:::·PRO

WV-S3512LM

HD In-vehicle Compact Dome Network Camera

The 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. 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 vehicles 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 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 up to 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
- ONVIF $\$ Profile G / S / T *ONVIF is a trademark of ONVIF, Inc.

Industry examples

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



Specifications

Camera	Image Sensor	Approx. 1/3 type CMOS image sensor
ounicia	Minimum Illumination	Color : 0.02 lx, BW : 0.01 lx
	Winin Hum Indianon	(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 li
		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	Max.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)	
	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		Choose from 3 levels of x1, x2, x4
	Digital (electronic) zoom	
	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	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, 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)
		1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240
	H 265/ Transmission Mode	Constant bit rate / VBR / Frame rate / Best effort
	H.264*5 Transmission Type	Unicast / Multicast
	JPEG Image Quality	10 steps
		GOP(Group of pictures) control
	Smart Coding	
		[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).

Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps
	G.711 : 64 kbps
	AAC-LC*6 : 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, SSL/TLS'7, SRTP'7, SFTP'7, MQTT'7, LLDP'7
	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, SSL/TLS'7, SRTP'7, SFTP'7, MQTT'7, LLDP'7
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 / Backup upon network failure
Memory Card*8*9	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 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,
	TCP alarm notification output
Built-in microphone	Nondirectional electret condenser microphone
·	
Safety	UL (UL60950-1 2Ed), c-UL (CAN/CSA C22. NO.60950-1-07), CE, IEC60950-1
	EN45545 compliant, NFPA130*11
EMC	FCC (Part15 Subpart B, ClassA, SDoC), ICES-003 ClassA,
	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)*12
Temperature	{Power On range : -20 °C to +60 °C (-4 °F to +140 °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
	Supported Protocol No. of Simultaneous Users microSDXC/microSDHC/ microSDX Memory Card ¹⁸¹⁹ Mobile Terminal Compatibility ONVIF [®] Profile Alarm Source Alarm Actions Built-in microphone Safety EMC Power Source and Power Consumption Ambient Operating Temperature Ambient Operating Humidity Water and Dust Resistance Shock Resistance Shock Resistance Railway Application Dimensions Mass (approx.)

*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 ARC-LC (Advanced Audio Coding - Low Complexity).
77 It may be necessary to upgrade the firmware to use these protocols
*8 The replacement cycle (target) of a microSD memory card differs from that of a standard size SD memory card.

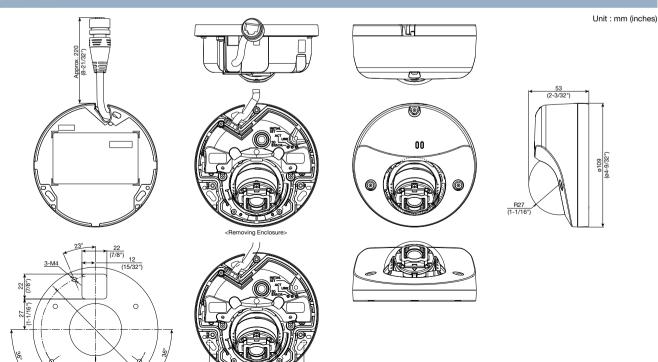
For details, check the content of the i-PRO Support website (https://i-pro.com/global/en/surveillance/training-support/support/technical-information <Control No.: C0117>). *9 For details, check the content of the i-PRO Support Web Site

(http://procend/gballen/surveillance/training-surport/support/support/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/surport/

*10 Including alarms from Plug-in Software

*11 This product satisfies this standard except for some parts. *12 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}.

Appearance



TEMPLATE

ø96 (ø3-25/32")

83.5 (3-9/32")

Mount Bracket / Dome Cover / Other

Base bracket

WV-QJB502-G

Dome Cover (Smoke type) WV-CW6SA

Ceiling Mount Bracket

WV-QCL101-W (i-PRO white)

*For indoor

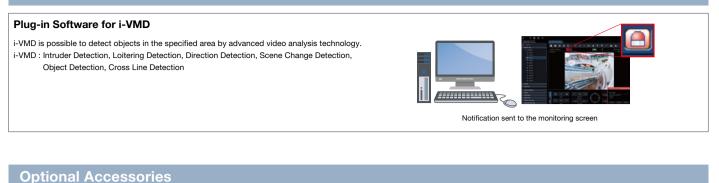
installation only

Corner Mount Bracket

WV-Q183 (Light gray)

requires WV-QWL500-G.)

(This bracket



Adapter Box

(This bracket

requires WV-QWL500-G.)

WV-QJB500-G

(Gray)

Wall Mount Bracket

WV-QWL500-G

•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.

Important

- Safety Precautions : Carefully read the Basic Information, Installation Guide and Operating Instructions before using this product.

- i-PRO Co., Ltd. cannot be held responsible for the performance

of the network and/or other manufacturers' products used on the network.

Trademarks and registered trademarks

- iPad and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

Pole Mount Bracket

WV-Q182 (Light gray)

requires WV-QWL500-G.)

(This bracket

- Android is a trademark of Google LLC.
 ONVIF is a trademark of ONVIF, Inc.
- All other trademarks identified herein are the property of their respective owners.

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



i-PRO Co., Ltd. https://i-pro.com/ (2A-218EL)