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, 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, 50J compliant 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 (0.0008 to 0.012 lx)
- H.265 Smart Coding
- FIPS 140-2 Level 1 compliant
- ClearSight Coating

Applications

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







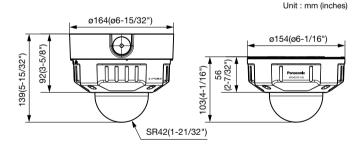


Specifications

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 lift
		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)
		The level can be set in the range of 0 to 11.
	Maximum gain (AGC) 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)
	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
		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
	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*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
	H.264*6 Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps
	Smart Coding	Smart Facial Coding *3 : On (Smart Facial Coding*) / On (Auto VIQS) / Off
	g	*Smart Facial Coding is only available with Stream(1).
		GOP (Group of pictures) : On (Advanced)* / On (Low) / On (Mid) / Off

^{*1} Converted value

Appearance



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- 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.

Network | Audio Compression G 726 (ADPCM) : 16 kbps / 32 kbps : 64 kbps 64 kbps / 96 kbps / 128 kbps Audio transmission mode Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, Supported Protoco 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 Up to 14 users (Depends on network conditions) H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / SDXC/SDHC/SD 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 GR 4 GR* 8 GR* 16 GR* 32 GR* 64 GR** 128 GR** 256 GR**mode SDHC card, ** SDXC card (except miniSD card and microSD card) Mobile Terminal Compatibility iPad, iPhone, Android™ mobile terminals 3 terminals input, VMD alarm*8, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, Alarm Alarm Source 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 Monitor Output Input/ (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 ø3.5 mm stereo mini jack (monaural output) Audio 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 General Safety FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 Power Source and DC power supply: DC12 V 750 mA, Approx. 9 W PoF (IFFF802.3af compliant) Device : Power Consumption DC48 V 195 mA, Approx. 9.4 W (Class 0 device) 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) Ambient Operating Temperature (Power On range : -30 °C to +60 °C (-22 °F to 140 °F)) 10 to 100 % (no condensation) Ambient Operating Humidity Water and Dust Resistance IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Shock Resistance Compliant with 50J IEC60068-2-75, IK10 (IEC 62262) Dimensions ø164 mm x 139 mm (H) {ø6-15/32 inches x 5-15/32 inches (H)} * Installing using the base bracket Dome radius 42 mm {1-21/32 inches} Mass (approx.) When using base bracket : Approx. 1.6 kg (3.53 lbs) When using attachment plate : Approx. 1.2 kg {2.65 lbs} Finish Main body: Aluminum die cast, light gray Dome section: Clear polycarbonate resin (ClearSight coating)

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

Optional Accessories



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, Object Detection, Cross Line Detection



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^{*2} Super Dynamic function is automatically set off on 60 fps mode