

## iA (intelligent Auto) H.265 Network Camera

Panasonic WV-S2511LN 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

- HD 720p 60fps
- iA (intelligent Auto)
- Extreme Super Dynamic 144dB
- Color night vision (0.0005 to 0.008 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

## Specifications

<b>Camera</b>	Image Sensor	Approx. 1/3 type MOS image sensor
	Minimum Illumination	Color : 0.008 lx, BW : 0.004 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 lit) Color : 0.0005 lx, BW : 0.0003 lx (F1.6, Maximum shutter : max. 16/30s, AGC : 11) **
	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 <sup>2</sup>	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 / High light compensation	BLC (Back light compensation) / HLC (High light compensation) / Off (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)	On / Off, 4 areas available
	Intelligent VMD (i-VMD) <sup>3</sup>	Type 4 *Bundled License
	Stabilizer <sup>3</sup>	On / Off (available only in the 30 fps mode)
	Privacy Zone	On / Off (up to 8 zones available)
	Image rotation <sup>4</sup>	0° / 90° / 180° / 270°
	Camera Title (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
Focus Adjustment	Auto back focus / Manual	
<b>Lens</b>	Focal length	2.8 - 10 mm {1/8 inches - 13/32 inches}
	Zoom ratio	3.6 x (Manual zoom / Motorized 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) - ∞
<b>Adjusting Angle</b>	Horizontal : ±180°, Vertical : -30 to +85°, Yaw : ±100°	
<b>Browser GUI</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
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
<b>Network</b>	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution	<b>*1.3 mega pixel [16 : 9] (30/60 fps)</b> _1,280 x 720 / 640 x 360 / 320 x 180
	H.265/ H.264 JPEG (MJPEG)	<b>*1.3 mega pixel [4 : 3] (30 fps)</b> _1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
	H.265/ H.264 <sup>5</sup>	Transmission Mode : Constant bit rate / VBR / Frame rate / Best effort Transmission Type : Unicast / Multicast
	JPEG	Image Quality : 10 steps
	Smart Coding	<b>Smart Facial Coding</b> <sup>3</sup> : On (Smart Facial Coding) / On (Auto VIQS) / Off *Smart Facial Coding is only available with Stream(1). <b>GOP (Group of pictures)</b> : On (Advanced) / On (Mid) / On (Low) / Off *On(Advanced) is only available with H.265.

\*1 Converted value

\*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 "1.3 mega pixel [4 : 3] (30fps mode)" is selected for "image capture mode", "90 °" and "270 °" cannot be selected.

\*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 Including alarms from Plug-in Software

<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, 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 Memory Card (Option)	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
<b>Alarm</b>	Alarm Source	3 terminals input, VMD alarm <sup>7</sup> , 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
<b>Input/ Output</b>	Monitor Output (for adjustment)	VBS : 1.0 V [p-p] / 75 Ω, composite, ø3.5 mm mini jack 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)
<b>General</b>	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 Power Consumption	DC power supply : DC12 V 750 mA, Approx. 9 W PoE (IEEE802.3af compliant) Device : DC48 V 195 mA, Approx. 9.4 W (Class 0 device)
	Ambient Operating Temperature	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) (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), 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)

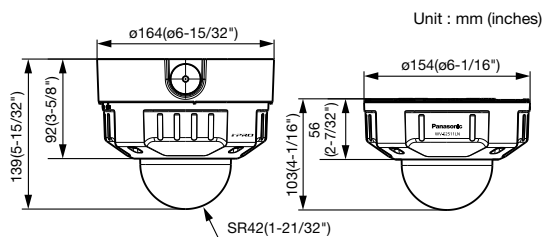
## Bundled License

### 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



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

### Mount Bracket / Dome Cover / Other

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

- 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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