

Full HD Rugged Mobile Network Camera

WV-SBV131M

HD Rugged Mobile Network Camera

WV-SBV111M

discontinued



Full HD / 1,920 x 1,080 H.264 Full HD Rugged Mobile Network Camera (wv-sbv131M) HD / 1,280 x 720 H.264 HD Rugged Mobile Network Camera (wv-sbv111M)

Key Features

- 1080p Full HD images up to 30 fps (WV-SBV131M)
- 720p HD images up to 30 fps (WV-SBV111M)
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Smart coding Technology:

Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.

Auto VIQS (Variable Image Quality on Specified area) function recognizes the no movement area in a video automatically and lowering the resolution of it to reduce the data size.

With the latest bit rate reducing technology, GOP control,

Auto VIQS, 3D-MNR (Multi process Noise Reduction) and

Auto VIQS, 3D-MNR (Multi process Noise Reduction) and FDF (Frequency Divided Filter), the network bandwidth and the disk space of recorder can be saved.

- High sensitivity with Day/Night (Electrical) function:
 0.1 lx (Color), 0.06 lx (B/W) at F2.2 (WV-SBV131M)
 0.04 lx (Color), 0.03 lx (B/W) at F2.2 (WV-SBV111M)
- VIQS (Variable Image Quality on Specified area) technology allows the designated eight areas to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Digital Noise Reduction :
 - **3D-MNR (Multi process Noise Reduction)** ensures noise reduction in various conditions and achieves a low bit rate under low illumination.
- FDF (Frequency Divided Filter): Removing fine noise generated under low illumination to achieve a low bit rate.
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Electronic sensitivity enhancement : Auto (Up to 16x) / OFF
- · Light control modes:
 - ELC (maximum exposure time):

The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.

- 2x, 4x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.

- Camera title display: Up to 20 alphanumeric characters on the browser
- Alarm sources including VMD and TCP alarm notification command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and TCP alarm notification output.
- JPEG Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- Fog compensation function equipped as standard.
- HLC (High Light Compensation) technology reduces strong light sources such as vehicle headlights to prevent camera being blinded.
- H.264 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode: H.264 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF® compliant model
- Low profile design for discrete installation
- "Railway applications Electronics equipment used on rolling stock" compatible with EN50155-T3, EN50121, ECE-R10, EN45545, EN50498
- Wide coverage
 - WV-SBV131M [16 : 9 mode] Horizontal: 109 $^\circ$ Vertical: 73 $^\circ$ WV-SBV111M [4 : 3 mode] Horizontal: 104 $^\circ$ Vertical: 85 $^\circ$
- The camera conforms to the IP66, Type 4X (UL50) and IP6K9K, is compliant with NEMA 4X ratings, and provides high dust resistance and waterproof performance.
- Achieves high-level vibration resistance with EN50155 and MIL-STD-810G compliance
- Adoption of a scratch resistant dome cover with a compact and sleek design is optimal for cameras installed on the outside of a vehicle.
- Vandal resistant mechanism for high reliability

Specifications

Total	ches (H) x 5/32 inches (V)} er : Off (1/30s), AGC : High)
Scanning W-SBV131M 5.28 mm (H) x 3.30 mm (V) (7/32 in	ches (H) x 5/32 inches (V)} er : Off (1/30s), AGC : High)
Area WV-SBV111M 4.86 mm (H) x 3.65 mm (V) (3/16 in Minimum WV-SBV131M Color: 0.1 kx (F2.2, Maximum shutt 0.007 kx (F2.2, Maximum shutt BW: 0.06 kx (F2.2, Maximum shutt 0.004 kx (F2.2, Maximum shutt 0.003 kx (F2.2, Maximum shutt 0.003 kx (F2.2, Maximum shutt 0.003 kx (F2.2, Maximum shutt BW: 0.03 kx (F2.2, Maximum shutt BW: 0.002 kx (F2.2, Maximum shutt BW: 0.002 kx (F2.2, Maximum shutt 0.002 kx (F2.2, Maximum s	ches (H) x 5/32 inches (V)} er : Off (1/30s), AGC : High)
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Light Control Mode ELC / Indoor scene 50 Hz / Indoor	
-	. ,
	scene 60 Hz
Wide dynamic range On / Off	
Adaptive Black Stretch On / Off (only when Wide dynamic	range : Off)
Fog compensation On / Off (only when Wide dynamic	
High light compensation (HLC) On / Off (only when Wide dynamic range /	
AGC On (High) / On (Mid) / On (Low) / Of	
Maximum shutter max. 1/10,000 s, max. 1/4,000 s, max	
max. 1/500 s, max. 1/250 s, max. 1/1	
max. 2/120 s, max. 2/100 s, max. 3 max. 1/30 s, max. 2/30 s, max. 4/3	
max. 10/30 s, max. 16/30 s	0 5, 111ax. 0/30 5,
Day/Night (Electrical) Off / Auto	
Digital Noise Reduction High / Low	
Video Motion Detection On / Off, 4 areas available	
Privacy Zone On / Off (up to 8 zones available)	
VIQS On / Off (Max. 8 locations)	
Camera Title (OSD) Up to 20 characters (alphanumeric	characters, marks), On / Off
Focus Adjustment MANUAL	
Lens Focal Length 1.95 mm {1/16 inches}	
Digital (electronic) zoom Choose from 3 levels of x1, x2, x4	
Zoom ratio x1	. 0
WV-SBV131M: Extra zoom x3 (16 WV-SBV111M: Extra zoom x2	: 9 mode) / x2.5 (4 : 3 mode)
Angular WV-SBV131M [16 : 9 mode] Horizontal : 109 ° Ve	rtical · 73 °
Field of View [4 : 3 mode] Horizontal : 97 ° Ve	
WV-SBV111M [16 : 9 mode] Horizontal : 104 ° Ve	
[4 : 3 mode] Horizontal : 104 ° Ve	
F Number F2.2	
Focus Distance 0.5 m - ∞	
Adjusting Angle Horizontal: ±170 °, Vertical: ±90 °	
Image tilt adjustment range : -170 °	(Left) to +170 ° (Right)
Browser Camera Control Brightness GUI Display Mode Spot, Quad: Image from 16 camera	so oon he dienleved in
GUI Display Mode Spot, Quad: Image from 16 camera 4 different Quad screens or 16 split	
20 characters camera title available	
Camera Title Up to 20 alphanumeric characters	**
Clock Display Time: 12H/24H	
Date : 5 formats on the browser	
Summer time (Manual)	
One Shot Capture A still picture will be displayed on a	
SD Memory Still or motion Images recorded in t	the SDXC/SDHC/SD
Data Download memory card can be downloaded.	
GUI/Setup English, Italian, French, German, S	panish, Portuguese,
Menu Language Chinese, Russian, Japanese	DVC/CDLIC/CD maman/
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System Log	t° Windows® 8.1,

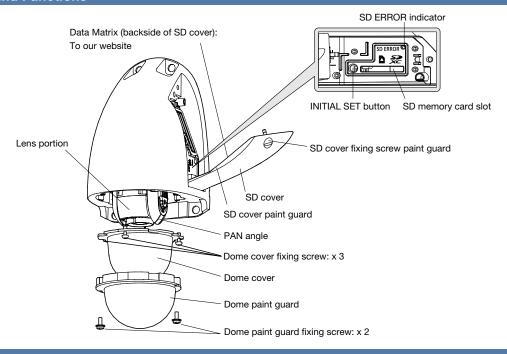
Network	H.264/	Bit Rate/	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /
INCLWORK	MPEG-4*4		4,096 / 6144* / 8,192* / 10,240* / 12,288* / 14,336* / 16,384* /
	IVII LG-4	Ollerit	20,480* / 24,576* / 30,720* / 40,960 kbps*
			* The available range of the H.264 bit rate varies depending on
			the setting selected for "image capture size".
		Image Quality	<when best="" bit="" constant="" effort="" is="" or="" rate="" selected=""></when>
		inage duality	Low / Normal / Fine
			<when bit="" is="" rate="" selected="" variable=""></when>
			0 SUPER FINE /1 FINE /2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9LOW
		Smart Coding mode	
			Unicast / Multicast
	JPEG	Image Quality	
			0.1 fps - 30 fps
		Transmission Type	· · ·
	Total Bit R		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 /
			8,192 kbps / Unlimited
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,
			SNMP, DHCPv6, MLD, ICMP, ARP
			IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,
F			SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP
	FTP Client		Alarm image transmission, FTP periodic transmission
	No. of Simulta		(When the FTP transmission is failed, backup on an optional
			SDXC/SDHC/SD memory card is available.)
		Itaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card(Option) Cellular Phone Compatibility		Manufactured by Panasonic (except miniSD card and microSD card)
			SDXC memory card : 64 GB, 128 GB
			SDHC memory card : 4 GB, 8 GB, 16 GB, 32 GB
			SD memory card : 256 MB, 512 MB, 1 GB, 2 GB
			JPEG image
	Mobile Terminal Compatibility		iPad, iPhone, iPod touch(iOS 4.2.1 or later),
			Android™ mobile terminals
Alarm	Alarm Source		VMD, Command alarm
	Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification,
			Indication on browser, FTP image transfer, TCP alarm notification output
	Alarm Log		With SDXC/SDHC/SD memory card: 5,000 logs,
			without SDXC/SDHC/SD memory card: 1,000 logs
	Schedule		VMD
General	Safety/EMC Standard		<safety></safety>
			UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
			<emc></emc>
			FCC Part15 ClassA, ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and		PoE (IEEE802.3af compliant) /
	Power Consumption		PoE (Alternative A): 48 V DC: 80 mA /
			Approx.3.8 W (Class 2 device)
			-40 °C to +60 °C {-40 °F to 140 °F}
			(Power On range : -30 °C to +60 °C {-22 °F to 140 °F})
	Ambient Operating Humidity		10 % to 90 % (no condensation)
	Impact Protection		Compliant with IK10 (IEC 62262)
	Water and Dust Resistance		IP66 (IEC60529), IP6K9K, Type 4X (UL50), NEMA 4X compliant *5
	Railway Application		EN50155-T3, EN50121, ECE-R10, EN45545, EN50498
	Dimensions		100 mm {3-15/16 inches} (W), 80 mm {3-5/32 inches} (H),
			161 mm {6-11/32 inches} (D)
	Mass (approx.)		Approx. 750 g {1.65 lbs}
	Finish		Main body : Aluminum die cast, Light gray
			Dome cover : Polycarbonate resin, Clear (with hard coating)
	Others		Tamper-resistant dome cover *6

^{*1} Converted value

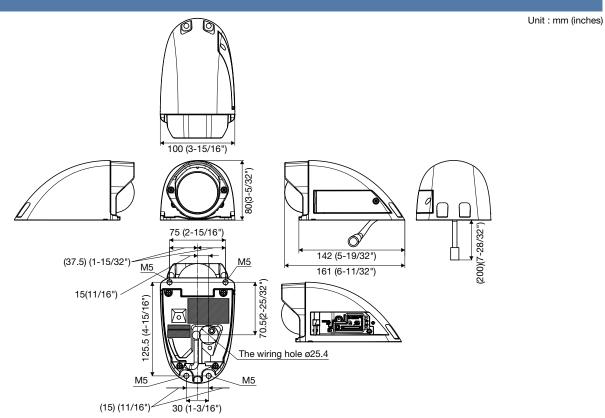
- *3 When using IPv6 for communication, use Microsoft® Windows® 10 or Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7.
- *4 Transmission for 2 streams can be individually set in the same compression method.
- *5 Only when installation work specified in this book is properly performed and appropriate waterproof treatment is performed.
- *6 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver

^{*2} Refer to "Notes on Windows® 7 / Windows® 8 / Windows® 8.1 / Windows® 10" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 10 or Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7.

Part Names and Functions



Appearance



Trademarks and registered trademarks

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
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- 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.

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

