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. Out of the box, the camera supports full data encryption streaming and is compliant to FIPS 140-2 Level 1 standards to keep your video secured.

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 H.265 compression with new 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
- FIPS 140-2 Level 1 compliant
- 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 30 fps
- iA (intelligent Auto)
- Super Dynamic 120dB
- Color night vision (0.0044 to 0.07 lx)
- H.265 Smart Coding
- FIPS 140-2 Level 1 compliant

Applications
- 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 and 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	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
	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 : ±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 H.265/ H.264 JPEG (MJPEG)	•16 : 9 mode 3072 x 1728*4 / 2560 x 1440 / 1920 x 1080 / 1280 x 720 / 640 x 360 / 320 x 180 •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
	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

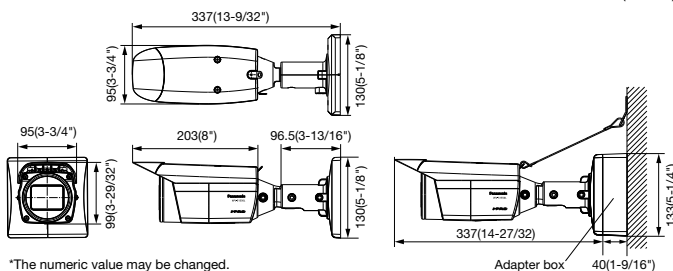| Network	Smart Coding	GOP (Group of pictures) control : On (Frame rate control)* / On (Advanced)* / On (Low) / On (Mid) / Off *On (Frame rate control) and On (Advanced) are only available with H.265. Auto VIQS : On / Off
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*6 : 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")
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")
Adapter box

*The numeric value may be changed.

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

Optional Accessories

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

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.

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