Panasonic
BUSINESS

WV-S3131L

Full HD Indoor Compact Dome Network 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. By adopting 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 up to 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
- Onvif Profile G / S / T

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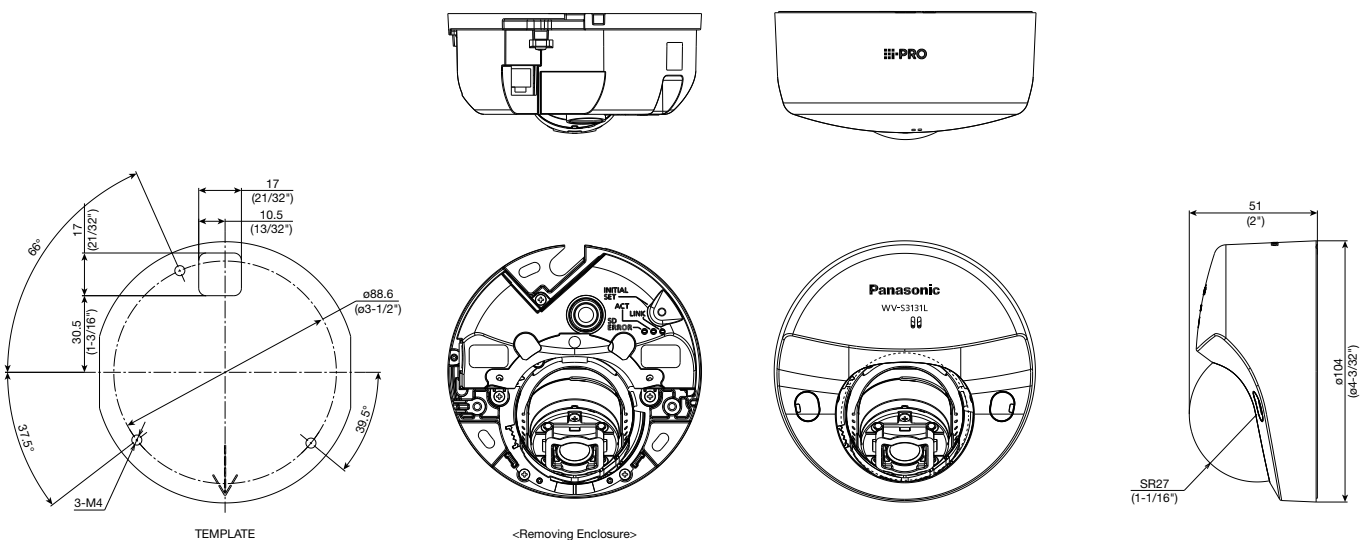- Retail
- Bank (ATM)
- Building

:::i-PRO

Specifications

Camera	Image Sensor	Approx. 1/3 type CMOS image sensor
	Minimum Illumination	Color : 0.03 lx, BW : 0.015 lx (F2.3, Maximum shutter : Off (1/30s), AGC : 11) BW : 0 lx (F2.3, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is lit) Color : 0.0019 lx, BW : 0.0009 lx (F2.3, 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)
	Maximum shutter	Max. 1/10000 s to Max. 16/30 s
	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 typ. (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	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 : 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, 4 areas available
	Intelligent VMD (i-VMD)*3	Type 4 *Bundled License
	Privacy Zone	On / Off, Up to 8 zones available
	Image rotation*4	0 ° / 90 ° / 180 °(Upside-down) / 270 °
	Mirror	On / Off
	Camera Title (OSD)	On / Off, Up to 20 characters (alphanumeric characters, marks)
Lens	Zoom Ratio	1 x Optical
	Digital (electronic) zoom	Choose from 3 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 : 89° 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	Brightness
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Resolution H.265/ H.264 JPEG (MJPEG)	•2 mega pixel [16 : 9] (30/60 fps) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 •3 mega pixel [4 : 3] (30 fps) 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 H.264*6	Constant bit rate / VBR / Frame rate / Best effort
	Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps
	Smart Coding	GOP(Group of pictures) control [When H.264 is selected] On(Mid) / On(Low) / Off [When H.265 is selected] On(Frame rate control) / On(Advanced) / On(Mid) / On(Low) / Off **Smart Facial Coding*** Off / On(AUTO VIQS) / On(Smart Facial Coding) *Smart Facial Coding is only available with Stream(1).

Network	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*7 : 64 kbps / 96 kbps / 128 kbps
	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, 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)
	microSDXC/microSDHC/ microSD Memory Card*8*9	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 microSDXC/microSDHC/microSD Memory Card : Panasonic 2 GB, 4 GB*, 8 GB*, 32 GB*, 64 GB**model *microSDHC card, **microSDXC card
	Mobile Terminal Compatibility	iPad, iPhone, Android™ terminals
	ONVIF Profile	G / S / T
Alarm	Alarm Source	VMD alarm*10, Command alarm, Audio detection alarm
	Alarm Actions	microSDXC/microSDHC/microSD memory recording, E-mail notification, HTTP alarm notification Indication on browser, FTP image transfer, Panasonic alarm protocol output
Input/ Output	Built-in microphone	Nondirectional electret condenser microphone
General	Safety	UL (UL60950-1 2Ed), c-UL (CAN/CSA C22. NO.60950-1-07), CE, IEC60950-1
	EMC	FCC (Part15 Subpart B, ClassA, SDoC), ICES-003 ClassA, EN55032 ClassB, EN55024
	Power Source and Power Consumption	PoE (IEEE802.3af compliant) Device : DC48 V 80 mA, Approx. 3.8 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	ø104 mm x 51 mm (H) {ø4-3/32 inches x 2 inches (H)} Dome radius 27 mm {1-1/16 inches}
	Mass (approx.)	Approx. 255 g {0.56 lbs}
	Finish	Main body : ABS resin, Sail white Dome section : Polycarbonate resin, Clear

*1 Converted value
*2 Super Dynamic function is automatically set off on 60 fps mode.
*3 Smart Facial Coding, i-VMD can not be used at the same time.
*4 Settings 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 an microSDXC/microSDHC/microSD memory card,
only use AAC-LC (Advanced Audio Coding - Low Complexity).
*8 The replacement cycle (target) of a microSD memory card differs from that of a standard size SD memory card.
For details, check the content of the Panasonic Support website
(https:// security.panasonic.com/support/info/ (Control No.: C0117>).
*9 For details, check the content of the Panasonic Support Web Site
(https://security.panasonic.com/support/info/ <Control No.: C0107><Control No.: C0306><Control No.: C0307>)
*10 Including alarms from Plug-in Software

Appearance
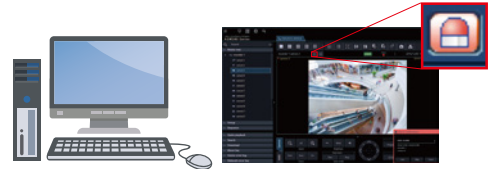
Unit : mm (inches)

TEMPLATE

<Removing Enclosure>

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

Notification sent to the monitoring screen

Optional Accessories

■ Mount Bracket / Dome Cover

Ceiling Mount Bracket **WV-QCL100-W** (i-PRO white)	Wall Mount Bracket **WV-QWL500-W** (i-PRO white)	Adapter Box **WV-QJB500-W** (i-PRO white)	Pole Mount Bracket **WV-QPL500-W** (i-PRO white)	Corner Mount Bracket **WV-QCN500-W** (i-PRO white)	Dome Cover (Smoke type) **WV-CW6SA**
*For indoor installation only		(This bracket requires WV-QWL500-W.)			

•Brackets are available in four colors, Fine silver, Light gray, Gray and i-PRO white. It is possible to use them in different color combinations.

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