

WV-S3531L

iA (intelligent Auto) H.265 Compact Dome Camera

Panasonic WV-S3531L 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 involving headlights and shadows on night streets
- 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.
- Environmental durability : IP66, IK10

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

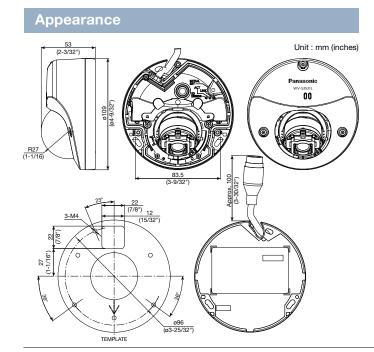
- Education
- Retail
- Bank (ATM)
- Building





Specifications

Camera	Image Sensor	Approx. 1/3 type CMOS image sensor
	Minimum Illumination	Color : 0.03 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	144 dB typ. (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	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	g Angle	Horizontal (PAN) angle : ±45°, Vertical (TILT) angle : 0 to +90°,
		Azimuth (YAW) angle : ±90°
Browser	Camera Control	Brightness
GUI	GUI /	English, Italian, French, German, Spanish, Portuguese, Russian,
	Setup Menu Language	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)
		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 Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps
	Smart Coding	GOP(Group of pictures) control
		[When H.264 is selected] Off / On(Low) / On(Mid)
		[When H.265 is selected] Off / On(Low) / On(Mid) /
		On(Advanced) / On(Frame rate control)
		Smart Facial Coding*
		Off / On(AUTO VIQS) / On(Smart Facial Coding)
		*Smart Facial Coding is only available with Stream(1).



DISTRIBUTED BY :

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/	H.265 / H.264 recording :
	microSD	Manual REC / Alarm REC (Pre/Post) / Schedule REC /
	Memory Card*8*9	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™ mobile terminals
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/	Built-in microphone	Nondirectional electret condenser microphone
Output		
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, ECE-R10, EN50498, EN50121
	Power Source and	PoE (IEEE802.3af compliant) Device :
	Power Consumption	DC48 V 80 mA, Approx. 3.8 W (Class 2 device)
	Ambient Operating	-30 °C to +50 °C (-22 °F to 122 °F)
	Temperature	{Power on range : -20 °C to +50 °C (-4 °F to +122 °F)}
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Water and Dust Resistance	IP66 (IEC60529), Type 4X(UL50), NEMA 4X compliant
	Shock Resistance	IK10 (IEC 62262)
	Railway Application	EN50155 : 2017 Class OT2/ST2 (EN 50155 : 2007 Class TX), IEC62236-3-2
	Dimensions	ø109 mm x 53 mm (H) {ø4-9/32 inches x 2-3/32 inches (H)}
		Dome radius 27 mm {1-1/16 inches}
	Mass (approx.)	Approx. 410 g {0.91 lbs}
	Finish	Main body : Aluminum die cast, Light gray
		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

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



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 U.C.
- Android is a trademark of Google LLC.
 ONVIF and the ONVIF logo are 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 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.



https://security.panasonic.com

f https://www.facebook.com/Panasonicnetworkcamera/

(2A-215AA)