Panasonic **BUSINESS**

WV-S2531LN



iA (intelligent Auto) H.265 Network Camera

Panasonic WV-S2531LN 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, use an encryption module standardized by FIPS Publication 140-2 for secure video streaming.

*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
- Environmental durability: IP66, IK10, 50J compliant and Dehumidification device

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.
- 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
- 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

- Full HD 1080p 60fps
- iA (intelligent Auto)
- Extreme Super Dynamic 144dB
- Color night vision (0.0008 to 0.012 lx)
- H.265 Smart Coding
- ClearSight Coating
- i-VMD License Bundled
- Fiber Optic Media Converter Unit (Optional WV-S25F1)

Industry examples

- Safe City
- Transportation (Airport / Train, Subway station)
- Bank (ATM, Entrance)
- Retail / Logistics / Education / Hospital / Building





with Base Bracket







Coocifications

Camera	Image S	Sensor	Approx. 1/3 type MOS image sensor		
	_	m Illumination	Color: 0.012 lx. BW: 0.006 lx		
			(F1.6, Maximum shutter : Off (1/30s), AGC : 11) BW : 0 lx		
	White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)		
	Shutter		1/30 Fix to 1/10000 Fix		
	Shutter Speed		*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 / 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 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)				
	Intelligent VMD (i-VMD)*3		Type 4 *Bundled License		
	Stabilizer*3		On / Off (available only in the 30 fps mode)		
	Privacy Zone		On / Off (up to 8 zones available)		
	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 / Auto Focus)		
	Angular Field of View		[16:9 mode] Horizontal: 30° (TELE) – 108° (WIDE)		
			Vertical: 17° (TELE) - 58° (WIDE)		
			[4:3 mode] Horizontal: 25° (TELE) – 90° (WIDE)		
			Vertical: 19° (TELE) – 65° (WIDE)		
	Maximum Aperture Ratio		1 : 1.6 (WIDE) – 1 : 3.35 (TELE)		
	Focusing Range		0.3 m {11-13/16 inches} - ∞		
Adjusting Angle			Horizontal: ±180°, Vertical: -30 to +85°, Yaw: ±100°		
Browser	Camera Control		Brightness, AUX On / Off		
GUI	Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High		
	/ ladio		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)		
	o. La (IVIOI La)		2,048 x 1,536°5 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240		
	H.265/ Transmission Mode		Constant bit rate / VBR / Frame rate / Best effort		
		Transmission Type	Unicast / Multicast		
		rransmission rype			
		Imaga Quality			
	JPEG	,	10 steps		
		,	Smart Facial Coding *3 : On (Smart Facial Coding*) / On (Auto VIQS) / Off		
	JPEG	,	Smart Facial Coding 3: On (Smart Facial Coding) / On (Auto VIQS) / Off Smart Facial Coding is only available with Stream(1).		
	JPEG	,	Smart Facial Coding*3 : On (Smart Facial Coding*) / On (Auto VIQS) / Off		

^{*1} Converted value

Audio Compression AAC-LC*7: 64 kbps / 96 kbps / 128 kbps Audio transmission mode Supported Protocol Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, 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 No. of Simultaneous Users SDXC/SDHC/SD Up to 14 users (Depends on network conditions) H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Memory Card (Option) 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**mode *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 SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, FTP image transfer. Panasonic alarm protocol output VBS: 1.0 V [p-p] / 75 Ω, composite, ø3.5 mm mini jack Input/ Monitor Output An NTSC or PAL signal can be outputted from camera (for adjustment) 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 IN 1 (Black & white input, Auto time adjustment input) (x1). ALARM IN 2 (ALARM OUT) (x1), ALARM IN 3 (AUX OUT) (x1) UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 Safety FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply: DC12 V 750 mA, Approx. 9 W Power Source and PoE (IEEE802.3af compliant) Device : Ambient Operating Temperature (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) Ambient Operating Humidity Water and Dust Resistance 10 to 100 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J IEC60068-2-75, IK10 (IEC 62262) Shock Resistance o164 mm x 139 mm (H) {o6-15/32 inches x 5-15/32 inches (H)} Dome radius 42 mm {1-21/32 inches} Installing using the base bracket When using base bracket : Approx. 1.6 kg {3.53 lbs} When using attachment plate: Approx. 1.2 kg {2.65 lbs} Main body : Aluminum die cast, Light gray Dome section : Clear polycarbonate resin (ClearSight coating)

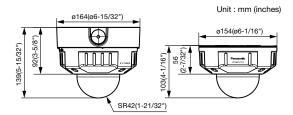
Bundled License

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

Appearance



Trademarks and registered trademarks

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- ONVIF and the ONVIF logo are trademarks or registered trademarks of Onvif Inc.
- All other trademarks identified herein are the property of their respective owners.

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

Optional Accessories

Fiber Optic Media Converter Unit

Extension Unit WV-S25F1 Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber. Basic specifications Support specifications for SFP module | 24 V AC(50 Hz/60 Hz) | Arbitent Operating Temperature | 40 V b A(50 Hz/60 Hz) | Arbitent Operating Temperature | 40 Vb +80 (-40 Vb +80 Vb) | Power On range -30 Ib +80 (-42 Vb to 140 Vb) | Ambient Operating Humidity | 10 % to 100 % (no condensation) | Waterproof | P66(IEC605259) | P66(IEC60525 SFP Port Type Ethernet Speed LC type 100/1000 Mbps t 3.3 V typical, Max. 300 mA Standard mini-SFP cage Shock resistance IK10(IEC62262) (For 6.5 mm pitch SFP)

Mount Bracket / Dome Cover / Other

Ceiling Mount Bracket (Embedded) WV-Q169A	Dome Cover (Smoke type) WV-CW7S	Dome Cover (Smoke type with ClearSight coating) WV-CW7SN	Wall Mount Bracket WV-Q185 (Light gray) Different Color Model WV-Q122A (Fine silver) (This bracket requires W-Q186 or W-Q124)	Mount Bracket WV-Q186 (Light gray) Different Color Model WV-Q124 (Fine silver) (This bracket requires WV-Q185 or WV-Q122A or WV-Q121B.)
Sun Shade WV-Q7118	Ceiling Mount Bracket WV-Q105A *For Indoor installation only	Ceiling Mount Bracket WV-Q121B (This bracket requires WV-Q186 or WV-Q124.)	Pole Mount Bracket WV-Q182 (Light gray) Different Color Model WV-Q188 (Fine silver) (This bracket requires WV-Q185 or WV-Q122A)	Corner Mount Bracket WV-Q183 (Light gray) Different Color Model WV-Q189 (Fine silver) (This bracket requires WV-Q185 or WV-Q122A)

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

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^{*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 $^{\circ}$ " and "270 $^{\circ}$ " 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