



The new Standard by i-PRO video surveillance

2MP(1080p) 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)
- 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)
	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 /	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)
	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
	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
.ens	Optical zoom	3.1 x (Motorized zoom / Motorized Focus)
.ens	Extra zoom	3.1x - 9.3x (when resolution is 640 x 360)
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}
		[16 : 9 mode] Horizontal : 36° (TELE) – 115° (WIDE), Vertical : 20° (TELE) – 61° (WIDE)
	Angular Field of View	[4:3 mode] Horizontal : 28° (TELE) – 115 (WIDE), Vertical : 20° (TELE) – 61° (WIDE)
	Marries and An anti-	
	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: 24.5 m / 80.3 ft, Tele: 118.2 m / 387.7 ft
	Observe (62.5ppm / 19ppf)	Wide: 9.8 m / 32.1 ft, Tele: 47.3 m / 155.1 ft
	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
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
Vetwork	Network IF	10Base-T / 100Base-TX, RJ45 connector
VELWOIK		
verwork	Resolution	[16:9 mode (60 fps mode)] ^{*2} , [16:9 mode (30 fps mode)],
vetwork		[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)]
vetwork	Resolution	[16:9 mode (60 fps mode)] ⁷ 2, [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷ 2, [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180
VELWORK	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)]
VELWOIK	Resolution	[16:9 mode (60 fps mode)] ⁷ 2, [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷ 2, [16:9 mode (25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180
VELWORK	Resolution	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode [50 fps mode]] ⁷² , [16:9 mode [25 fps mode)] 1920x1080, 1280x720, 640x360, 320x180 [4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)]
ie (WOIK	Resolution	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷² , [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
iecwork	Resolution	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷² , [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)]
verwork.	Resolution H.265/ H.264/ JPEG (MJPEG)	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode [50 fps mode]] ⁷² , [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 ⁷⁵ , 1280x960, VGA, QVGA
vetwork	Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷² , [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)] 2048x1535 ⁴⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort
Vetwork	Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264*6 Transmission Type	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷² , [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)] 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast
vetwork	Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ^{*6} Transmission Type JPEG Image Quality	[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 (16:5 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536 ⁺⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps
	Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ^{*6} Transmission Type JPEG Image Quality	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷² , [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)] 1280x960, VGA, QVGA [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /
	Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ^{*6} Transmission Type JPEG Image Quality	[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, 1280x20, 420x180 [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 Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 15-85) / Mid (Variable GOP 4s-16s) / Advanced (Fixed GOP 60s w[1s key-frame)/
	Resolution H.265/ H.264/ JPEG (MJPEG) H.265/ Transmission Mode H.264 ^{*6} Transmission Type JPEG Image Quality	[16:9 mode (60 fps mode)] ⁷² , [16:9 mode (30 fps mode)], [16:9 mode (50 fps mode)] ⁷² , [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)] 1280x960, VGA, QVGA [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536 ¹⁵ , 1280x960, VGA, QVGA Constant bit rate / VBR / Frame rate / Best effort Unicast port (AUTO) / Unicast port (MANUAL) / Multicast 10 steps GOP (Group of pictures control): Off / Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /

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 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
nput/	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 410 mA, Approx. 4.9 W
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 110 mA, Approx. 5.3 W (Class 2 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)}
		Dome radius 40 mm {1-9/16 inches}
	Mass (approx.)	470 g {1.04 lbs.}
	Mass (approx.) Finish	470 g {1.04 lbs.} Main body : ABS resin, Black / Dome cover : Acrylic resin, Smoke

 Finish
 Main body - Nos ream, order, preserved

 *1 Converted value
 *2 When 60 by sor 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>.

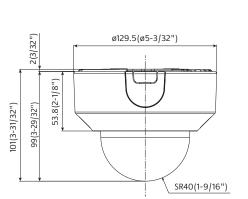
 *5 Used by super resolution techniques.

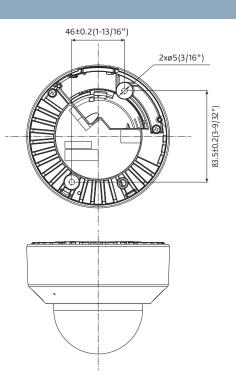
 *6 Transmission for 4 streams can be individually set.

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

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

Appearance





For Global

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

Optional Accessories

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

AI Non mask Detection

AI Vehicle Detection

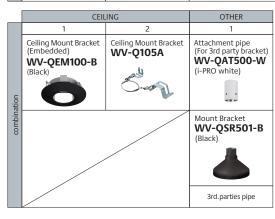
Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

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.

Mount Bracket / Other POLE CORNER HANGING Wall Mount Bracket Wall Mount Bracket WV-QWL500-B Pole Mount Bracket Corner Mount Bracket Ceiling Mount Bracket WV-OCL501-W Ceiling Mount Bracket WV-QCL100-B ¹ WV-OWL501-B WV-QPL500-B WV-OCN500-W (Black (Black) (Black) (i-PRO white) (i-PRO white) (Black) combination Wall Mount Bracket WV-QWL500-B(Black) Mount Bracket Adapter Box WV-QJB500-W Wall Mount Bracket Mount Bracket WV-QWL500-B(Black) WV-QSR501-B WV-QSR501-B (i-PRO white) (Black) (+ WV-OJB500-W) (+ WV-OJB500-W) (Black) 3rd.parties pipe -If needed

*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.



i-PRO Co., Ltd. https://i-pro.com/ (2A-324A-BB)