

WV-S2531LTN

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EXTREME

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

Panasonic WV-S2531LTN 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.

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 (0.001 to 0.015 lx)
- H.265 Smart Coding
- 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



Specifications

Camera	Image S	Sensor	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 B	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.
			*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 and 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
	Stabilize		On / Off (available only in the 30 fps mode)
	Privacy		On / Off (up to 8 zones available)
		otation*4	0 ° / 90 ° / 180 ° / 270 °
		Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
		djustment	Auto back focus / Manual
Lens	Focal length		9.0 - 21 mm {11/32 inches - 13/16 inches}
	Zoom ratio Angular Field of View		2.3 x (Motorized zoom / Auto Focus)
Angular F		Field of View	[16:9 mode] Horizontal: 14° (TELE) – 34° (WIDE)
			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)
	Maximum Aperture Ratio		1: 1.7 (WIDE) = 1: 3.0 (TELE) 2.0 m {78-13/16 inches} - ∞
Focusing Range Adjusting Angle		y haliye	Horizontal : ±180°, Vertical : -30 to +85°, Yaw : ±100°
	G Angle Camera Control		Brightness, AUX : Open / Close
GUI	Audio	Control	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	/ ddio		Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI/		English, Italian, French, German, Spanish, Portuguese, Russian,
		lenu Language	Chinese, Japanese
Network			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
	IDEO	Image Quality	10 steps
	JPEG		
	Smart C	oding	Smart Facial Coding*3 : On (Smart Facial Coding*) / On (Auto VIQS) / Off
		Coding	Smart Facial Coding '3 : On (Smart Facial Coding*) / On (Auto VIQS) / Off *Smart Facial Coding is only available with Stream(1).
		Coding	

*1	Converted	l va	lue
*1	Converted	l va	lue

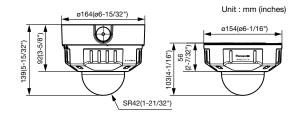
*2 Super Dynamic function is automatically set off on 60 fps mode.

*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.

Appearance



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

DISTRIBUTED BY :

Network	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 /
	Menory 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**, 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
nput/	Monitor Output	VBS : 1.0 V [p-p] / 75 Ω, composite, ø3.5 mm mini 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 IN 1 (Black & white input, Auto time adjustment input) (x1),
		ALARM IN 2 (ALARM OUT) (x1), ALARM IN 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	DC power supply : DC12 V 750 mA, Approx. 9 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, Type 4X(UL50),
	Water and Bust nesistance	NEMA 4X compliant
	Shock Resistance	Compliant with 50J IEC60068-2-75, IK10 (IEC 62262)
	Dimensions	o164 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)

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

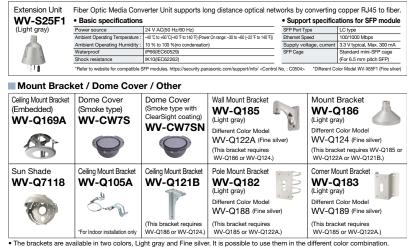
Bundled License

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

Optional Accessories

Fiber Optic Media Converter Unit



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https://security.panasonic.com

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