WV-S3131L

iA (intelligent Auto) H.265 Compact Dome Camera

Panasonic WV-S3131L is a compact & simple design multifunction camera that achieves high visibility even under extreme conditions and can be placed in a small space without damaging the landscape. 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 conventional 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 depends on scene.

Extreme image quality allows evidence to be captured even under challenging conditions
- Auto Shutter speed control for fast moving objects with Intelligent Auto
- 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 on entrance.
- Built-in IR LED to produce a clear monochrome image in 0 lux conditions with 15 m (49 feet) irradiation distance
- Wide area surveillance even in compact design. moreover, corridor mode to survey vertically long area.

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 microSDXC/microSDHC/microSD 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 (0.0019 to 0.03 lx)
- H.265 Smart Coding
- Built-in IR LED
- Corridor mode
  (90 degrees or 270 degrees in image rotation)
- i-VMD License Bundled

Industry examples
- Education
- Retail
- Bank (ATM)
- Building
Specifications

Camera Image Sensor
Approx. 1/3 type CMOS image sensor

Minimum Illumination
- Color: [0.003 lx, BW: 0.015 lx]
- [F2.3, Maximum shutter : Off / 100 (30s, AGC: 11)]
- BW: [0.0 lx]
- [F2.3, Maximum shutter : Off / 100 (30s, AGC: 11), when the IR LED is on]
- Color: [0.009 lx, BW: 0.0009 lx]
- [F2.3, Maximum shutter : max. 16,000 (30s, AGC: 11)]

White Balance
AWB: [2,500 to 10,000 K, AWB1: 7,000 to 8,000 K, AWB2: 2,500 to 6,000 K]

Maximum Shutter
Max. 1/10000 to Max. 1/60 s

Intelligent Auto
On / Off

Super Dynamic
On / Off, the level can be set in the range of 0 to 31.

Dynamic Range
Max.144 dB typ. (Super Dynamic / Intelligent Auto / Off)

Adaptive Black Stretch
The level can be set in the range of 0 to 11.

Back light compensation
On / Off (Light Off / On / Light On) / Auto (Light DE / Auto / Auto DE)

Image rotation
[90 °] and [270 °] are only available for the [16 : 9 mode].

Maximum gain
The level can be set in the range of 0 to 255.

Color/BW (ICR)
Off / ICR (IR Light Off / On / Light On) / Auto (IR Light / Auto / Auto DE)

IR LED Light
High / Middle / Low / Off, Maximum irradiation distance: 15 m (Approx. 49 ft)

Digital Noise Reduction
The level can be set in the range of 0 to 255.

Video Motion Detection (VMD)
On / Off, 8 areas available

Intelligent VMD*2
Type 4 *Bundled License

Privacy Zone
On / Off (up to 8 zones available)

Image rotation*4
- 0 ° / 90 ° / 180 ° / 270 °

Mirror
On / Off

Camera File (DCS)
On / Off / Up to 20 characters (alphabetic / characters, marks)

Lens
Digital (electronic) zoom
- Choose from 9 levels of x1, x2, x4

Focal length
2.8 mm (1/8 inches)

Angular Field of View
- [16:9 mode]: Horizontal: 108° Vertical: 60°
- [4:3 mode]: Horizontal: 99° Vertical: 66°

Maximum Aperture Ratio
1.2:3

Focus range
0.5 m (19-11/16 inches) — ∞

Adjusting Angle
- Horizontal (PAN) angle: ±45°, Vertical (TILT) angle: 0 to +90°,
- Azimuth (YAW) angle: ±90°

Browser GUI
- Camera Control: English, Italian, French, German, Spanish, Portuguese, Russian,
- Setup Menu Language: Chinese, Japanese

Network Interface
- Network IF: 10Base-T / 100Base-TX, RJ45 connector

Supported Protocol
- IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTCP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP, IEEE 802.1X, Diffserv
- IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTCP, FTP, SMTP, DHCP, DNS, DNS6, NTP, SNMP, UPnP, ICMP, ARP, IEEE 802.1X, Diffserv

No. of Simulataneous Users
Up to 14 users (Depends on network conditions)

microSD/microSDHC/microSDXC
Smart Facial Coding
H.264*6 recording

Memory Card*7
- Manual REC / Alarm REC (Pre/Post) / Schedule REC /
Memory Card*7

Backup upon network failure
Freezing / Blank

JPEGS recording
- Manual REC / Alarm REC (Pre/Post) / Backup upon network failure

Compatible microSDXC/microSDHC/microSD Memory Card:
- Panasonic 2 GB, 4 GB, 8 GB, 32 GB, 64 GB model

microSDHC card, **microSDXC card

Built-in microphone
Non-directional electret condenser microphone

Audio Compression
- G.726 (ADPCM) : 16 kbps / 32 kbps
- G.711 : 64 kbps

Network Interface
- A/VC-LC7 : 64 kbps / 96 kbps / 128 kbps

Input/Output
- Built-in microphone

microSDXC/microSDHC/microSD memory recording, E-mail notification,
- HTTP / Alarm notification indication on browser, FTP image transfer,
- Panasonic alarm protocol output

General
- Safety
  - UL60950-1, CUL, IEC60950-1-07, CE, EC60950-1

- EMC
  - FCC, Part15 Subpart B, ClassA, ClassB, ICES-003 ClassA,
  - IEC61000-3 ClassA

- Power Source and Power Consumption
  - Power: IEEE802.3af compliant (Device: 48V DC)
  - Power Consumption: 6W (approx. 8.9 W Class 2 device)

- Ambient Operating Temperature
  - 0 °C to +40 °C (32 °F to 104 °F)

- Ambient Operating Humidity
  - 10 to 90 % (no condensation)

- Dimensions
  - 10.5 mm x 1.7 mm x 28.5 mm (0.4 inches x 0.7 inches x 1.1 inches)
  - Dome radius: 27 mm (1.1 inches)
  - Mass (approx.)
    - Approx. 25.5 g (0.9 oz)

- Finish
  - Main body: ABS resin, Ice white
  - Dome section: Polycarbonate resin, Clear

1: Converted value
2: Super Dynamic function is automatically set on 60 fps mode.
3: Smart Facial Coding, i-VMD can not be used at the same time.
4: Setings of [90 °] and [270 °] are only available for the [16 : 9 mode].
5: Used by super resolution techniques
6: Transmission for 4 streams can be individually set.
7: When recording audio on a microSDXC/microSDHC/microSD memory card,
   - only use A/VC-LC (Advanced Audio Codec) - Low Complexity
   - The replacement cycle (target) of a microSD memory card differs from that of a standard size SD memory card.

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*2 Super Dynamic function is automatically set on 60 fps mode.
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For details, check the content of the Panasonic Support website
(https://security.panasonic.com/support/info/ [Control No.: C0017]).

*8 The replacement cycle (target) of a microSD memory card differs from that of a standard size SD memory card.

Trademarks and registered trademarks
- i-VMOD is a trademark of Apple Inc., registered in the U.S. and other countries.  
- ONIF and the ONIF logo are trademarks or registered trademarks of Onvif Inc.
- All other manufacturers' products used on the network.

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.

Bundled License
- Plug-in Software for i-VMD
- i-VMOD is possible to detect objects in the specified area by advanced video analysis technology.

- i-VMOD: Intruder Detection, Loitering Detection, Direction Detection, Scene Change Detection, Object Detection, Cross Line Detection

- Dome Cover
  - Smoke type
  - WV-CW6SA

Optional Accessory

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- *1 Including alarms from Plug-in Software

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