



The new Standard by i-PRO video surveillance

2MP(1080p) IR Indoor 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
- 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

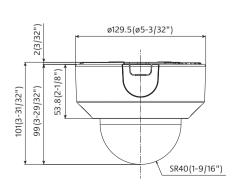
-	incations			
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor		
	Minimum Illumination	Color : 0.018 lx (30IRE, F1.3, 1/30s) *1		
		Color : 0.025 lx (50IRE, F1.3, 1/30s)		
		BW: 0.017 Ix (50IRE, F1.3, 1/30s)		
		BW : 0 Ix(50IRE, F1.3,1/30s with IR LED)		
	White Balance			
	Shutter Speed	[60 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 /	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			
	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		
	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) - 115° (WIDE), Vertical: 20° (TELE) - 61° (WIDE)		
	Maujaura Assatura Datia	[4:3 mode] Horizontal: 28° (TELE) – 82° (WIDE), Vertical: 20° (TELE) – 61° (WIDE)		
	Maximum Aperture Ratio	1:1.3 (WIDE) - 1:2.5 (TELE)		
DORI	Focus Range Detect (25ppm / 8ppf)	0.3 m {11-13/16 inches} - ∞ Wide: 24.5 m / 80.3 ft, Tele: 118.2 m / 387.7 ft		
DOKI	Observe (62.5ppm / 19ppf)			
	Recognize (125ppm / 38ppf)	Wide: 4.9 m / 16.1 ft, Tele: 23.6 m / 77.5 ft		
	Identify (250ppm / 76ppf)	Wide: 2.4 m / 8.0 ft, Tele: 11.8 m / 38.8 ft		
System of	n Chip (SoC)	Ambarella CV25M		
Adjusting		Horizontal : -240 to +120°, Vertical : -30 to +85°, Yaw : ±100°		
Browser		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		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		
		10 steps GOP (Group of pictures control):		
	JPEG Image Quality			
	JPEG Image Quality	GOP (Group of pictures control):		
	JPEG Image Quality	GOP (Group of pictures control): Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /		
	JPEG Image Quality	GOP (Group of pictures control): Off/ Low (Variable GOP 1s-8s)/ Mid (Variable GOP 4s-16s)/ Advanced (Fixed GOP 60s w/1s key-frame)/		

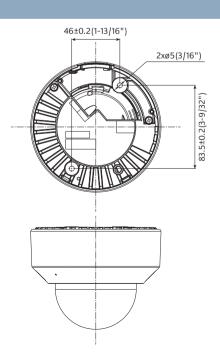
Network	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps			
		G.711 : 64 kbps			
		AAC-LC ^{*7} : 64 kbps / 96 kbps / 128 kbps			
	Audio transmission mode	Off / Mic (Line) input / Audio output / Interactive (Half duplex) /			
		Interactive (Full duplex)			
	Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v3,			
		DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP*8, MQTT*8, LLDP*			
		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 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	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 k Ω (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			
ocherai	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				
	Ambient Operating Humidity	10 to 90 % (no condensation)			
	Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)}			
	Dimensions	Dome radius 40 mm {1-9/16 inches}			
	Mass (approx.)				
	Mass (approx.) Finish	470 g {1.04 lbs.}			
	FILIST	Main body : ABS resin, Black / Dome cover : Acrylic resin, Smoke			

*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.

When the 320X80 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 an 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.

3rd party applications are also available. http://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.

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 Al engine enables that information to be used direct visitors in advance or help store staff work more efficiently.

Optional Accessories

lount Bracket / O	ther			
WA	ALL	POLE		CORNER
1	2	1		1
Wall Mount Bracket WV-QWL500-B (Black)	Wall Mount Bracket WV-QWL501-B (Black)	Pole Mount Bracket WV-QPL500-B (Black)	100 N	Corner Mount Bracket PACA4W (i-PRO white)
Adapter Box WV-QJB500-W (i-PRO white)	Mount Bracket WV-QSR501-B (Black)	Wall Mount Bracket WV-QWL500-B (+ WV-QJB500-W)	(Black)	Wall Mount Bracket WV-QWL500-B(Black) (+ WV-QJB500-W)
"If needed.				() +
HAN	GING	CEIL	ING	
1	2	1	2	
	1 Wall Mount Bracket WV-QWL500-B (Black) Adapter Box WV-QIB500-W (i-PRO white) If needed.	Wall Mount Bracket WJU Mount Bracket WV-QWL500-B WV-QWL501-B (Black) Image: Comparison of the second	WALL POLE 1 2 1 Wall Mount Bracket Wall Mount Bracket Pole Mount Bracket WV-QVL500-B (Black) Wall Mount Bracket Pole Mount Bracket WV-QVL500-B (Black) Word Wall Mount Bracket WV-QPL500-B (Black) Adapter Box Mount Bracket WV-QSR501-B (Black) Wall Mount Bracket WV-QJB500-Wv (i-PRO white) Mount Bracket WV-QJB500-W) Image: Write of the mount of the moun	WALL POLE 1 2 1 Wall Mount Bracket Wall Mount Bracket Pole Mount Bracket WV-QWL500-B (Black) Wall Mount Bracket WV-QPL500-B (Black) Image: Constraint of the state

		1	2	1	2
combination	bination	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)
	com	Mount Bracket WV-QSR501-B (Black)	This bracket requires 1 ½" 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



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.



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