

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.

The black color is easily fits into an installation space.

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	
	Super Dynamic ²	On / Off, The level can be set in the range of 0 to 31.	
	Dynamic Range	Max.144 dB (Super Dynamic : On, Level 31)	
	Adaptive Black Stretch	The level can be set in the range of 0 to 255.	
	Back light compensation / High light compensation	BLC (Back light compensation) / HLC (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	
	AI Sound Classification	Gunshot, Yell, Vehicle horn, Glass break	
	AI Analytics	Yes	
	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	3.1x (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	
	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	
	Identify (250ppm / 76ppf)	Wide: 2.5 m / 8.2 ft, Tele: 11.8 m / 38.8 ft	
System on Chip (SoC)		Ambarella CV25M	
Adjusting Angle		Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100°	
Browser GUI	Camera Control	Brightness, AUX On / Off	
	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)] , [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/ H.264 ⁶	Transmission Mode Constant bit rate / VBR / Frame rate / Best effort	
	JPEG	Transmission Type Unicast port (AUTO) / Unicast port (MANUAL) / Multicast	
	Smart Coding	Image Quality 10 steps	
	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, RTSP/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 Memory Card	H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure 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 Source	3 terminals input, VMD alarm, Command alarm, Audio detection alarm
Alarm	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification indication on browser, TCP alarm notification output
	Input/ Output	Monitor Output (for adjustment) VB5 : 1.0 V [p-p] / 75 Ω, composite, Pin jack An NTSC or PAL signal can be outputted from camera Audio input 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 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
EMC		FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassB, EN55035
Power Source and Power Consumption		DC power supply : DC12 V 720 mA, Approx. 8.6 W PoE (IEEE802.3af compliant) Device : DC48 V 180 mA, Approx. 8.7 W (Class 0 device)
Ambient Operating Temperature		-10 °C to +50 °C (14 °F to 122 °F)
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.)
	Finish	Main body : PC resin, Black / Dome cover : Polycarbonate resin, Smoke

*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.

When the 320x180 resolution 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>.

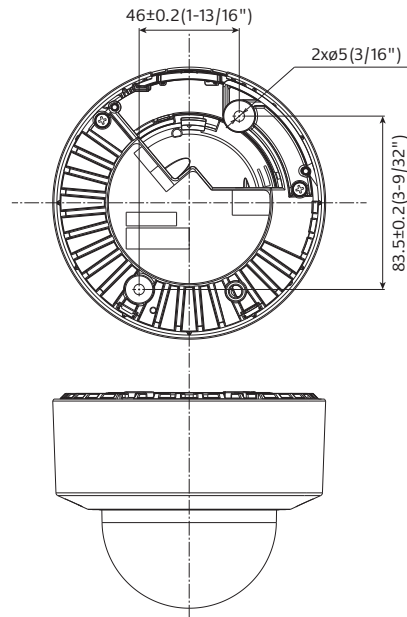
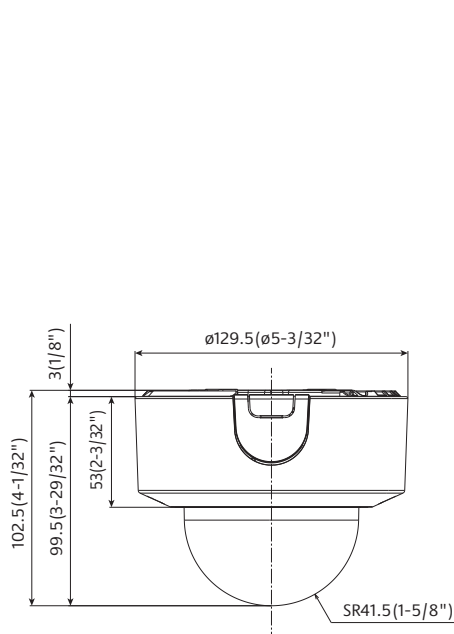
*5 Used by super resolution techniques.

*6 Transmission for 4 streams can be individually set.

*7 When recording audio on a microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

*8 It may be necessary to upgrade the firmware to use these protocols.

Appearance



Unit : mm (inches)

AI Analytics applications

<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.

AI Vehicle Detection

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

AI 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.






3rd party applications are also available.

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

Optional Accessories

Mount Bracket / Other

	WALL		POLE	CORNER
	1	2	1	1
combination	Wall Mount Bracket WV-QWL500-B (Black) 	Wall Mount Bracket WV-QWL501-B (Black) 	Pole Mount Bracket WV-QPL500-B (Black) 	Corner Mount Bracket PACA4W (i-PRO white) 
	Adapter Box WV-QJB500-W (i-PRO white)  *If needed.	Mount Bracket WV-QSR501-B (Black) 	Wall Mount Bracket WV-QWL500-B (Black) (+ WV-QJB500-W) 	Wall Mount Bracket WV-QWL500-B (Black) (+ WV-QJB500-W) 

	HANGING		CEILING	
	1	2	1	2
combination	Ceiling Mount Bracket WV-QCL501-W (i-PRO white) 	Ceiling Mount Bracket WV-QCL101-B *1 (Black) 	Ceiling Mount Bracket WV-Q105A 	Ceiling Mount Bracket (Embedded) WV-QEM100-B (Black) 
	Mount Bracket WV-QSR501-B (Black) 	This bracket requires 1 1/2" NPT pipe.		

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

Dome Cover

Dome Cover (Smoke type)
WV-CR1S



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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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 The Power of Truth

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<https://i-pro.com/>

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