

WV-S1531LTN

EXTREME

iA (intelligent Auto) H.265 Network Camera with tele lens

Panasonic WV-S1531LTN captures the highest quality images automatically even in very challenging and fast-changing surveillance environments. Intelligent Auto (iA) allows the camera to automatically adjust the key settings in real-time depending on the scenery and movement, reducing distortion such as motion blur and moving objects. New industry-leading 144dB dynamic range delivers balanced scene exposure in dynamic and extreme-backlit lighting environments. In addition, color night vision provides outstanding low-light performance with accurate color rendition and saturation from i-Pro's 1/3" sensor, rivaling the performance of costlier 1/2" sensor cameras in the market. The adopted H.265 Smart Coding technology, intelligently reduces bandwidth efficiency of up to 95%* more than H.264 for longer recording and less storage. Cameras out-of-the-box, support 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 fast 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 144dB for backlit situations involving headlights and shadows on night streets
- Environmental durability : IP66, IK10 and Dehumidification device

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.
- New "Smart Facial Coding" adds more bandwidth reduction for ID camera applications mainly capturing faces *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

- Full HD 1080p 60fps
- iA (intelligent Auto)
- Extreme Super Dynamic 144dB
- Color night vision (0.001 to 0.015 lx)
- H.265 Smart Coding
- FIPS 140-2 Level 1 compliant
- ClearSight Coating

Industry examples

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





Specifications

-			
Camera	°		Approx. 1/3 type MOS image sensor
	Minimum Illumination		Color : 0.015 lx, BW : 0.008 lx
			(F1.7, Maximum shutter : Off (1/30s), AGC : 11)
			BW :0 lx
			(F1.7, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit)
			Color : 0.001 lx, BW : 0.0005 lx
			(F1.7, Maximum shutter : max. 16/30s, AGC : 11) *1
	White Ba	alance	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
			*1/30 Fix to 2/120 Fix is available during 30 fps mode only.
	Intelligent Auto Super Dynamic'2 Dynamic Range Adaptive Black Stretch Back light compensation / High light compensation Fog compensation Maximum gain (AGC) Color/BW (ICR)		*1/60 Fix is available during 60 fps mode only.
			On / Off
			On / Off, the level can be set in the range of 0 to 31.
			144 dB (Super Dynamic : On)
			The level can be set in the range of 0 to 255.
			BLC (Back light compensation) / HLC (High light compensation) / Off
			(only when Super dynamic and Intelligent Auto : Off)
			On / Off (only when Intelligent Auto and Auto contrast adjust : Off)
			The level can be set in the range of 0 to 11.
			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
	Intelligent VMD (i-VMD) *3		Type 4 *optional plug-in software WV-SAE200
	Stabilizer *3		On / Off (available only in the 30 fps mode)
	Privacy		On / Off (up to 8 zones available)
	Image ro		0°/90°/180°/270°
		Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
		djustment	Auto back focus / Manual
Lens	Focal ler	,	9.0 - 21 mm {11/32 inches - 13/16 inches}
	Zoom ratio		2.3 x (Motorized zoom / Motorized focus)
		Field of View	[16 : 9 mode] Horizontal : 14° (TELE) – 34° (WIDE)
	Maximum Aperture Ratio		Vertical : 8° (TELE) – 19° (WIDE)
			[4 : 3 mode] Horizontal : 12° (TELE) – 28° (WIDE)
			Vertical : 9° (TELE) – 21° (WIDE)
			1 : 1.7 (WIDE) – 1 : 3.0 (TELE)
	Focusing Range		2.0 m {78-13/16 inches} – ∞
Adjusting	Ceiling mounting		Horizontal : ±180 ° (PAN rotation part)
Angle	Wall mounting		Vertical : 0 ° to 100 ° (TILT rotation part)
J			Yaw : -190 ° to +100 ° (YAW rotation part)
			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			Brightness, AUX : Open / Close
GUI	Audio	Control	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
001	Audio		Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language		English, Italian, French, German, Spanish, Portuguese, Russian,
			Chinese, Japanese
Network	Network		10Base-T / 100Base-TX, RJ45 connector
Network			•2 mega pixel [16 : 9] (30/60 fps)
	Resolution		
	H.265/ H.264		1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180
	JPEG (MJPEG)		•3 mega pixel [4 : 3] (30 fps)
			2,048 x 1,536 ^{*5} / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
			Constant bit rate / VBR / Frame rate / Best effort
		Transmission Type	Unicast / Multicast
	JPEG	Image Quality	10 steps

Network	Smart Coding	Smart Facial Coding"3 : On (Smart Facial Coding") / On (Auto VIQS) / Off
		*Smart Facial Coding is only available with Stream(1).
		GOP (Group of pictures) : On (Advanced)* / On (Low) / On (Mid) / Off
		*On(Advanced) is only available with H.265.
	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, 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	H.265 / H.264 recording :
	Memory Card (Option)	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**, 256GB** 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 ^{*8} , Command alarm, Audio detection 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/	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	ø3.5 mm stereo mini jack
		Input impedance: Approx. 2 kΩ (unbalanced)
		(Applicable microphone : Plug-in power type)
		Supply voltage : 2.5 V ±0.5 V
	Audio Output	ø3.5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN1(Alarm input 1/ Black & white input/ Auto time adjustment input),
		ALARM IN2(Alarm input 2/ ALARM OUT), ALARM IN3(Alarm input 3/ AUX OUT) (x1 for each)
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	DC power supply : DC12 V 750 mA, Approx. 9.0 W
	Power Consumption	PoE (IEEE802.3af compliant) Device :
		DC48 V 195 mA, Approx. 9.4 W (Class 0 device)
	Ambient Operating	IR LED : On -40 °C to +50 °C (-40 °F to 122 °F), IR LED : Off -40 °C to +60 °C (-40 °F to 140 °F)
	Temperature	(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 measuring standard compatible.
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant
		Type 4X(UL50), NEMA 4X compliant
	Shock Resistance	Type 4X(UL50), NEMA 4X compliant IK10 (IEC 62262)
	Shock Resistance Dimensions	Type 4X(UL50), NEMA 4X compliant IK10 (IEC 62262) 130 mm (W) x 130 mm (H) x 337 mm (L)
	Shock Resistance Dimensions * Installing using the base bracket	Type 4X(UL50), NEMA 4X compliant IK10 (IEC 62262) 130 mm (W) x 130 mm (H) x 337 mm (L) {5-178 inches (W) x 5-178 inches (H) x 13-9/32 inches (L)}
	Shock Resistance Dimensions * Installing using the base bracket Mass (approx.)	Type 4X(UL50), NEMA 4X compliant IK10 (IEC 62262) 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)} Approx. 1.7 kg (3.75 lbs) When using the adapter box : Approx. 2.2 kg (4.85 lbs)
	Shock Resistance Dimensions * Installing using the base bracket	Type 4X(UL50), NEMA 4X compliant IK10 (IEC 62262) 130 mm (W) x 130 mm (H) x 337 mm (L) {5-178 inches (W) x 5-178 inches (H) x 13-9/32 inches (L)}

*1 Converted value

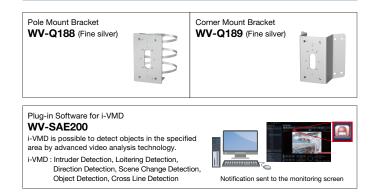
*2 Super Dynamic function is automatically set off on 60 fps mode.

*3 Stabilizer, Smart Facial Coding, i-VMD can not be used at the same time. *4 When *3 mega pixel [4 : 3](30fps mode)" is selected for "Image capture mode", *90 *" and *270 *" cannot be selected. *5 Used by super resolution techniques

*6 Transmission for 4 streams can be individually set.

*7 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity). *8 Including alarms from Plug-in Software

Optional Accessories



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.

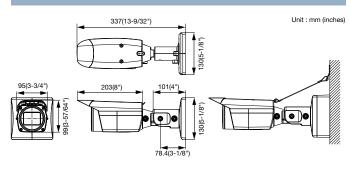


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(2A-189DA)

Appearance



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

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