

For Global WV-S1531LN

::::•PRO

2MP (1080p) Outdoor Bullet 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. By adopting 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

- 2MP (1080p) up to 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
- ONVIF® Profile G / S / T *ONVIF is a trademark of ONVIF, Inc.

Industry examples

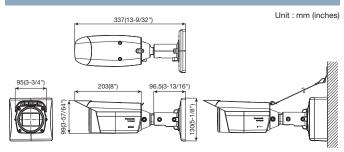
- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
- Retail / Bank / Logistics / Education / Hospital / Building



Specifications

| Camera | Image Sensor | Approx. 1/3 type MOS image sensor |
|--------------------|---------------------------------------|--|
| Camera | Minimum Illumination | Color : 0.012 lx, BW : 0.006 lx |
| | Minimum mummation | (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 |
| | | *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 | Max.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 |
| | 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} |
| | | 2.6 - 10 mm {1/8 inches - 13/32 inches} 3.6 x (Motorized zoom / Motorized focus) |
| | Zoom ratio | |
| | 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 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 |
| | | 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 | •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) |
| | or La (Morea) | •3 mega pixel [4 : 3] (30 ms) 2,048 x 1,536*5 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 |
| | H.265/ Transmission Mode | |
| | | Unicast / Multicast |
| | H.264 ^{*6} Transmission Type | Unicast / Multicast |
| | JPEG Image Quality | 10 steps |

Appearance



Trademarks and registered trademarks

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.
 Android is a trademark of Google LLC.
- ONVIF is trademarks or registered trademarks of Onvif Inc.
 All other trademarks identified herein are the property of their respective owners.
- Important
- Safety Precaution : Carefully read the Basic 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

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 G.711 : 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, SSL/TLS, RTP, FTP, SMTP, DNS, NTP Supported Protocol SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802, 1X, DiffServ, SRTP⁹, MQTT⁹, LLDP⁹ TCP/IP, UDP/IP, HTTP, HTTPS, SSL/TLS, RTSP, RTP, RTP/RTCP, FTP SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ, SRTP⁹, MQTT⁹, LLDP⁹ Up to 14 users (Depends on network conditions) H.265 / H.264 recording : No. of Simultaneous Users SDXC/SDHC/SD Memory Card 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** mode SDHC card, ** SDXC card (except miniSD card and microSD card) Mobile Terminal Compatibility iPad, iPhone, Android™ terminals ONVIF® Profile G/S/T Alarm Alarm Source 3 terminals input, VMD alarm^{*8}, Command alarm, Audio detection alarm SDXC/SDHC/SD memory recording, E-mail notification, Alarm Actions 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 FMC FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024 DC power supply : DC12 V 750 mA, Approx. 9.0 W 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) Power Consumption Ambient Operating Temperature (Power On range : -30 °C to +60 °C {-22 °F to +140 °F}) Ambient Operating Humidity 10 to 100 % (no condensation) Rosahl element Dehumidification Device Water and Dust Resistance IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Shock Resistance IK10 (IEC 62262) 130 mm (W) x 130 mm (H) x 337 mm (L) Dimensions * Installing using the base bracke {5-1/8 inches (W) x 5-1/8 inches (H) x 13-9/32 inches (L)} 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 Mass (approx.) Finish Front cover section clear part : Polycarbonate resin (with ClearSight coating), Clear

*1 Converted value

*2 Super Dynamic function is automatically set off on 60 fps mode.

³ Stabilizr, 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

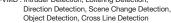
7 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding - Low Complexity). *8 Including alarms from Plug-in Software

*9 It may be necessary to upgrade the firmware to use these protocols.

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,





Notification sent to the monitoring screen

Optional Accessories

Mount Bracket



Panasonic

Panasonic Corporation

Panasonic i-PRO Sensing Solutions Co., Ltd.

https://i-pro.com/corp/ https://i-pro.com/global/en/surveillance

https://www.linkedin.com/company/i-pro-sensing-solutions-co-ltd/ (2A-181GA-BB)

For Global