

WV-S8544 WV-S8544G

(-G:Smoke Dome type)

Industry thinnest* multi-sensor cameras with Al 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 Al Apps all together. Using Al 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.
 - · Thin and hook architecture make easy installation
 - · 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 AI Engine)
- Super Dynamic 108dB
- Color night vision (0.21 to 0.3 lx)
- Smart Coding (with AI Engine)
- Remote zoom and focus
- Continuous view assistance
- Wide range tilt angle adjustment mechanism
- ONVIF® 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







Specifications

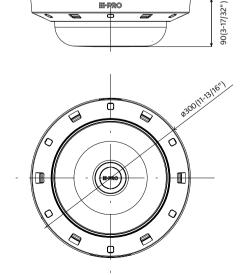
Camera	Image Sensor		4x 1/2.7 type CMOS image sensor			
	Minimum Illumination		Color: 0.21 lx (-G: 0.59 lx) {30IRE, F1.44, 1/30 s} *1			
	William mallillation		Color: 0.3 lx (-G: 0.85 lx) {50lRE, F1.44, 1/30 s}			
			BW: 0.12 lx (-G: 0.34 lx) {50lRE, F1.44, 1/30 s}			
	White B	alance	ATW1 / ATW2 / AWC			
	Maximum shutter		30 fps mode: Max.1/10000s to Max.16/30s			
			25 fps mode: Max.1/10000s to Max.16/25s			
	Intellige	ent 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		Off (only when Super dynamic / Intelligent Auto : Off)			
	Fog compensation		On / Off (only when Intelligent auto / auto contrast adjust : Off)			
	Maximum gain (AGC)		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.			
	Panorar	na	Panorama mode (H: 180 deg.)			
	Video M	otion Detection (VMD)	On / Off, 4 areas available			
		ange Detection (SCD)	On / Off, 1 areas available			
	Audio D	etection	On / Off			
	Al Soun	d Classification	Selectable from Gunshot, Yell, Vehicle horn, Glass break			
	Al Analy		Yes			
	Privacy	Zone	On / Off, Up to 8 zones available			
	VIQS		On / Off, Up to 8 zones available			
	Image rotation*2		0° (Off) / 90° / 180° (Upside-down) / 270°			
	Camera Title (OSD)		On / Off, Up to 40 characters, Up to 2 Lines (alphanumeric characters, marks			
	Focus Adjustment		Auto focus			
Lens	Optical		2.5x (Motorized zoom / Motorized focus)			
	Extra zo		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 ra		1 m {3.28 ft} - ∞			
DORI		(25ppm / 8ppf)	Wide: 45.1 m / 148.0 ft, Tele: 147.7 m / 484.6 ft			
		(62.5ppm / 19ppf)	Wide: 18.0 m / 59.2 ft, Tele: 59.1 m / 193.8 ft			
		ze (125ppm / 38ppf)	Wide: 9.0 m / 29.6 ft, Tele: 29.5 m / 96.9 ft			
Custom o		(250ppm / 76ppf)	Wide: 4.5 m / 14.8 ft, Tele: 14.8 m / 48.5 ft Ambarella CV2			
System o		soc)				
Adjusting	g Angle		Camera 1, 2, 3, 4 : Horizontal : ±125° (Adjust by horizontal (PAN) angle)			
			Vertical : ±125 (Adjust by nonzontal (PAIN) 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			
GUI	Audio		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High			
do.	Addio		Audio Output : On / Off Volume adjustment : Low / Middle / High			
	CIII / Satus Manu Languara		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese			
	GUI / Setup Menu Language Browser*3		Microsoft Edge, Firefox, Google Chrome			
			10Base-T / 100Base-TX / 1000Base-T, RJ45 connector			
Manager			[16:9 mode]			
Network	Resolution		[io . a mode]			
Network		264/ IDEC (MIDEC)	2688 v 1520 / 2560 v 1440 / 1020 v1090 / 1290 v 720 / 640 v260 / 220 v190			
Network	H.265/ H	.264/ JPEG (MJPEG)				
Network		Transmission Mode	2688 x 1520 2560 x 1440 1920×1080 1280 x 720 640×360 320×180 Constant bit rate VBR Frame rate Best effort Unicast port (AUTO) Unicast port (MANUAL) Multicast			

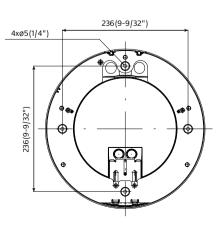
Network	Smart Coding	GOP (Group of pictures) control :			
		On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off			
		*On (Frame rate control) and On (Advanced) are only available with H.265			
		Smart VIQS: On (High) / On (Low) / Off, Smart P-picture control: On / Off			
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps			
		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 IPV6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3 DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, LLDP, MQTT IPV4 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS NTP, SNMPv1/v2/v3, UPPP, ICMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, LLDP, MQTT			
	Supported Protocol				
	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 failur 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 alarn			
Alailli	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)			
	Addio Output 9	Output impedance : Approx. 600 \(\Omega\) (unbalanced) Output level : -20 dBV			
	External I/O Terminals*6	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)			
	External I/O Terrimidis	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			
General	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				
	Anti-Condensation System	10 to 100 % (no condensation)			
	Anti-Condensation System Water and Dust Resistance	Temish element + Heater + moisture absorption gel IP67/IP66 (IEC 60529), Type 4X (UL50E), NEMA 4X compliant			
	Shock Resistance				
	Other standard support	IK10 (IEC62262) 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

Appearance

Unit: mm (inches)





^{*1} Converted value

*2 When the 32Ox180 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.

Al Analytics applications

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

Al 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 $\it l$ 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

AI Vehicle Detection

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

Al Non mask Detection

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

AI Occupancy 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.

Optional Accessories

■ Mount Bracket / Other

	WALL	POLE	CORNER		HANGING		PARAPET
	1	1	1	1	2	3	1
combination	Wall Mount Bracket PWM40W (White)	Pole Mount Bracket PAPM4W (White)	Corner Mount Bracket PACA4W (White)	Ceiling Mount Bracket WV-QCL501-W (White)	Ceiling Mount Bracket WV-QCL101-W (White)	Ceiling Mount Bracket WV-QCL101-W*1 (White)	Mount Bracket WV-QSR503F1-W (White, ANSI Female thread)
	Se is				*For indoor installation only.	*For indoor installation only.	
	Mount Bracket WV-QSR503F1-W (White, ANSI Female thread)	Wall Mount Bracket PWM40W (White)	Wall Mount Bracket PWM40W (White)	Mount Bracket WV-QSR503-W (White)	Mount Bracket WV-QSR503M1-W (White, ANSI Male thread)	3 rd party 1½" NPT pipe (Male thread)	Parapet Mount Bracket PPRM35W (White)
		Mount Bracket WV-QSR503F1-W (White, ANSI Female thread)	Mount Bracket WV-QSR503F1-W (White, ANSI Female thread)			Mount Bracket WV-QSR503F1-W (White, ANSI Female thread)	

^{*1:} It's possible to be used on the camera side and ceiling side. If used on both side, 2pieces are required.

	CEIL	ING	OTHER		
combination	1	2	1		
	Base Bracket WV-QJB503-W (White) *The actual product may differ.	Ceiling Mount Bracket WV-Q105A (Silver) *For indoor installation only.	3 rd party 1 ½" NPT pipe (Male or Female thread)		
		Base Bracket WV-QJB503-W (White)	Mount Bracket WV-QSR503F1-W (White, ANSI Female thread)		
		*The actual product may differ.	WV-QSR503M1-W (White, ANSI Male thread)		

Dome Cover

Smoke dome cover **WV-QDC501G**

Cable

I/O Cable
WV-QCA501A
WV-QCA501APK



^{*}WV-QCA501APK is package of 10 cables.

Trademarks and registered trademarks

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
- 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.



^{*}The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change.