

WV-S1536LN-B

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.

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 (0.007 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





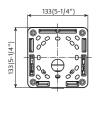
Specifications

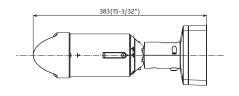
	ifications	
Camera	Image Sensor	Approx. 1/2.8 type CMOS image sensor
	Minimum Illumination	Color: 0.007 lx (30IRE, F1.3, 1/30s) *1
		Color: 0.009 lx (50IRE, F1.3, 1/30s)
		BW: 0.005 lx (50IRE, F1.3, 1/30s)
	White Balance	BW: 0 lx (50IRE, F1.3,1/30s with IR LED)
	Shutter Speed	ATW1 / ATW2 / AWC
	Snutter 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
		On / Off, The level can be set in the range of 0 to 31.
	Super Dynamic*2 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) /
	color/bvv (icit)	Auto2 (IR Light On) / Auto3 (SCC)
	IR LED Light	High / Middle / Low / Off,
	in teb eight	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: 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)	Wide: 9.4 m / 30.9 ft, Tele: 45.9 m / 150.6 ft
	Recognize (125ppm / 38ppf)	Wide: 4.7 m / 15.4 ft, Tele: 23.0 m / 75.3 ft
	Identify (250ppm / 76ppf)	Wide: 2.4 m / 7.7 ft, Tele: 11.5 m / 37.7 ft
Adjusting	Ceiling mounting	Horizontal: ±180 ° (PAN rotation part)
Angle		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
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	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 . 2 /20 f /1 [4 . 2 /25 f /1]
		[4:3 mode (30 fps mode)], [4:3 mode (25 fps mode)]
		1280x960, VGA, QVGA
		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 ^{*5} , 1280x960, VGA, QVGA
	H.265/ Transmission 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
	H.265/ Transmission Mode H.264*6 Transmission Type JPEG Image Quality	1280x960, VGA, QVGA [4:3 mode (15 fps mode)], [4:3 mode (12.5 fps mode)] 2048x1536 ^{*5} , 1280x960, VGA, QVGA

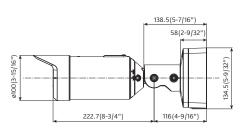
Network	Smart Coding	GOP (Group of pictures control):
	_	Off/ Low (Variable GOP 1s-8s) / Mid (Variable GOP 4s-16s) /
		Advanced (Fixed GOP 60s w/1s key-frame) /
		Frame rate control (Variable GOP 4s-16s with frame rate control)
		*Advanced and Frame rate control are only available with H.265.
		Smart VIQS: On(High)/On(Low)/Off, Smart P-picture control: On/Off
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps
		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,
	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 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 failur
	Memory Card	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
	Markila Tanada da Carandikilik	microSD memory card : 2 GB iPad, iPhone, Android™ terminals
	Mobile Terminal Compatibility	
	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 :	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*8	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
		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)
		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, Black
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)

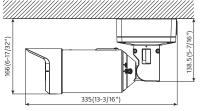
Appearance

Unit: mm (inches)

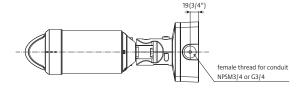








Mounted state after construction



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

When the 60 fps mode, 50 fps mode, 15 fps mode or 12.5 fps mode or 10.5 fps mode, 10.5 fps mode or 10.5 fps mode

^{*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 When using with these, WV-QCASDIA cable is required.
*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

Al 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)

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.

Al People Detection

Extract the characteristics of human face $\!\!\!/$ clothing and classify them into meaningful categories such as gender, age, and clothing color.

 $\label{lem:composition} \begin{tabular}{ll} 3 rd party applications are also available. \\ https://i-pro.com/global/en/surveillance/i-pro-application-platform/application-list application-list application-platform/application-list application-platform/application-list application-platform/application-list application-platform/application-list application-platform/application-platform$

Al Vehicle Detection

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

Al Non mask Detection

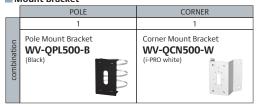
Deep-learning and proprietary image processing technologies recognize mask and detect people who are not wearing them.

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.
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- 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.

