

5-megapixel iA H.265 Network Camera

Panasonic WV-S2550L captures the highest quality images in even very challenging and dynamic environments. Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. Adopting H.265 Smart Coding technology, bandwidth efficiency is intelligently increased 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 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 120dB for backlit situations involving headlights and shadows on night streets
- Environmental durability : IP66, IK10, 50J compliant

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.

*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

- 5-megapixel images up to 30fps
- iA (intelligent Auto)
- Super Dynamic 120dB
- Color night vision (0.0044 to 0.07 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 Sensor	1/2.8 type CMOS image sensor
	Effective Pixels	Approx. 5.1 megapixels
	Minimum Illumination	Color : 0.07 lx, BW : 0.04 lx (F1.3, Maximum shutter : Off (1/30s), AGC : 11) BW : 0 lx (F1.3, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit) Color : 0.0044 lx, BW : 0.003 lx (F1.3, 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
	Intelligent Auto	On / Off
	Super Dynamic	On / Off, the level can be set in the range of 0 to 31.
	Dynamic Range	Max 120 dB (Super Dynamic: On, Level: 30 or more, 15 fps) *2
	Adaptive Black Stretch	The level can be set in the range of 0 to 255.
	Back light compensation / High light compensation	BLC (Back light compensation) / HLC (High light compensation) / Off The level can be set in the range of 0 to 31. (only when Super dynamic / Intelligent Auto : Off)
	Fog compensation	On / Off, The level can be set in the range of 0 to 8 (only when intelligent auto / auto contrast adjust : Off)
	Maximum gain	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)	On / Off, 4 areas available
	Intelligent VMD (i-VMD)	Type 6 *Bundled License
	Privacy Zone	On / Off (up to 8 zones available)
Image rotation*3	0 °(Off) / 90 ° / 180 ° / 270 °, 90° and 270° are valid only in the 16: 9 mode.	
Camera Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)	
Lens	Zoom Ratio	3.1x Optical (Motorized zoom / Motorized focus)
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	2.9 - 9 mm {1/8 inches - 11/32 inches}
	Maximum Aperture Ratio	1 : 1.3 (WIDE) - 1 : 2.5 (TELE)
	Focus range	0.3 m {11-13/16 inches} - ∞
	Angular Field of View	[16 : 9 mode] Horizontal : 33° (TELE) - 103° (WIDE) Vertical : 19° (TELE) - 55° (WIDE) [4 : 3 mode] Horizontal : 33° (TELE) - 103° (WIDE) Vertical : 25° (TELE) - 75° (WIDE)
Adjusting Angle	Horizontal (PAN) angle : ±180°, Vertical (TILT) angle : -30 to +85°, Azimuth (YAW) angle : ±100°	
	Brightness, AUX On / Off	
Browser GUI	Camera Control	Brightness, AUX On / Off
	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High Audio Output : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution	•16 : 9 mode 3072 x 1728 ⁴ / 2560 x 1440 / 1920 x 1080 / 1280 x 720 / 640 x 360 / 320 x 180 •4 : 3 mode 3072 x 2304 ⁴ / 2560 x 1920 / 1280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA
	H.265 / H.264 JPEG (MJPEG)	Constant bit rate / VBR / Frame rate / Best effort
	H.265 / H.264 ⁵ JPEG	10 steps
	Image Quality	10 steps
	Smart Coding	GOP (Group of pictures) control : On (Frame rate control) / On (Advanced) / On (Mid) / On (Low) / Off *On (Frame rate control) and On (Advanced) are only available with H.265. Auto VIQS : On / Off

*1 Converted value

*2 The frame rate is limited to 15 fps for level 30 or higher. The dynamic range is 108 dB tv / 30 fps for level 29 or lower.

*3 Following the setting angle of the rotated image, the analog output of the MONITOR OUT terminal rotates.

*4 Used by super resolution techniques

*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 In the environment where IR-LED is always turned on, make sure that the temperature is between -40° C and +50 °C (-40 °F to +122 °F).

Network	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*6 : 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)
Alarm	Alarm Source	H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure JPEG recording : Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
	Alarm Actions	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)
Input/ Output	Monitor Output (for adjustment)	Up to 14 users (Depends on network conditions)
	Audio input	For microphone input : Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : -48 dB±3 dB (0 dB-1 V/Pa, 1 kHz)) Input impedance : Approx. 2 kΩ (unbalanced) Supply voltage : 2.5 V ±0.5 V For line input : Input level: Approx. -10 dBV
	Audio Output	Recommended applicable microphone : Plug-in power type (Sensitivity of microphone : -48 dB±3 dB (0 dB-1 V/Pa, 1 kHz)) Input impedance : Approx. 2 kΩ (unbalanced) Supply voltage : 2.5 V ±0.5 V For line input : Input level: Approx. -10 dBV
	External I/O Terminals	Output level : -20 dBV Output impedance : Approx. 600 Ω (unbalanced)
General	ALARM IN 1 (Alarm input 1/ Black & white input/ Auto time adjustment input) (x1) ALARM IN 2 (Alarm input 2/ ALARM OUT) (x1), ALARM IN 3 (Alarm input 3/ AUX OUT) (x1)	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	Safety	FCC (Part 15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
	EMC	DC power supply : DC12 V 840 mA/ Approx. 10.2 W PoE (IEEE802.3af compliant) Device : DC48 V 220 mA/ Approx. 10.6 W (Class 0 device)
	Power Source and Power Consumption	-40 °C to +60 °C (-40 °F to 140 °F) ⁷ (Power On range : -30 °C to +60 °C (-22 °F to 140 °F))
	Ambient Operating Temperature	10 to 100 % (no condensation)
	Ambient Operating Humidity	IP66 (IEC60529), Type 4X(UL50), NEMA 4X compliant
	Water and Dust Resistance	50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)
	Shock Resistance	When using base bracket : ø164 mm x 139 mm (H) (ø6-15/32 inches x 5-15/32 inches (H)) Dome radius 42 mm (1-21/32 inches) When using attachment plate only : ø154 mm x 103 mm (H) (ø6-1/16 inches x 4-1/16 inches (H)) Dome radius 42 mm (1-21/32 inches)
	Dimensions	When using base bracket : Approx. 1.6 kg (3.53 lbs) When using attachment plate only : Approx. 1.2 kg (2.65 lbs)
	Mass	Main body : Aluminum die cast, Light gray Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover : Polycarbonate resin, Clear

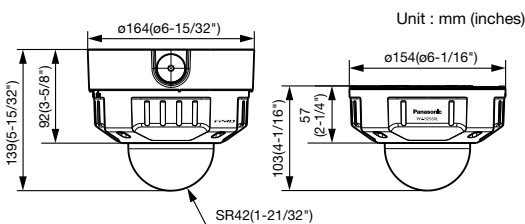
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Plug-in Software for i-VMD

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



*The numeric value may be changed.

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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.

Optional Accessories

Fiber Optic Media Converter Unit

Extension Unit WV-S25F1 (Light gray)	Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber.	• Basic specifications	• Support specifications for SFP module
		Power source : 24 V AC(50 Hz/60 Hz)	SFP Port Type : LC type
		Ambient Operating Temperature : -40 °C to +60 °C (-40 °F to 140 °F) (Power On range : -30 to +60 (-22 °F to 140 °F))	Ethernet Speed : 100/1000 Mbps
		Ambient Operating Humidity : 10 % to 100 % (no condensation)	Supply voltage, current : 3.3 V typical, Max. 300 mA
		Waterproof : IP66(IEC60529)	SFP Cage : Standard mini-SFP cage (For 6.5 mm pitch SFP)
		Shock resistance : IK10(IEC62262)	
		*Refer to website for compatible SFP modules. https://security.panasonic.com/support/info/ <Control No. : C0504> *Different Color Model WV-X55F1 (Fine silver)	

Mount Bracket / Dome Cover / Other

Ceiling Mount Bracket (Embedded) WV-Q169A 	Dome Cover (Smoke type) WV-CW7S WV-CW7SN (Smoke type with ClearSight coating) 	Dome Cover (Clear type with ClearSight coating) WV-CW7CN 	Wall Mount Bracket WV-Q185 (Light gray) Different Color Model WV-Q122A (Fine silver) (This bracket requires WV-Q186 or WV-Q124.) 	Mount Bracket WV-Q186 (Light gray) Different Color Model WV-Q124 (Fine silver) (This bracket requires WV-Q185 or WV-Q122A.)
Sun Shade WV-Q7118 	Ceiling Mount Bracket WV-Q105A 	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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