Panasonic BUSINESS

WV-S3512LM



iA (intelligent Auto) H.265 Compact Dome Camera

Panasonic WV-S3512LM 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 134dB 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 134dB 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, EN50155

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

- HD 720p 60fps
- iA (intelligent Auto)
- Extreme Super Dynamic 134dB
- Color night vision (0.0013 to 0.02 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

- Train
- Light rail transit
- Subway car
- Bus
- Railroad Crossing

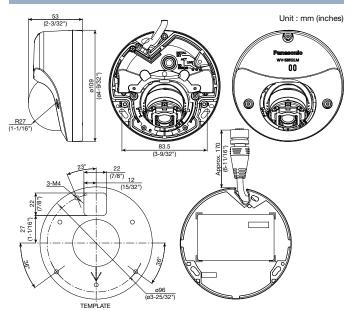




Coocifications

Camera	Image Sensor		Approx. 1/3 type CMOS image sensor
	Minimum Illumination		Color : 0.02 lx. BW : 0.01 lx
			(F2.3, Maximum shutter : Off (1/30s), AGC : 11)
	Mark D. I.		BW : 0 lx
			(F2.3, Maximum shutter : Off (1/30 s), AGC : 11, when the IR LED is life
			Color: 0.0013 lx. BW: 0.0007 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		134 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)
	Zoom Ratio		1 x Optical
Lens			
	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 : 97°
			Vertical : 54°
			[4:3 mode] Horizontal:97°
			Vertical : 72°
	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	Camera Control		Brightness
GUI	GUI /		English, Italian, French, German, Spanish, Portuguese, Russian,
	Setup Menu Language		Chinese, Japanese
Network			10Base-T / 100Base-TX, M12 connector
	Resolution		•1.3 mega pixel [16 : 9] (30/60 fps)
	H.265/ H.264		1,280 x 720 / 640 x 360 / 320 x 180
	JPEG (MJPEG)		•1.3 mega pixel [4 : 3] (30 fps)
	S. E.G. (IVIOI EG)		1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
	H.265/	Transmission Mode	
			Unicast / Multicast
		Transmission Type	
	JPEG Image Quality Smart Coding		10 steps
			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)

Appearance



Network | Audio Compression G.726 (ADPCM): 16 kbps / 32 kbps : 64 kbps AAC-LC*6 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 No. of Simultaneous Users microSDXC/microSDHC/ Up to 14 users (Depends on network conditions) H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / microSD Memory Card*7*8 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 iPad, iPhone, Android™ mobile terminals Mobile Terminal Compatibility Alarm Alarm Source VMD alarm*9, Command alarm, Audio detection alarm 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 UL (UL60950-1 2Ed), c-UL (CAN/CSA C22, NO.60950-1-07), CE, IEC60950-1 Safety EN45545 compliant, NFPA130*10 FCC (Part15 Subpart B, ClassA, SDoC), ICES-003 ClassA, EMC EN55032 ClassB, EN55024, ECE-R10, EN50498, EN50121 Power Source and PoE (IEEE802,3af compliant, alternative A) Device: Power Consumption DC48 V 80 mA, Approx. 3.8 W (Class 2 device) Ambient Operating -40 °C to +60 °C (-40 °F to 140 °F)*1 {Power On range : -20 °C to +60 °C (-4 °F to +140 °F)} Temperature Ambient Operating Humidity 10 to 100 % (no condensation) Water and Dust Resistance IP66 (IEC60529), Type 4X(UL50), NEMA 4X compliant IK10 (IEC 62262) Shock Resistance EN50155 : 2017 Class OT2/ST2 (EN 50155 : 2007 Class TX), IEC62236-3-2 Railway Application 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} in body : Aluminum die cast, Light gray

- *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 Transmission for 4 streams can be individually set
- *6 When recording audio on an microSDXC/microSDHC/microSD memory card. only use AAC-LC (Advanced Audio Coding - Low Complexity).
- *7 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

Dome section : Polycarbonate resin, Clear

- (https://security.panasonic.com/support/info/(Control No.: C0117>).
- *8 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>)
- *9 Including alarms from Plug-in Software
- *10 This product satisfies this standard except for some parts.
- *11 In the environment where IR LED is always turned on or 60 fps mode, make sure that the ambient operating temperature is between -40 °C to +50 °C {-40 °F to +122 °F}.

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



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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
- Masses and dimensions are approximate. Specifications are subject to change without notice.

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