

WV-S2536LGN (Smoke Dome type)

The new Standard by i-PRO video surveillance

2MP(1080p) IR Outdoor 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)
- ClearSight Coating
- Built-in IR LED
- ONVIF[®] Profile G / M / S / T *ONVIF is a trademark of ONVIF, Inc.

Industry examples

- Safe Cities
- Transportation (Airport / Train, Subway station)
- Bank (ATM, Entrance)
- Retail / Logistics / Education / Hospital / Building

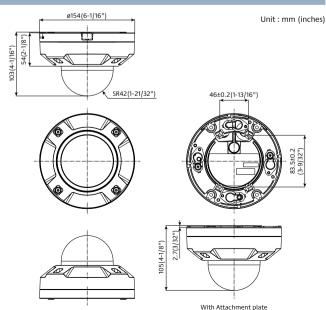




Specifications

	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 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,				
		[30 fps/15 fps mode] 1/30 Fix to 1/10000 Fix				
		[50 fps Mode] 1/50 Fix to 1/10000 Fix,				
		[25 fps/12.5 fps 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					
	IR LED LIGHT	High / Middle / Low / Off, Maximum irradiation distance : 50 m (Approx, 164 ft) (20185) *1				
		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				
	AI Sound Classification	Gunshot, Yell, Vehicle horn, Glass break				
	Al Analytics	Yes				
	Privacy Zone	On / Off, Up to 8 zones available On / Off, Up to 8 zones available				
	VIQS					
	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) – 113° (WIDE), Vertical : 20° (TELE) – 60° (WIDE)				
		[4 : 3 mode]				
		Horizontal : 26° (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: 25.4 m / 83.4 ft, Tele: 118.2 m / 387.7 ft				
	Observe (62.5ppm / 19ppf)					
	Recognize (125ppm / 38ppf)	Wide: 5.1 m / 16.7 ft, Tele: 23.6 m / 77.5 ft				
	Identify (250ppm / 76ppf)	Wide: 2.5 m / 8.3 ft, Tele: 11.8 m / 38.8 ft				
Adjusting		Horizontal : -194 to +166°, 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				
	Addio	Audio Output : On / Off Volume adjustment : Low / Middle / High				
GUI / Setup Menu Language						
	Browser ^{*4}	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese				
	Network IF	Microsoft Edge, Firefox, Google Chrome 10Base-T / 100Base-TX, RJ45 connector				
Network						
	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				
	H.265/ H.264/ JPEG (MJPEG)					
		[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				

Appearance



letwork	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			
	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, MOTT*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			
larm	Alarm Source	3 terminals input, VMD alarm, Command alarm, Audio detection alarm			
uann	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,			
	, addition (coloris)	HTTP alarm notification Indication on browser, TCP alarm notification output			
nput/	Monitor Output	VBS : 1.0 V $[p-p]$ / 75 Ω , composite, Pin jack			
Dutput	(for adjustment)	An NTSC or PAL signal can be outputted from camera			
	Audio input ^{*9}	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 ^{*9}	ø3.5 mm stereo mini jack (monaural output)			
		Output impedance : Approx. 600 Ω (unbalanced)			
		Output level : -20 dBV			
	External I/O Terminals ^{*9}	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 ^{*9} : DC12 V 730 mA, Approx. 8.8 W			
	Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 190 mA, Approx. 9.1 W (Class 0 device)			
	Ambient Operating	-40 °C to +60 °C (-40 °F to 140 °F)*10			
	Temperature	(Power On range : -30 °C to +60 °C {-22 °F to +140 °F})			
	Ambient Operating Humidity	10 to 100 % (no condensation)			
	Anti-Condensation System	Temish element + Heater + moisture absorption gel			
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compliant			
_	Shock Resistance	501 (IEC 60068-2-75 compliant), IK10 (IEC 62262)			
	Shock Resistance Dimensions	50J (IEC 60068-2-75 compliant), IK10 (IEC 62262) ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)}			
	Dimensions	ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)}			
	Dimensions Mass (approx.)	ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)} Approx. 1.1 kg {2.43 lbs.}			
	Dimensions	ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)} Approx. 1.1 kg {2.43 lbs.} Main body : Aluminum die cast and resin, i-PRO white			
	Dimensions Mass (approx.)	ø154 mm x 105 mm (H) {ø6-1/16 inches x 4-1/8 inches (H)} Approx. 1.1 kg {2.43 lbs.}			

*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 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.

*9 When using with these, WV-QCA501A cable is required.

*10 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.

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 CORNER POLE WALL 1 2 3 1 2 1 2 Wall Mount Bracket Sun Shade Pole Mount Bracket Corner Mount Bracket Wall Mount Bracket WV-QSR500-W (White) **PWM485W** WV-QWL500-W PAPM4W PACA4W (White) (White) (White) (White) .* combination Wall Mount Bracket WV-QWL500-W(White) Conduit Adapter Adapter Box Base Bracket Wall Mount Bracket Wall Mount Bracket Wall Mount Bracket WV-QJB501-W (White) WV-QJB500-W (White) PAPM6 WV-QWL500-W(White) **PWM485W PWM485W** (Black) (White) (+ WV-QJB500-W) (White) (+ WV-QJB500-W) 0 101 'lf ne 'If needed

		HANGING			PARAPET	CEILING		
combination		1	2	3	1	1	2	3
	bination	Ceiling Mount Bracket WV-QCL501-W (White)	Ceiling Mount Bracket WV-QCL101-W (White) *For indoor instalation only.	Ceiling Mount Bracket WV-QCL101-W *1 (White) *For indoor instalation only.	Parapet Mount Bracket PPRM35W (White)	Ceiling Mount Bracket (Embedded) WV-QEM500-W (White)	Base Bracket WV-QJB501-W (White)	Ceiling Mount Bracket WV-Q105A
	COM	Mount Bracket WV-QSR501-W (White)	Mount Bracket PS485W (White)	This bracket requires 1 ½" NPT pipe.	Mount Bracket PS485W (White)			

*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	Dome Cover	Dome Cover	
(Smoke type)	(Smoke type with ClearSight coating)	(Clear type with ClearSight coating)	
WV-CW7S	WV-CW7SN	WV-CW7CN	
\bigcirc		0	

Cable



*WV-QCA500APK and WV-QCA501APK are package of 10 cables. *The color of the grommet rubber may differ depending on the production time, but the performance and mounting method will not change.

Trademarks and registered trademarks

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- Android is a trademark of Google LLC.

- ONVIE is a trademark of ONVIE. Inc.

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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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