



The new Standard by i-PRO video surveillance

2MP(1080p) IR Indoor Vandal Dome Network Camera with AI Engine

The S-Series network cameras offer a new standard in i-PRO video surveillance with drastically improved image quality with advanced technology. It comes with pre-installed AI analytics applications that detects people and vehicles with accuracy, allowing you to easily start state-of-the-art video surveillance.

The camera can be configured while keeping the unit in the box with the acclaimed "Easy Kitting Packaging", making the installation process smooth and easy.

Key Features

- Drastically improved image quality by advanced technology and AI intelligent Auto
- Pre-installed AI analytics applications to detect human and vehicles. Ready for installing 3rd party applications
- Detecting suspicious sound like Gunshot, Yell, Vehicle horn, and Glass break, with external microphones
- Easy Kitting Package enabling installers to configure cameras easily while keeping the unit in the box
- i-PRO Configuration Tool "iCT" can set up 1024 cameras at the same time.
- (iCT page : https://i-pro.com/global/en/surveillance/tools/ict)

Key i-PRO Spec.

- 2MP (1080p)
- Intelligent Auto (with AI Engine)
- Super Dynamic 144dB
- Color night vision (0.018 to 0.025 lx)
- Smart Coding (with AI Engine)
- Built-in IR LED
- Vandal Resistant
- ONVIF[®] Profile G / M / S / T
- *ONVIF is a trademark of ONVIF, Inc.

Industry examples

- Airport (Passport control / Security checkpoint / Ticket counter)
- Retail / Bank / Education / Hospital / Building





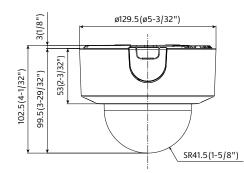
Specifications

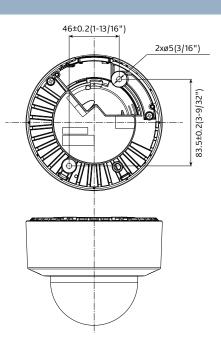
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor			
	Minimum Illumination	Color : 0.018 lx (30IRE, F1.3, 1/30s) *1			
		Color : 0.025 lx (50IRE, F1.3, 1/30s)			
		BW : 0.017 lx (50IRE, F1.3, 1/30s)			
		BW : 0 lx(50IRE, F1.3,1/30s with IR LED)			
	White Balance	ATW1 / ATW2 / AWC			
	Shutter Speed	[60 fps Mode] 1/60 Fix to 1/10000 Fix, [30fps/15fps mode] 1/30 Fix to 1/10000 Fix			
		[50 fps Mode] 1/50 Fix to 1/10000 Fix, [25fps/12.5fps mode] 1/25 Fix to 1/10000 Fix			
	Intelligent Auto	On / Off On / Off. On / Off.			
	Super Dynamic ^{*2}				
	Dynamic Range	Max.144 dB (Super Dynamic : On, Level 31)			
	· · ·	The level can be set in the range of 0 to 255.			
	Adaptive Black Stretch				
	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 (IR Light Off) / On (IR Light On) / Auto1 (IR Light Off) / Auto2 (IR Light On) / Auto3 (SCC)			
	IR LED Light	High / Middle / Low / Off,			
		Maximum irradiation distance : 50 m {Approx. 164 ft} (30IRE) *1			
		35 m {Approx. 116 ft} (50IRE)			
	Digital Noise Reduction	The level can be set in the range of 0 to 255.			
	Video Motion Detection (VMD)	On / Off, 4 areas available			
	Scene Change Detection (SCD)	On / Off, 1 areas available			
	Audio Detection	On / Off			
	Al Sound Classification Gunshot, Yell, Vehicle horn, Glass break Al Analytics Yes Defined Table				
	Privacy Zone	On / Off, Up to 8 zones available			
	VIQS On / Off, Up to 8 zones available				
	Image rotation ^{*3}	0°/90°/180°/270°			
	Camera Title (OSD) On / Off, Up to 40 characters (alphanumeric characters, marks)				
	Focus Adjustment	Auto focus / Manual			
Lens	Optical zoom	3.1 x (Motorized zoom / Motorized Focus)			
	Extra zoom	3.1x - 9.3x (when resolution is 640 x 360)			
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}			
	Angular Field of View	[16 : 9 mode] Horizontal : 36° (TELE) - 114° (WIDE), Vertical : 20° (TELE) - 60° (WIDE)			
		[4:3 mode] Horizontal : 27° (TELE) - 82° (WIDE), Vertical : 20° (TELE) - 60° (WIDE)			
	Maximum Aperture Ratio	1:1.3 (WIDE) - 1:2.5 (TELE)			
	Focus range	0.3 m {11-13/16 inches} - ∞			
DORI	Detect (25ppm / 8ppf)	Wide: 24.9 m / 81.8 ft, Tele: 118.2 m / 387.7 ft			
DOM	Observe (62.5ppm / 19ppf)	Wide: 10.0 m / 32.7 ft, Tele: 47.3 m / 155.1 ft			
	Recognize (125ppm / 38ppf)	Wide: 5.0 m / 16.4 ft, Tele: 23.6 m / 77.5 ft			
		Wide: 2.5 m / 8.2 ft, Tele: 11.8 m / 38.8 ft			
	Identify (250ppm / 76ppf)				
Adjusting		Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100°			
Browser	Camera Control	Brightness, AUX On / Off			
gui	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 *4	Microsoft Edge, Firefox, Google Chrome			
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector			
	Resolution	[16:9 mode (60 fps mode)] [*] ² , [16:9 mode (30 fps mode)],			
	H.265/ H.264/ JPEG (MJPEG)	[16:9 mode (50 fps mode)] ^{*2} , [16:9 mode (25 fps mode)]			
		1920x1080, 1280x720, 640x360, 320x180			
		[4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)]			
		1280x960, VGA, QVGA			
		[4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)]			
		2048x1536"5 , 1280x960, VGA, QVGA			
	H.265/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort			
	H.264 ^{*6} Transmission Type	Unicast port (AUTO) / Unicast port (MANUAL) / Multicast			
	JPEG Image Quality	10 steps			
	Smart Coding	GOP (Group of pictures control):			
		Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /			
		Advanced (Fixed GOP 60s w/1s key-frame) /			
		Frame rate control (Variable GOP 4s-16s with frame rate control)			
		*Advanced and Frame rate control are only available with H.265.			
		Smart VIQS: On(High)/On(Low)/Off, Smart P-picture control: On/Off			

Network	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps			
		G.711 : 64 kbps			
		AAC-LC*7 : 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,			
		DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP'8, MQTT'8, LLDP'8 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, SMTP, DHCP, DNS, DDNS, NTP, SNMPv1/v2/v3, UPnP, IGMP,			
		ICMP, ARP, IEEE 802.1X, DiffServ, SRTP, SFTP*8, MQTT*8, LLDP*8			
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)			
	SDXC/SDHC/SD	H.265 / H.264 recording :			
	Memory Card	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failu			
		JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SDXC/SDHC/SD Memory Card : microSDXC memory card: 64 G8, 128 G8, 256 G8, 512 G8 microSDHC memory card: 4 G8, 8 G8, 16 G8, 32 G8 microSDHE memory card: 2 G8			
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals			
	ONVIF [®] Profile	G/M/S/T			
Alarm	Alarm Source	3 terminals input, VMD 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	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack			
Output	(for adjustment)	An NTSC or PAL signal can be outputted from camera			
	Audio input	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 : 2.5 V ±0.5 V			
	For line input :	Input level : Approx. –10 dBV			
	Audio Output	ø3.5 mm stereo mini jack (monaural output)			
		Output impedance : Approx. 600 Ω (unbalanced)			
		Output level : -20 dBV			
	External I/O Terminals	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/ 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 ClassB, EN55035			
	Power Source and	DC power supply : DC12 V 720 mA, Approx. 8.6 W			
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 180 mA, Approx. 8.7 W (Class 0 device)			
	Ambient Operating	-10 °C to +50 °C (14 °F to 122 °F)			
	Temperature				
	Shock Resistance	IK10 (IEC 62262)			
	Ambient Operating Humidity	10 to 90 % (no condensation)			
	Dimensions	ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}			
		Dome radius 41.5 mm {1-5/8 inches}			
	Mass (approx.)	570 g {1.26 lbs.} Main body : PC resin, i-PRO white / Dome cover : Polycarbonate resin, Smoke			
	Finish				

*1 Converted value
*2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.
*3 When the 60 fps mode, 50 fps mode, 15 fps mode or 12.5 fps mode is used, the "90" and "270" settings are not available.
*4 For information on the operation verification of the supported web browsers, refer to our support website <Control No.: C0132-.
*5 Used by super resolution techniques.
*6 Transmission for 4 streams can be individually set.
*7 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
*8 It will be adapted to the products produced after December 2021.

Appearance





Unit : mm (inches)

http://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 Privacy Guard

To protect privacy and portrait rights, it is possible to automatically apply a mosaic the entire face and figure of a person photographed by the camera.

AI Face Detection

Detects faces with high precision even in low-light, backlit, and mask-wearing environments.

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.

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

Optional Accessories

AI Vehicle Detection

AI Non mask Detection

who are not wearing them.

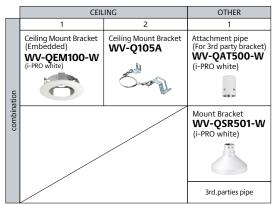
Extract vehicle characteristics and classify them into meaningful categories such as type and color.

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.

Deep-learning and proprietary image processing technologies recognize mask and detect people

N	Mount Bracket / Other										
	W	ALL	POLE	CORNER	HANGING						
combination	1	2	1	1	1	2					
	Wall Mount Bracket WV-QWL501-W (i-PRO white)	Wall Mount Bracket WV-QWL500-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 *1 (i-PRO white)					
	-	0									
	Mount Bracket WV-QSR501-W (i-PRO white)	Adapter Box WV-QJB500-W (i-PRO white)	Wall Mount Bracket WV-QWL500-W(i-PRO white) (+ WV-QJB500-W)	Wall Mount Bracket WV-QWL500-W(i-PRO white) (+ WV-QJB500-W)	Mount Bracket WV-QSR501-W (i-PRO white)						
	8	"If needed.	2+ 🖸		8	3rd.parties pipe					



Dome Cover



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.

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

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



i-PRO Co., Ltd. https://i-pro.com/ (2A-318AA)