S854**</p> <p>S857** S854**</p> <p>QJB503-W</p> <p>Q105A</p>

	Box	Dome	Compact
Hanging		<p>U21*2L*/U21***-****/S21**</p> <p>S22***-****/S22**L*</p> <p>S25***-****/S25**L**/U25*2L*</p> <p>U21*0L*/U25*0L*</p> <p>QSR501-W QCL501-W</p> <p>QCL100-W (ISO) x2pcs QCL101-W (ANSI) x2pcs *require pipe sold separately *Indoor use only</p>	<p>S31**</p> <p>S35**</p> <p>QCL100-W (ISO) x2pcs QCL101-W (ANSI) x2pcs *require pipe sold separately *Indoor use only</p> <p>*S35** (Gray color) and QCL100/101-W (White color), those colors are different</p>
Embedded		<p>U21*2L*/U21***-****/S21**</p> <p>S22***-****/S22**L*</p> <p>S25***-****/S25**L**/U25*2L*</p> <p>QEM100-W</p> <p>QEM500-W *Indoor use only</p>	

	Fisheye	PTZ	mini	Multi-Sensor
Hanging	<p>S45**L</p> <p>S41**</p> <p>QSR501-W</p> <p>QCL501-W</p> <p>QCL100-W (ISO) x2pcs QCL101-W (ANSI) x2pcs *require pipe sold separately</p>	<p>S65*4*-****</p> <p>S65*0*-Z*</p> <p>S65*300-ZY*</p> <p>S65*101-Z*</p> <p>S61302-Z*</p> <p>X6533LN S6532LN</p> <p>QSR504-W</p> <p>QSR501-W</p> <p>QCL501-W</p> <p>Q121B</p> <p>10x 21x</p> <p>Outdoor Indoor</p> <p>QCL100-W (ISO) x2pcs QCL101-W (ANSI) x2pcs *require pipe sold separately *Indoor use only</p>		<p>S85***</p> <p>X8653*-Z</p> <p>S/J85*02-Z*</p> <p>QSR503-W</p> <p>QSR508-W</p> <p>QSR507-W</p> <p>QCL501-W</p>
Embedded		<p>U/S65*0*-Z1</p> <p>U/S6530*-Z2</p> <p>S61302-Z*</p> <p>U/S61300-ZY</p> <p>U/S65300-ZY</p> <p>U/S61*01-Z*</p> <p>QEM503-W *Indoor use only</p> <p>QEM504-W *Indoor use only</p> <p>QEM101-W</p> <p>QEM501-W *Indoor use only</p> <p>QEM502-W *Indoor use only</p> <p>QED100C-W QED100G-W</p>		<p>X8653*-Z</p> <p>QEM506-W *Indoor use only</p>

Model number structure

W V Q SR 5 0 3 F W

Product Type	Serial	Option	Version	Color
EM : Embedded	AT : Attachment	M : Male screw (ISO)	None, A, B	G : Gray
CL : Ceiling	CA : Cable	M1 : Male screw (ANSI)		S : Silver
WL : Wall	LR : Light Rail	F : Female screw (ISO)		B : Black
PL : Pole	CD : Ceiling Dome	F1 : Female screw (ANSI)		W : White
CN : Corner	WD : Wall+Dome cover	C : Clear Dome		
SR : Shroud	ED : Embedded+Dome cover	G : Smoke Dome		
JB : Junction Box	DC : Dome cover	S : Salt resistant		
		N : ClearSight		

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- The SD, SDHC, miniSDHC, microSDHC, SDXC and microSDXC Logos are trademarks of SD-3C LLC.
- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is a trademark of Google LLC.
- All other trademarks identified herein are the property of their respective owners.

Important

- Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.
- i-PRO Co., Ltd. cannot be held responsible for the performance of the network and/or other manufacturers' products used on the network.
- The same catalog is provided for all countries. Some accessories may not be available in some countries.

Security Cautions

- When using the products in this catalog, take appropriate measures to avoid the following security breaches:
 - Disclosure of private information via the products.
 - Unauthorized use of products by a third party.
 - Interference or suspension of use of products by third party.
 - All pictures are simulated.
 - Design and specifications are subject to change without notice.