

# **WV-S2536LN**

# The new Standard by i-PRO video surveillance

# 2MP (1080p) Vandal Resistant Outdoor Dome Network Camera

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 Al 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 (0.007 to 0.009 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

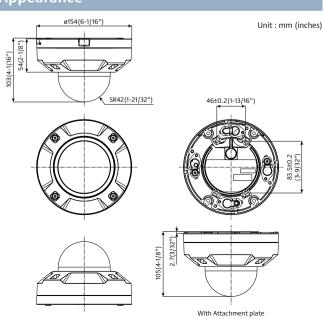




#### Specifications

Camera	Image Sensor Approx. 1/2.8 type CMOS image sensor					
Camera	Minimum Illumination					
	Willimum mummation	Color : 0.007 lx (30IRE, F1.3, 1/30s) *1				
		Color : 0.009 lx (50IRE, F1.3, 1/30s)				
		BW: 0.005 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 On / Off				
	Intelligent Auto					
	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) /				
	1 ( 4	Auto2 (IR Light On) / Auto3 (SCC)				
	IR LED Light	High / Middle / Low / Off,				
	IN LED LIGHT					
		Maximum irradiation distance : 70 m {Approx. 230 ft} (30IRE) *1				
		50 m {Approx. 164 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				
	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				
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)	Wide: 10.2 m / 33.4 ft, Tele: 47.3 m / 155.1 ft				
	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	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes				
	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	2048x1536 <sup>*5</sup> , 1280x960 , VGA , QVGA Constant bit rate / VBR / Frame rate / Best effort				
	H.265/ Transmission Mode H.264'6 Transmission Type	2048x1536*5 , 1280x960, VGA, QVGA				

# **Appearance**



Network	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				
	Addio compression	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	DIPO6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP, SNMPv1/v2/v2  DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP, MOTT, LLDI				
		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, MQTT, LLDP				
	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*8	ø3.5 mm stereo mini jack				
	For microphone input :	,				
		(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 : Approx10 dBV				
	Audio Output*8	ø3.5 mm stereo mini jack (monaural output)				
	, , , , ,	Output impedance : Approx. 600 \( \Omega\) (unbalanced) Output level : -20 dBV  ALARM IN 1 (Alarm input 1/ Black & white input / Auto time adjustment input) (x1)				
	External I/O Terminals 8					
		ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x				
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 8 : 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)*9				
	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	1 3				
	Anti-Condensation System Water and Dust Resistance	. 3				
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complian				
	Water and Dust Resistance Shock Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complian 50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)				
	Water and Dust Resistance Shock Resistance Dimensions	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complian   50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)   Ø154 mm x 105 mm (H)				
	Water and Dust Resistance Shock Resistance Dimensions Mass (approx.)	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X compilar 50J (IEC 60068-2-75 compilant), IK10 (IEC 62262) a 0154 mm x 105 mm (H) (ø6-1/16 inches x 4-1/8 inches (H)) Approx. 1.1 kg (2.43 lbs.)				
	Water and Dust Resistance Shock Resistance Dimensions	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complian   50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)   Ø154 mm x 105 mm (H)				

## Al Analytics applications

http://i-pro.com/global/en/surveillance/products/i-pro-ai-application

#### Al Video Motion Detection (Al-VMD)

Advanced video analysis technology detects objects (faces, people, cars, motorcycles) in a specified area. (Intruder Detection, Loitering Detection, Direction Detection, Cross Line Detection)

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.

#### Al 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.

#### Al Non mask Detection

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

#### Al 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.

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

<sup>\*1</sup> Converted value
\*2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

<sup>\*3</sup> 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>.

<sup>\*5</sup> Used by super resolution techniques

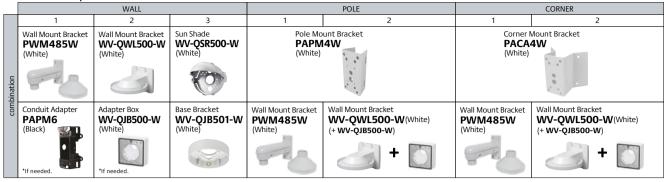
<sup>\*6</sup> Transmission for 4 streams can be individually set. \*7 When recording audio on an microSD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).

<sup>\*8</sup> When using with these, WV-QCA501A cable is required.

<sup>\*9</sup> When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.

### **Optional Accessories**

#### ■ Mount Bracket / Other



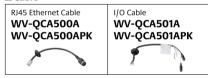
		HANGING		PARAPET	CEILING		
combination	1	2	3	1	1	2	3
	Ceiling Mount Bracket WV-QCL501-W (White)	Ceiling Mount Bracket WV-QCL101-W (White) *For indoor instalation only.	Ceiling Mount Bracket WV-QCL101-W *1 (White) *For indoor instalation only.	Parapet Mount Bracket <b>PPRM35W</b> (White)	Ceiling Mount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

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

#### ■ Dome Cover







- \*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.

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- 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.

