



Industry thinnest* multi-sensor cameras with AI Engine •the thinnest : i-PRO own research as of February 2022 4x4MP(16MP) Outdoor Multi-Sensor Network Camera with AI Engine

i-PRO releases 8 the industry thinnest multi-sensor cameras with AI Engine with lineup of 4MP/6MP/4K, 3eyes/4eyes. It is installed AI analytics applications which identify people and vehicles automatically, and users are able to start the latest surveillance technologies easily. It is designed to reduce installation time(thin and light weight) and continuous view assistance provides you 360/270-degree continuous images.

Key features

- The thinnest multi-sensor camera (3.5 inches/90 mm)
 It can be fitted in not only outside, but it also is fitted in inside the facility.
 (Low profile/Blends in seamlessly with environment)
 Even though it is rated IK10, it achieves the light weight body.
- A variety kinds of AI Apps selection

It can install and use up to 4 different types of AI Apps all together. Using AI processor which identifies object as people or vehicle, it will reduce false alarm compared to conventional model. As result, it can be used many industries.

- Easy installation
 - · Just 1 LAN cable covers 4 directions.
 - \cdot Thin and hook architecture make easy installation
 - \cdot Continuous view assistance by using smartphone navigates you the best angle position.
 - · You can change angle by using motorized zoom after installation.*4MP model only
- High security

New multi-sensor camera has equipped FIPS 140-2 level3 certified hardware to upgrade its security standard. Combining pre-installing digital certificates issued by a third party organization (Global Sign) and this, we can declare i-PRO high security level to those who cares cyber security.

Key i-PRO Spec.

- 4 x 4MP(16MP) 2688x1520 up to 30fps
- 360° coverage with one IP address
- Intelligent Auto (with Al Engine)
- Super Dynamic 108dB
- Color night vision (0.21 to 0.3 lx)
- Smart Coding (with Al Engine)
- Remote zoom and focus
- Continuous view assistance
- Wide range tilt angle adjustment mechanism
- ONVIF $^{\ensuremath{\mathbb{R}}}$ Profile G / M / S / T
- *ONVIF is a trademark of ONVIF, Inc.
- FIPS 140-2 level3 certified

Industry examples

- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Education
- Retail







For Global

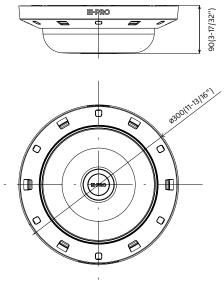
Specifications

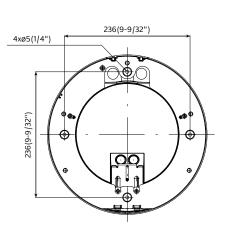
-		tions	· · ·				
Camera			4x 1/2.7 type CMOS image sensor				
	Minimum Illumination		Color : 0.21 lx (-G: 0.59 lx) {30IRE, F1.44, 1/30 s} *1				
			Color: 0.3 lx (-G: 0.85 lx) {50IRE, F1.44, 1/30 s}				
			BW : 0.12 lx (-G: 0.34 lx) {50IRE, F1.44,1/30 s}				
	White Balance		ATW1 / ATW2 / AWC				
	Maximum shutter		30 fps mode: Max.1/10000s to Max.16/30s				
			25 fps mode: Max.1/10000s to Max.16/25s				
	Intelligent Auto		On / Off				
	Super Dynamic		On / Off, The level can be set in the range of 0 to 31.				
	Dynamic Range		Max. 108 dB(Super Dynamic: On, Level: 31)				
	Adaptive Black Stretch		The level can be set in the range of 0 to 255.				
	Back light compensation /		BLC (Back light compensation) / HLC (High light compensation) /				
	High light compensation Fog compensation Maximum gain (AGC)		Off (only when Super dynamic / Intelligent Auto : Off) On / Off (only when Intelligent auto / auto contrast adjust : Off)				
			The level can be set in the range of 0 to 11.				
	Color/BW (ICR)		Off / On / Auto1(Normal) / Auto2(IR Light) / Auto3(SCC)				
	IR LED Light						
	Digital Noise Reduction		The level can be set in the range of 0 to 255.				
	Panorama		Panorama mode (H: 180 deg.)				
		otion Detection (VMD)	On / Off, 4 areas available				
	Scene Change Detection (SCD)		On / Off, 1 areas available				
	Audio Detection		On / Off				
		d Classification	Selectable from Gunshot, Yell, Vehicle horn, Glass break				
	Al Analytics Privacy Zone		Yes				
			On / Off, Up to 8 zones available				
	VIQS	Zone	On / Off, Up to 8 zones available				
	Image rotation ^{*2} Camera Title (OSD)		0° (Off) 90° 180° (Upside-down) / 270° On / Off, Up to 40 characters, Up to 2 Lines (alphanumeric characters, marks)				
	Focus Adjustment		Auto focus				
ens	Optical zoom		2.5x (Motorized zoom / Motorized focus)				
ens	Extra zoom		max 10.5x (2.5x – 10.5x when resolution is 640x360)				
	Focal length		2.9 mm{1/8 inches} - 7.3 mm{1/4 inches}				
	Angular Field of View		Horizontal: 43°(TELE) - 100°(WIDE), Vertical: 24°(TELE) - 56°(WIDE)				
	Maximum Aperture Ratio		1: 2.0(WIDE) - 1: 3.0(TELE)				
	Focus range		1 = 2.0(WIDE) = 1 = 3.0(TELE) $1 = m \{3.28 \text{ ft}\} - \infty$				
DORI		(25ppm / 8ppf)	Wide : 45.1 m / 148.0 ft, Tele : 147.7 m / 484.6 ft				
JURI		2 (62.5ppm / 19ppf)	Wide : 43.111 / 146.011, Tele : 147.711 / 464.011 Wide : 18.0 m / 59.2 ft, Tele : 59.1 m / 193.8 ft				
			Wide: 18.0 m / 59.2 ft, Tele: 59.1 m / 193.8 ft Wide: 9.0 m / 29.6 ft, Tele: 29.5 m / 96.9 ft				
	Recognize (125ppm / 38ppf)		Wide: 4.5 m / 14.8 ft, Tele: 14.8 m / 48.5 ft				
wetom o	Identify (250ppm / 76ppf) on Chip (SoC)		Ambarella CV2				
		soc)	Ambarella CV2 Camera 1. 2. 3. 4 :				
Adjusting	g Angle						
			Horizontal : ±125° (Adjust by horizontal (PAN) angle)				
			Vertical : +10° to +105° (Adjust by vertical (TILT) angle)				
			Yaw : ±90° (Adjust by azimuth (YAW) angle)				
			Twist : ±30°				
			*The above is the adjustable range of a single camera.				
			The adjustable range of each camera varies according to				
			the positional relationship with other cameras.				
Browser	Camera Control		Brightness, AUX On / Off				
JUI	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High				
			Audio Output : On / Off Volume adjustment : Low / Middle / High				
	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese				
	Browser*3		Microsoft Edge, Firefox, Google Chrome				
etwork			10Base-T / 100Base-TX / 1000Base-T, RJ45 connector				
	Resolution		[16 : 9 mode]				
	H.265/ H.264/ JPEG (MJPEG)		2688 x 1520 / 2560 x 1440 / 1920×1080 /1280 x 720 / 640×360 / 320×180				
			a contract the second sec				
		Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort				
	H.265/	Transmission Mode Transmission Type	Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast				

Madanasala	Smart Coding	GOP (Group of pictures) control :				
Network	smart county	On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off				
		*On (Frame rate control) and On (Advanced) are only available with H.265. Smart VIQS: On (High)/On (Low)/Off, Smart P-picture control: On/Off				
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps				
	Audio compression	G.711 : 64 kbps				
		AAC-LC ^{*5} : 64 kbps / 96 kbps / 128 kbps				
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)				
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3,				
	Supported Flotocol	IPV6 : [CP/IP, UDP/IP, H1P, H1P, SSL/1LS, SMIP, DNS, NIP, SMMPV1/V2/V3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, LLDP, MQTT IPv4 : TCP/IP, UDP/IP, HTTP, SSL/ILS, RTSP, RTP, RTP(RTCP, SMTP, DHCP, DNS, DONS, NTF, SMMPV1/v2/V3, UPP, IGMP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, LLDP, MOTT				
	No. of Simultaneous Users	Up to 24 users (Depends on network conditions)				
	Secure	FIPS 140-2 level3				
	SDXC/SDHC/SD	H.265 / H.264 recording :				
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure				
	wentory card	JPEG recording :				
		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure				
		Compatible SDXC/SDHC/SD Memory Card :				
		microSDXC memory card : 64 GB, 128 GB, 256 GB, 512 GB				
		microSDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB				
		microSD memory card : 2 GB				
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals				
	ONVIF [®] Profile	G/M/S/T				
Alarm	Alarm Source	3 terminals input, VMD alarm, SCD alarm, Command alarm, Audio detection alarm				
/	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,				
		HTTP alarm notification Indication on browser, TCP alarm notification output				
Input/	Monitor Output (for adjustment)	_				
Output	Audio input*6	ø3.5 mm stereo mini jack				
-	For microphone input :	Recommended applicable microphone : Plug-in power type				
		(Sensitivity of microphone : -48 dB±3 dB (0 dB=1 V/Pa, 1 kHz))				
		Input impedance : Approx. 2 kΩ (unbalanced)				
		Supply voltage : 2.4 V ±0.5 V				
	For line input :	Input level : Approx. –10 dBV				
	Audio Output*6	ø3.5 mm stereo mini jack (monaural output)				
		Output impedance : Approx. 600 Ω (unbalanced)				
		Output level : -20 dBV				
	External I/O Terminals*6	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)				
		ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ ALARM OUT/ AUX OUT) (x1)				
General	Safety	UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1				
	EMC	FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55024				
	Power Source and	PoE+ (IEEE802.3at compliant):				
	Power Consumption	DC 54 V : 320 mA/Approx. 17.3 W (Class 4 device)				
	Ambient Operating	-40 °C to +60 °C {-40 °F to 140 °F}				
	Temperature	(Power On range: -20 °C to +60 °C {-4 °F to 140 °F})				
		Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C(165 °F)				
	Ambient Operating Humidity	10 to 100 % (no condensation)				
	Anti-Condensation System	Temish element + Heater + moisture absorption gel				
	Water and Dust Resistance	IP67/IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant				
	Shock Resistance	IK10 (IEC62262)				
	Other standard support	NEMA TS 2 (2.2.7-2.2.9)				
	Dimensions	When using the attachment plate only :				
		ø300 mm × 90 mm (H) {ø11-13/16 inches ×3-17/32 inches (H)}				
	Mass (approx.)	When using the attachment plate only : Approx. 3.3 kg {7.28 lbs}				
	Finish	Main body : Aluminum die cast, i-PRO white				
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)				
		Dome cover : PC resin, Clear				
		PC resin, Smoke (G)				

*1 Converted value
*2 When the 320x180 resolution is used, the "90°" and "270°" settings are not available.
*3 For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132>.
*4 Transmission for each stream can be individually set.
*5 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
*6 When using with these, WV-QCA501A cable is required.

Appearance





Unit : mm (inches)

https://i-pro.com/global/en/surveillance/products/i-pro-ai-application

AI Video Motion Detection (AI-VMD)

Advanced video analysis technology detects objects (faces, people, cars, motorcycles) in a specified area. (Intruder Detection, Loitering Detection, Direction Detection, Cross Line Detection)

AI Face Detection

Detects faces with high precision even in low-light, backlit, and mask-wearing environments. (Max. 2 cameras working)

AI People Detection

Extract the characteristics of human face / clothing and classify them into meaningful categories such as gender, age, and clothing color.

3rd party applications are also available.

https://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list

Optional Accessories

AI Vehicle Detection

Extract vehicle characteristics and classify them into meaningful categories such as type and color.

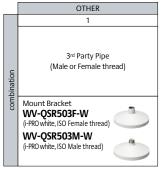
Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

AI Occupancy Detection

AI Non mask Detection

Detecting the congestion via network camera with AI engine enables that information to be used direct visitors in advance or help store staff work more efficiently.

	WALL	POLE	CORNER	HANGING			CEILING	
	1	1	1	1	2	3	1	2
tion	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Pole Mount Bracket WV-QPL500-W (i-PRO white)	Corner Mount Bracket WV-QCN500-W (i-PRO white)	Ceiling Mount Bracket WV-QCL501-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-W (i-PRO white)	Ceiling Mount Bracket WV-QCL100-W ^{*1} (i-PRO white)	Base Bracket WV-QJB503-W (i-PRO white)	Ceiling Mount Bracket WV-Q105A (Silver)
	- 0.	μ. MΛ	Û.		•For indoor installation only.	*For indoor installation only.	*The actual product may differ.	•For indoor installation only.
	Mount Bracket WV-QSR503-W (i-PRO white)	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Mount Bracket WV-QSR503-W (i-PRO white)	Mount Bracket WV-QSR503M-W (i-PRO white, ISO Male thread)	3 rd Party Pipe (i-PRO white, ISO Male thread)		Base Bracket WV-QJB503-W (i-PRO white)
	\sim	-	-	\sim				*The actual product may differ.
		Mount Bracket WV-QSR503-W (i-PRO white)	Mount Bracket WV-QSR503-W (i-PRO white)			Mount Bracket WV-QSR503F-W (i-PRO white, ISO Female thread)		
		\sim	\sim			C		



Dome Cover

Smoke dome cover WV-QDC501G



*WV-QCA501APK is package of 10 cables. *The color of the grommet rubber may differ depending on

the production time, but the performance and mounting method will not change.

Trademarks and registered trademarks

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- Android is a trademark of Google LLC.
 ONVIF is a trademark of ONVIF, Inc.

- 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.

Masses and dimensions are approximate.
 Specifications are subject to change without notice.



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