Panasonic
BUSINESS

WV-S1550L

i-PRO EXTREME

5-megapixel iA H.265 Network Camera

Panasonic WV-S1550L captures the highest quality images in even very challenging and dynamic environments. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. Adopting H.265 Smart Coding technology, bandwidth efficiency is intelligently increased for longer recording and less storage. Cameras out-of-the-box, use an encryption module standardized by FIPS Publication 140-2 for secure video streaming.

Extreme image quality allows evidence to be captured even under challenging conditions

- Auto Shutter speed control for moving vehicles
- Sharp and clear images of a walking person day & night
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 120dB for backlit situations involving headlights and shadows on night streets
- Environmental durability : IP66, IK10

Extreme bandwidth compression with new Panasonic H.265 Smart Coding

- Longer recording and less storage compared to any H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) detects movement within the image and compresses the areas with little motion in order to reduce transmitted data while maintaining the quality of the image.
  *Region of Interest

Extreme Data Security

- Full encryption SD card edge recording to keep your data safe
- FIPS140-2 CAVP compliant *Using encryption module standardized by FIPS publication 140-2
- Full end-to-end system encryption with supported VMS and devices to protect from IP snooping/spoofing and detect data alteration

Key Features

- 5-megapixel images up to 30fps
- iA (intelligent Auto)
- Super Dynamic 120dB
- Color night vision (0.0044 to 0.07 lx)
- H.265 Smart Coding
- i-VMD License Bundled

Industry examples

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

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Specifications

Camera	Image Sensor	1/2.8 type CMOS image sensor
	Effective Pixels	Approx. 5.1 megapixels
	Minimum Illumination	Color : 0.07 lx, BW : 0.04 lx
		(F1.3, Maximum shutter : Off (1/30s), AGC : 11)
		BW : 0 lx
		(F1.3, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit)
		Color : 0.0044 lx, BW : 0.003 lx
		(F1.3, Maximum shutter : max. 16/30s, AGC : 11) [*1]
	White Balance	AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Shutter Speed	1/30 Fix to 1/10000 Fix
	Intelligent Auto	On / Off
	Super Dynamic	On / Off, the level can be set in the range of 0 to 31.
	Dynamic Range	Max 120 dB (Super Dynamic : On, Level : 30 or more, 15 fps) [*2]
	Adaptive Black Stretch	The level can be set in the range of 0 to 255.
	Back light compensation / High light compensation	BLC (Back light compensation) / HLC (High light compensation) / Off
		The level can be set in the range of 0 to 31.
		(only when Super dynamic / Intelligent Auto : Off)
	Fog compensation	On / Off , The level can be set in the range of 0 to 8
		(only when Intelligent auto / auto contrast adjust : Off)
	Maximum gain	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, Maximum irradiation distance : 40 m {Approx. 131 ft}
	Digital Noise Reduction	The level can be set in the range of 0 to 255.
	Video Motion Detection (VMD)	On / Off, 4 areas available
	Intelligent VMD (i-VMD)	Type 6 *Bundled License
	Privacy Zone	On / Off (up to 8 zones available)
	Image rotation [*3]	0 °(Off) / 90 ° / 180 ° / 270 ° , 90° and 270° are valid only in the 16: 9 mode.
	Camera Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
Lens	Zoom Ratio	3.1x Optical (Motorized zoom / Motorized focus)
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}
	Maximum Aperture Ratio	1 : 1.3 (WIDE) – 1 : 2.5 (TELE)
	Focus range	0.3 m {11-13/16 inches} – ∞
	Angular Field of View	[16 : 9 mode] Horizontal : 34° (TELE) – 106° (WIDE)
		Vertical : 19° (TELE) – 57° (WIDE)
		[4 : 3 mode] Horizontal : 34° (TELE) – 106° (WIDE)
		Vertical : 25° (TELE) – 77° (WIDE)
Adjusting Angle	Ceiling mounting	Horizontal : ±180 ° (Adjust by horizontal (PAN) angle)
		Vertical : 0 ° to 100 ° (Adjust by vertical (TILT) angle)
		Yaw : −190 ° to +100 ° (Adjust by azimuth (YAW) angle)
	Wall mounting	Horizontal : ±100 ° (Adjust by vertical (TILT) angle)*
		Vertical : 0 ° to 100 ° (Adjust by vertical (TILT) angle)*
		Yaw : −190 ° to +100 ° (Adjust by azimuth (YAW) angle)
		*You can change between horizontal and vertical angels by adjusting the horizontal (PAN) angle.
Browser GUI	Camera Control	Brightness, AUX On / Off
	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
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution	•16 : 9 mode
	H.265/ H.264	3072 x 1728[*4] / 2560 x 1440 / 1920 x 1080 / 1280 x 720 / 640 x 360 / 320 x 180
	JPEG (MJPEG)	•4 : 3 mode
		3072 x 2304[*4] / 2560 x 1920 / 1280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA
	H.265/ H.264[*5] — Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.265/ H.264[*5] — Transmission Type	Unicast / Multicast
	JPEG — Image Quality	10 steps

*1 Converted value
*2 The frame rate is limited to 15 fps for level 30 or higher. The dynamic range is 108 dB typ / 30 fps for level 29 or lower.
*3 Following the setting angle of the rotated image, the analog output of the MONITOR OUT terminal rotates.
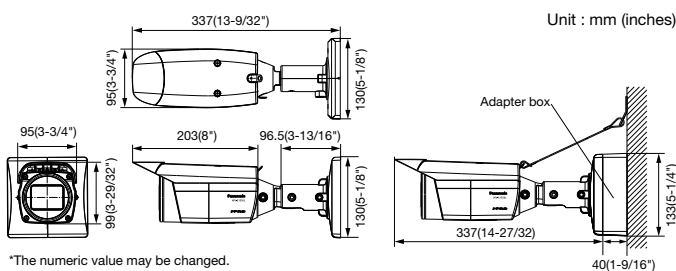*4 Used by super resolution techniques

Network	Smart Coding	GOP (Group of pictures) control :
		On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off
		*On (Frame rate control) and On (Advanced) are only available with H.265.
		Auto VIQS : On / Off
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps
		G.711 : 64 kbps
		AAC-LC[*6] : 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, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
		IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card	H.265/ H.264 recording :
		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 :
		Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB**, 128 GB**, 256 GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Mobile Terminal Compatibility	iPad, iPhone, Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD alarm, Command alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, FTP image transfer, Panasonic alarm protocol output
Input/ Output	Monitor Output (for adjustment)	VBS : 1.0 V [p-p] / 75 Ω, composite, Pin jack
		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 (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
	Power Source and Power Consumption	DC power supply : DC12 V 810 mA/ Approx. 9.8 W
		PoE (IEEE802.3af compliant) Device : DC48 V 210 mA, Approx. 10.1 W (Class 0 device)
	Ambient Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)[*7]
		(Power On range : −30 °C to +60 °C {−22 °F to +140 °F})
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant
	Shock Resistance	IK10 (IEC 62262)
	Dimensions *With adapter box	With adapter box : 133 mm (W) x 133 mm (H) x 377 mm (L) {5-1/4 inches(W) x 5-1/4 inches(H) x 14-27/32 inches(L)}
		Without adapter box : 130 mm (W) x 130 mm (H) x 337 mm (L) {5-1/8 inches(W) x 5-1/8 inches(H) x 13-9/32 inches(L)}
	Mass *With adapter box	With adapter box : 2.1 kg {4.63 lbs}
		Without adapter box : 1.6 kg {3.53 lbs}
	Finish	Main body : Aluminum die cast and resin, Metallic silver
		Outer fixing screws : Stainless steel (Corrosion-resistant treatment)
		Front panel : Polycarbonate resin, Clear

*5 Transmission for 4 streams can be individually set.
*6 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity).
*7 In the environment where IR-LED is always turned on, make sure that the temperature is between −40° C and +50 °C {−40 °F to +122 °F}.

Appearance

Unit : mm (inches)

337(13-9/32")
95(3-3/4")
130(5-1/8")

Adapter box

95(3-3/4")
99(3-29/32")
203(8")
96.5(3-13/16")
130(5-1/8")
337(14-27/32")
133(5-1/4")
40(1-9/16")

*The numeric value may be changed.

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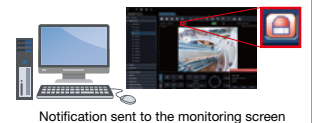– All other trademarks identified herein are the property of their respective owners.

Important
– Safety Precaution : Carefully read the Important Information, Installation Guide and operating instructions before using this product.
– Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

Bundled License

Plug-in Software for i-VMD

i-VMD is possible to detect objects in the specified area by advanced video analysis technology.

i-VMD : Intruder Detection, Loitering Detection, Direction Detection, Scene Change Detection, Object Detection, Cross Line Detection

Notification sent to the monitoring screen

Optional Accessories

▪ Mount Bracket / Other

Pole Mount Bracket **WV-Q188** (Fine silver)	Corner Mount Bracket **WV-Q189** (Fine silver)	Front Panel **WV-CW8CN**
Pole Mount Bracket WV-Q182 (Light gray)	Corner Mount Bracket WV-Q183 (Light gray)	(Clear type with ClearSight coating)

• The brackets are available in two colors, Fine silver and Light gray. It is possible to use them in the different color combination.

• Masses and dimensions are approximate.   • Specifications are subject to change without notice.

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