# Panasonic BUSINESS

## **WV-S1531LNS**



# iA (intelligent Auto) H.265 Network Camera with Heavy salt damage resistance

Panasonic WV-S1531LNS 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. Anti-salt air corrosion protection ideal for seaside operations. "Value in Advanced mode with Smart Facial Coding. It depends on the scene.

### 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

### **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 (0.0008 to 0.012 lx)
- H.265 Smart Coding
- FIPS 140-2 Level 1 compliant
- ClearSight Coating
- Salt-air corrosion resistant

#### **Industry examples**

- Public safety (City / Highway tolls / Parking gates)
- Transportation (Ports / Airports / Train / Subway)
- Retail / Banks / Logistics / Education / Hospitals / Building

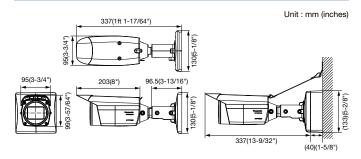




#### Specifications

Camera	Imaga Canaar	Approx 1/2 type MOC image conser
Camera	Image Sensor	Approx. 1/3 type MOS image sensor
	Minimum Illumination	Color : 0.012 lx, BW : 0.006 lx
		(F1.6, Maximum shutter : Off (1/30s), AGC : 11)
		BW : 0 lx
		(F1.6, Maximum shutter: Off (1/30 s), AGC: 11, when the IR LED is lit
		Color: 0.0008 lx, BW: 0.0004 lx
		(F1.6, 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
	•	*1/30 Fix to 2/120 Fix is available during 30 fps mode only.
		*1/60 Fix is available during 60 fps mode only.
	Intelligent Auto	On / Off
	Super Dynamic*2	On / Off, the level can be set in the range of 0 to 31.
	Dynamic Range	144 dB (Super Dynamic : On)
	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) / Off
	High light compensation	(only when Super dynamic and 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	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)
		On / Off (up to 8 zones available)
	Privacy Zone	
	Image rotation*4	0°/90°/180°/270°
	Camera Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
	Focus Adjustment	Auto back focus / Manual
Lens	Focal length	2.8 - 10 mm {1/8 inches - 13/32 inches}
	Zoom ratio	3.6 x (Motorized zoom / Motorized focus)
	Angular Field of View	[16 : 9 mode] Horizontal : 31° (TELE) – 112° (WIDE)
		Vertical: 17° (TELE) – 60° (WIDE)
		[4:3 mode] Horizontal: 26° (TELE) – 91° (WIDE)
		Vertical: 19° (TELE) – 67° (WIDE)
	Maximum Aperture Ratio	1: 1.6 (WIDE) - 1: 3.4 (TELE)
	Focusing Range	0.3 m {11-13/16 inches} - ∞
Adjusting		Horizontal : ±180 ° (PAN rotation part)
Angle	ociming mounting	Vertical : 0 ° to 100 ° (TILT rotation part)
		Yaw : -190 ° to +100 ° (YAW rotation part)
	NAT 11	
	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 /	English, Italian, French, German, Spanish, Portuguese, Russian,
	Setup Menu Language	Chinese, Japanese
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
Network	Resolution	•2 mega pixel [16 : 9] (30/60 fps)
	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* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
		*Used by super resolution techniques
	H.265/ Transmission Mode	
	H.264*5 Transmission Type	Unicast / Multicast
	That is this sion Type	

#### **Appearance**



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

#### 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, : 64 kbps, AAC-LC'6 : 64 kbps / 96 kbps / 128 kbps Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Audio transmission mode Interactive (Full duplex) IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, Supported Protocol SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802,1X, DiffServ 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 Up to 14 users (Depends on network conditions) H.265 / H.264 recording : No. of Simultaneous Users SDXC/SDHC/SD 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\*\*, 256 GB\*\* model \*SDHC card, \*\* SDXC card (except miniSD card and microSD card) iPad, iPhone, Android™ mobile terminals Mobile Terminal Compatibility 3 terminals input, VMD alarm<sup>7</sup>, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, Alarm Alarm Source Alarm Actions HTTP alarm notification Indication on browser, FTP image transfer, Panasonic alarm protocol output VBS: 1.0 V [p-p] / 75 Ω, composite, Pin jack Monitor Output Input/ 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 $\Omega$ (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 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC12 V 750 mA, Approx. 9.0 W EMC Power Source and PoE (IEEE802.3af compliant) Device DC48 V 195 mA, Approx. 9.4 W (Class 0 device) -40 °C to +60 °C (-40 °F to 140 °F) Ambient Operating (Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) Temperature Ambient Operating Humidity Water and Dust Resistance IP66 (IEC60529), Type 4X(UL50), NEMA 4X compliant Shock Resistance IK10 (IEC 62262) Salt damage resistance ISO14993 compliant Dimension 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)} Installing using the base bracket Mass (approx.) Approx. 1.6 kg (3.53 lbs) When using the adapter box: Approx. 2.1 kg (4.63 lbs) Main body: Almium die cast with salt resistance painting and resin Metallic silver Outer fixing screw : SUS (Corrosion-resistant treatment) Front cover: Polycarbonate resin (with ClearSight coating), Clear \*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.

Smart Facial Coding\*3: On (Smart Facial Coding\*) / On (Auto VIQS) / Off

\*Smart Facial Coding is only available with Stream(1).

- \*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 Including alarms from Plug-in Software

Network Smart Coding

## **Optional Accessory**

Object Detection, Cross Line Detection

#### Plug-in Software for i-VMD

#### WV-SAE200

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,



Notification sent to the monitoring screen

- 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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