# Panasonic BUSINESS

# WV-S1531LN



# iA (intelligent Auto) H.265 Network Camera

Panasonic WV-S1531LN 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 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 (0.0008 to 0.012 lx)
- H.265 Smart Coding
- ClearSight Coating
- i-VMD License Bundled

#### **Industry examples**

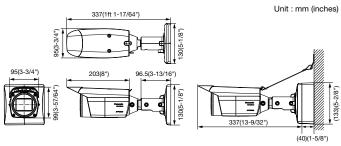
- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Logistics / Education / Hospital / Building



### Specifications

| Camera             | Image Sensor                 | Approx. 1/3 type MOS image sensor  |
|--------------------|------------------------------|--|
|                    | Minimum Illumination         | Color : 0.012 lx, BW : 0.006 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: 0.0008 lx, BW: 0.0004 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  |
|                    | Shutter Speed                | *1/30 Fix to 2/120 Fix is available during 30 fps mode only.   |
|                    |                              | 9 ,  |
|                    | 1.1.11                       | *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 / 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  |
| Lens               | 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   |
|                    | ,                            | 2.8 - 10 mm {1/8 inches - 13/32 inches}  |
| Lens               | Focal length Zoom ratio      |  |
|                    |                              | 3.6 x (Motorized zoom / Motorized focus)   |
|                    | Angular Field of View        | [16 : 9 mode] Horizontal : 31° (TELE) – 112° (WIDE)  |
|                    |                              | Vertical: 17° (TELE) - 60° (WIDE)  |
|                    |                              | [4:3 mode] Horizontal: 26° (TELE) – 91° (WIDE)   |
|                    |                              | Vertical : 19° (TELE) – 67° (WIDE)   |
|                    | Maximum Aperture Ratio       | 1 : 1.6 (WIDE) – 1 : 3.4 (TELE)  |
|                    | Focusing Range               | 0.3 m {11-13/16 inches} - ∞  |
| Adjusting<br>Angle | Ceiling mounting             | Horizontal: ±180 ° (PAN rotation part)   |
|                    |                              | Vertical : 0 ° to 100 ° (TILT rotation part)   |
|                    |                              | Yaw : -190 ° to +100 ° (YAW rotation part)   |
|                    | Wall mounting                | Horizontal: ±100 ° (TILT rotation part)*   |
|                    |                              | Vertical : ±100 ° (TILT rotation part)*  |
|                    |                              | Yaw : -190 ° to +100 ° (YAW rotation part)   |
|                    |                              | * You can change between horizontal and vertical angels by adjusting the PAN rotation part           |
| Browser            | Camera Control               | Brightness, AUX On / Off   |
| GUI                | Audio                        | Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High                                  |
|                    | , tadio                      | Audio Output : On / Off Volume adjustment : Low / Middle / High                                      |
|                    | GUI /                        | English, Italian, French, German, Spanish, Portuguese, Russian,                                      |
|                    | Setup Menu Language          | Chinese, Japanese  |
|                    |                              | 10Base-T / 100Base-TX, RJ45 connector  |
| Network            | Network IF                   |  |
|                    | 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 <sup>5</sup> / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240             |
|                    |                              | Constant bit rate / VBR / Frame rate / Best effort   |
|                    | H.264*6 Transmission Type    | Unicast / Multicast  |
|                    | JPEG Image Quality           | 10 steps   |

### **Appearance**



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- 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.

#### Network 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. Audio Compression G.726 (ADPCM) : 16 kbps / 32 kbps : 64 kbps AAC-LC'7 : 64 kbps / 96 kbps / 128 kbps Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Audio transmission mode Interactive (Full duplex) IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, Supported Protocol SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802,1X, DiffServ 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 Up to 14 users (Depends on network conditions) H.265 / H.264 recording : No. of Simultaneous Users SDXC/SDHC/SD Memory Card (Option) 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) iPad, iPhone, Android™ mobile terminals Mobile Terminal Compatibility 3 terminals input, VMD alarm'8, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, Alarm Alarm Source HTTP alarm notification Indication on browser, FTP image transfer, Panasonic alarm protocol output VBS: 1.0 V [p-p] / 75 Ω, composite, Pin jack Monitor Output Input/ 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 IN1(Alarm input 1/ Black & white input/ Auto time adjustment input). ALARM IN2(Alarm input 2/ ALARM OUT), ALARM IN3(Alarm input 3/ AUX OUT) (x1 for each General Safety UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1 FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply: DC12 V 750 mA, Approx. 9.0 W EMC Power Source and PoE (IEEE802.3af compliant) Device : DC48 V 195 mA, Approx. 9.4 W (Class 0 device) 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) Ambient Operating (Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) Temperature 10 to 100 % (no condensation) IP66, IEC60529 measuring standard compatible, Ambient Operating Humidity Water and Dust Resistance Type 4X(UL50), NEMA 4X compliant Shock Resistance IK10 (IEC 62262) 130 mm (W) x 130 mm (H) x 337 mm (L) {5-1/8 inches (W) x 5-1/8 inches (H) x 13-9/32 inches (L)} Installing using the base bracket Mass (approx.) Approx. 1.6 kg (3.53 lbs) When using the adapter box : Approx. 2.1 kg (4.63 lbs) Main body : Aluminum die cast, Metallic silver Finish

- \*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 "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.
- \*7 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**

#### ■ Mount Bracket

Pole Mount Bracket WV-Q188 (Fine silver)

Pole Mount Bracket WV-Q182 (Light gray)



Corner Mount Bracket WV-Q189 (Fine silver) Corner Mount Bracket WV-Q183 (Light gray)

Front cover section clear part : Clear polycarbonate resin (ClearSight coating



- . The brackets are available in two colors, Fine silver and Light gray.
- Masses and dimensions are approximate. Specifications are subject to change without notice.

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