

WV-S1536LN

The new Standard by i-PRO video surveillance

2MP (1080p) Outdoor Bullet 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 Al 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

- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Logistics / Education / Hospital / Building







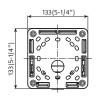
Specifications

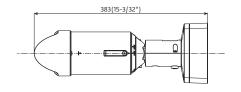
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor
Camera	Minimum Illumination	Color: 0.007 lx (30IRE, F1.3, 1/30s) *1
		Color: 0.009 lx (50IRE, F1.3, 1/30s)
		BW: 0.005 lx (50IRE, F1.3, 1/30s)
	14 d 1	BW: 0 lx (50IRE, F1.3,1/30s with IR LED)
	White Balance	ATW1 / ATW2 / AWC
	Shutter Speed	[60 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	High / Middle / Low / Off,
	I IK 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]
	Aligular Field of View	Horizontal : 37° (TELE) – 117° (WIDE), Vertical : 21° (TELE) – 62° (WIDE)
		[4:3 mode]
		Horizontal: 27° (TELE) – 82° (WIDE), Vertical: 21° (TELE) – 62° (WIDE)
	Maximum Aperture Ratio	1:1.3 (WIDE) - 1:2.5 (TELE)
	Focusing Range	0.3 m {11-13/16 inches} - ∞
DORI	Detect (25ppm / 8ppf)	Wide: 23.5 m / 77.2 ft, Tele: 114.8 m / 376.5 ft
	Observe (62.5ppm / 19ppf)	
	Recognize (125ppm / 38ppf)	
	Identify (250ppm / 76ppf)	Wide: 4.7 m 15.4 ft, Tele: 25.0 m 75.5 ft Wide: 2.4 m 7.7 ft, Tele: 11.5 m 37.7 ft
A		Horizontal : ±180 ° (PAN rotation part)
Adjusting Angle	Ceiling mounting	
		Vertical : 0 ° to 100 ° (TILT rotation part)
		Yaw : -190 ° to +100 ° (YAW rotation part)
	Wall mounting	Horizontal: ±100 ° (TILT rotation part)*
		Vertical : ±100 ° (TILT rotation part)*
		Yaw : -190 ° to +100 ° (YAW rotation part)
		* You can change between horizontal and vertical angels by adjusting the PAN rotation part
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
	CIII I Catara Ma	
	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)]
		2040 4520*5 4200 050 1/54 01/57
		2048x1536*5 , 1280x960, VGA, QVGA
	H.265/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.265/ Transmission Mode H.264*6 Transmission Type JPEG Image Quality	

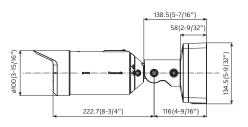
Network	Smart Coding	GOP (Group of pictures control):
	, , ,	Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /
		Advanced (Fixed GOP 60s w/1s key-frame) /
		Frame rate control (Variable GOP 4s-16s with frame rate control)
		*Advanced and Frame rate control are only available with H.265.
		Smart 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 duple
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, SMTP, DNS, NTP,
	зарропсаттогосог	SNMPv1/v2/v3, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ, SFTP*10, MOTT*10, LLDP*10
		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*10, MQTT*10, LLDP*10
	No. of Cimultaneous Usors	Up to 14 users (Depends on network conditions)
	No. of Simultaneous Users	
	SDXC/SDHC/SD Memory Card	H.265 H.264 recording : Manual REC Alarm REC (Pre/Post) Schedule REC Backup upon network failur
		JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
		Available 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, Panasonic alarm protocol outpu
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
output	Audio input*8	ø3.5 mm stereo mini jack
	For microphone input :	Recommended applicable microphone : Plug-in power type
	r or 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 : Approx. –10 dBV
	Audio Output*8	
	Audio Output o	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
	F	Output level : -20 dBV
	External I/O Terminals*8	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x
		ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1)
	- 4 -	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*8 : DC12 V 710 mA, Approx. 8.5 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	Temish element + Heater + moisture absorption gel
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50E), NEMA 4X complian
	Shock Resistance	IK10 (IEC 62262)
	Dimensions	ø133 mm (W) x 133 mm (H) x 383 mm (D)
		{ø5-1/4 inches (W) x 5-1/4 inches (H) x 15-3/32 inches (D)}
	Mass (approx.)	Approx. 2.4 kg {5.3 lbs.}
	,	
	Finish	Main body: Aluminum die cast and resin, i-PRO white
	Finish	Main body: Aluminum die cast and resin, i-PRO white Outer fixing screws: Stainless steel (Corrosion-resistant treatment)

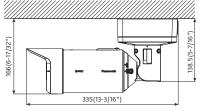
Appearance

Unit: mm (inches)

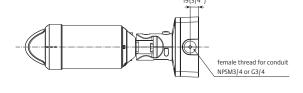








Mounted state after construction



^{*1} Converted value
*2 When 60 fps or 50 fps is selected, the Super Dynamic function is automatically set to off.

² 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 <<ontrol 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 When using with these, WV-QCA501A cable is required.

[&]quot;9 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.
*10 It may be necessary to upgrade the firmware to use these protocols.

AI Analytics applications

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

Al 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)

Al 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.

Al 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.

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

Al Vehicle Detection

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

Al Non mask Detection

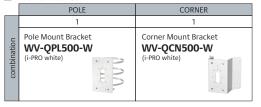
Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

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.

Optional Accessories

Mount Bracket



Cable



* WV-QCA500APK and WV-QCA501APK are package of 10 cables.

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- Android is a trademark of Google LLC.
- 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.
- Panasonic i-PRO Sensing Solutions 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.

Panasonic

Panasonic Corporation

Panasonic i-PRO Sensing Solutions Co., Ltd.

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