

## 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

<b>Camera</b>	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 <sup>3</sup>	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)	
<b>Lens</b>	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)
	<b>Adjusting Angle</b>	Horizontal (PAN) angle : ±180°, Vertical (TILT) angle : -30 to +85°, Azimuth (YAW) angle : ±100°
<b>Browser</b>	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
<b>GUI</b>	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	Resolution	H.265 / H.264 JPEG (MJPEG)
<b>Network</b>	Network IF	10Base-T / 100Base-TX, RJ45 connector
	H.265 / H.264 JPEG (MJPEG)	• <b>16 : 9 mode</b> 3072 x 1728 <sup>4</sup> / 2560 x 1440 / 1920 x 1080 / 1280 x 720 / 640 x 360 / 320 x 180 • <b>4 : 3 mode</b> 3072 x 2304 <sup>4</sup> / 2560 x 1920 / 1280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA
	H.265 / H.264 <sup>5</sup>	Constant bit rate / VBR / Frame rate / Best effort
	JPEG / Image Quality	Unicast / Multicast
	Smart Coding	10 steps
	<b>GOP (Group of pictures) control :</b> On (Frame rate control) * / On (Advanced) * / On (Mid) / On (Low) / Off *On (Frame rate control) and On (Advanced) are only available with H.265. <b>Auto VIQS : On / Off</b>	

\*1 Converted value

\*2 The frame rate is limited to 15 fps for level 30 or higher. The dynamic range is 108 dB typ / 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).

<b>Network</b>	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC <sup>6</sup> : 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)
<b>Alarm</b>	SDXC/SDHC/SD Memory Card	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 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)
	Mobile Terminal Compatibility	iPad, iPhone, Android™ mobile terminals
	Alarm Source	3 terminals input, VMD alarm, Command alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, FTP image transfer, Panasonic alarm protocol output
<b>Input/ Output</b>	Monitor Output (for adjustment)	VBS : 1.0 V [p-p] / 75 Ω, composite, φ3.5 mm mini jack An NTSC or PAL signal can be outputted from camera
	Audio input	φ3.5 mm stereo mini jack 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	φ3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Output level : -20 dBV
<b>General</b>	External I/O Terminals	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 (Part15 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	Ambient Operating Temperature : -40 °C to +60 °C (-40 °F to 140 °F) <sup>7</sup> (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), Type 4X(UL50), NEMA 4X compliant
	Shock Resistance	50J (IEC 60068-2-75 compliant), IK10 (IEC 62262)
	Dimensions	When using base bracket : φ164 mm x 139 mm (H) [φ6-15/32 inches x 5-15/32 inches (H)] Dome radius 42 mm (1-21/32 inches) When using attachment plate only : φ154 mm x 103 mm (H) [φ6-1/16 inches x 4-1/16 inches (H)] Dome radius 42 mm (1-21/32 inches)
	Mass	When using base bracket : Approx. 1.6 kg (3.53 lbs) When using attachment plate only : Approx. 1.2 kg (2.65 lbs)
	Finish	Main body : Aluminum die cast, Light gray Outer fixing screws : Stainless steel (Corrosion-resistant treatment) Dome cover : Polycarbonate resin, Clear

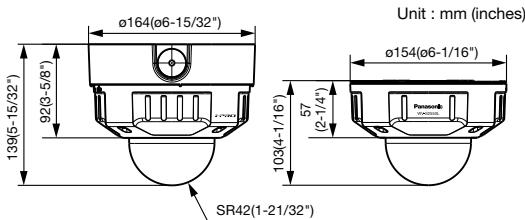
## Bundled License

### 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



\*The numeric value may be changed.

### Trademarks and registered trademarks

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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 Fiber Optic Media Converter Unit supports long distance optical networks by converting copper RJ45 to fiber.

Extension Unit  
**WV-S25F1**  
(Light gray)



#### Basic specifications

Power source	24 V AC(60 Hz/60 Hz)
Ambient Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F) (Power On range: -30 to +60 (-22 °F to 140 °F))
Ambient Operating Humidity	10 % to 100 % (no condensation)
Waterproof	IP66(IEC60529)
Shock resistance	IK10(IEC62262)

\*Refer to website for compatible SFP modules. <https://security.panasonic.com/support/info/> <Control No. : C0504> \*Different Color Model WV-S25F1 (Fine silver)

#### Support specifications for SFP module

SFP Port Type	LC type
Ethernet Speed	100/1000 Mbps
Supply voltage, current	3.3 V typical, Max. 300 mA
SFP Cage	Standard mini-SFP cage (For 6.5 mm pitch SFP)

### Mount Bracket / Dome Cover / Other

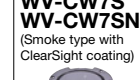
Ceiling Mount Bracket (Embedded)  
**WV-Q169A**



Sun Shade  
**WV-Q7118**



Dome Cover (Smoke type)  
**WV-CW7S**  
**WV-CW7SN**



Ceiling Mount Bracket  
**WV-Q105A**



\* For Indoor installation only

Dome Cover (Clear type with ClearSight coating)  
**WV-CW7CN**

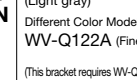


Ceiling Mount Bracket  
**WV-Q121B**

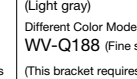


(This bracket requires WV-Q186 or WV-Q124.)

Wall Mount Bracket  
**WV-Q185**  
(Light gray)

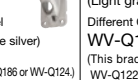


Pole Mount Bracket  
**WV-Q182**  
(Light gray)



(This bracket requires WV-Q185 or WV-Q122A.)

Mount Bracket  
**WV-Q186**  
(Light gray)



Corner Mount Bracket  
**WV-Q183**  
(Light gray)



(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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