

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

| | | |
|---------------------------|--|--|
| Camera | 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) *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 / 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)*3 | Type 4 *Bundled License | |
| 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 (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) - ∞ | |
| Adjusting Angle | Horizontal : ±180°, Vertical : -30 to +85°, Yaw : ±100° | |
| Browser | 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 | GUI / Setup Menu Language | English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese |
| | Network IF | 10Base-T / 100Base-TX, RJ45 connector |
| Network | Resolution | *1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 |
| | H.265 / H.264 | *1.3 mega pixel [4 : 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 |
| | JPEG (MJPEG) | Constant bit rate / VBR / Frame rate / Best effort |
| | H.265 / H.264 *5 | Unicast / Multicast |
| | JPEG Image Quality | 10 steps |
| Smart Coding | Smart Facial Coding *3 : On (Smart Facial Coding) / On (Auto VIQS) / Off *Smart Facial Coding is only available with Stream(1). GOP (Group of pictures) : 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

| | | | |
|-----------------------------------|--|--|--|
| 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, RTSP/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 | | |
| Alarm | Alarm Source | 3 terminals input, VMD alarm*7, 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 | |
| Input/ Output | 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) | | |
| 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 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) | |

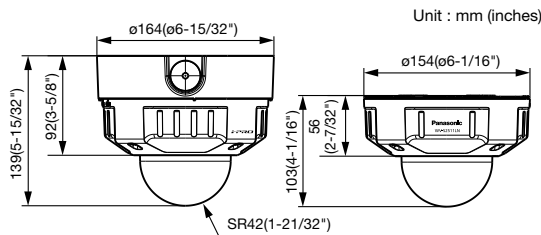
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Plug-in Software for i-VMD

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



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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 Power source : 24 V AC(50 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) |
| | 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) |
| | *Refer to website for compatible SFP modules. https://security.panasonic.com/support/info/ <Control No. : C0504> *Different Color Model WV-S25F1 (Fine silver) |
| | |

Mount Bracket / Dome Cover / Other

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|--|--|--|--|--|
| Ceiling Mount Bracket (Embedded) WV-Q169A | Dome Cover (Smoke type) WV-CW7S | Dome Cover (Smoke type with ClearSight coating) WV-CW7SN | 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-Q121B.) |
| 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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