Panasonic BUSINESS

Full HD Rugged Mobile Network Camera WV-SBV131M HD Rugged Mobile Network Camera WV-SBV111M



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 **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 Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic alarm protocol 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

Camera	Image Sensor		1/3 type MOS image sensor
	Scanning Mode		Progressive
			5.28 mm (H) x 3.30 mm (V) {7/32 inches (H) x 1/8 inches (V)}
	Area	WV-SBV111M	4.86 mm (H) x 3.65 mm (V) {3/16 inches (H) x 5/32 inches (V)}
	Minimum	WV-SBV131M	Color: 0.1 lx (F2.2, Maximum shutter : Off (1/30s), AGC : High)
	Illumination		0.007 lx (F2.2, Maximum shutter : Max. 16/30s, AGC : High) ** BW: 0.06 lx (F2.2, Maximum shutter : Off (1/30s), AGC : High)
		MAY CDV411M	0.004 lx (F2.2, Maximum shutter: Max. 16/30s, AGC: High) "1 Color: 0.04 lx (F2.2, Maximum shutter: Off (1/30s), AGC: High)
		WV-SBVIIIW	0.003 lx (F2.2, Maximum shutter : Max. 16/30s, AGC : High) *1
			BW: 0.03 lx (F2.2, Maximum shutter: Off (1/30s), AGC: High) 0.002 lx (F2.2, Maximum shutter: Max. 16/30s, AGC: High) 11
	White Bala		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Light Control Mode Wide dynamic range		ELC / Indoor scene 50 Hz / Indoor scene 60 Hz On / Off
	Adaptive Black Stretch		On / Off (only when Wide dynamic range : Off)
	Fog compensation		On / Off (only when Wide dynamic range : Off)
	High light compensation (HLC) AGC		On / Off (only when Wide dynamic range / Back light compensation (BLC): Off On (High) / On (Mid) / On (Low) / Off
	Maximum shutter		max. 1/10,000 s, max. 1/4,000 s, max. 1/2,000 s, max. 1/1,000 s, max. 1/500 s, max. 1/250 s, max. 1/250 s, max. 1/120 s, max. 1/100 s, max. 2/120 s, max. 2/100 s, max. 3/100 s,
			max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
	Day/Night (Electrical)		Off / Auto
	Digital Noise Reduction		High / Low
	Video Motion Detection Privacy Zone		On / Off, 4 areas available
	VIQS		On / Off (up to 8 zones available) On / Off (Max. 8 locations)
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks), On / Off
	Focus Adjustment		MANUAL
Lens	Focal Leng		1.95 mm {1/16 inches}
	Zoom ratio	ctronic) zoom	Choose from 3 levels of x1, x2, x4 x1
	Zoomiatio		WV-SBV131M : Extra zoom x3 (16 : 9 mode) / x2.5 (4 : 3 mode)
		1487 000 40414	WV-SBV111M : Extra zoom x2
	Angular Field of View	WV-SBV131M	[16:9 mode] Horizontal: 109° Vertical: 73° [4:3 mode] Horizontal: 97° Vertical: 79°
	rieid of view	WV-SBV111M	[16 : 9 mode] Horizontal : 104 ° Vertical : 79
			[4:3 mode] Horizontal: 104 ° Vertical: 85 °
	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 Co	ontrol	Brightness
GUI	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only).
			20 characters camera title available.
	Camera Tit		Up to 20 alphanumeric characters
	Clock Display		Time : 12H/24H Date : 5 formats on the browser
			Summer time (Manual)
	One Shot 0	Capture	A still picture will be displayed on a newly opened window.
	SD Memor	-	Still or motion Images recorded in the SDXC/SDHC/SD
	Data Down		memory card can be downloaded.
	GUI/Setup		English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, Japanese
	Menu Language System Log		Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory
			when the recording format is set to JPEG.) error logs
	Supported OS *2 *3		Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7
	Supported Browser		Windows® Internet Explorer® 11 (32 bit)
	Capportoa	2.01100.	Windows® Internet Explorer® 10 (32 bit)
			Windows® Internet Explorer® 9 (32 bit)
			Windows® Internet Explorer® 8 (32 bit)
Network	Network IF	WV-SBV131M	10Base-T / 100Base-TX, M12 connector (female) •2 mega pixel [16:9]
	Image Resolution	1	H.264 (1)(2) / JPEG (1)(2)(3)
			1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
			H.264 (3)(4) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
			•2 mega pixel [4 : 3]
			H.264 (1)(2) / JPEG (1)(2)(3)
			1,600 x 1,200 / 1,280 x 960 / 800 x 600 / VGA / 400 x 300 /
			QVGA / 160 x 120
			H.264 (3)(4) 1,280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA / 160 x 120
			•3 mega pixel [4:3] * Used by super resolution techniques
			H.264 (1)(2) / JPEG (1)(2)(3)
			2,048 x 1,536 / 1,280 x 960 / 800 x 600 / VGA / 400 x 300 /
			QVGA / 160 x 120
			H.264 (3)(4)
		W//_SR\/11114	1,280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA / 160 x 120 •1.3 mega pixel [16:9]
		*** V-0DV	H.264(1)(2)(3)(4) / JPEG (1)(2)(3)
			1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
			•1.3 mega pixel [4 : 3]
			H.264(1)(2)(3)(4) / JPEG (1)(2)(3)
			1,280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA / 160 x 120
	H.264*4	I	Constant bit rate / Variable bit rate / Framerate priority /
		Mode Frame Rate	Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps

Network	H.264*4	Bit Rate/	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /
INCLINOIR	H.204	Client	4,096 / 6144* / 8,192* / 10,240* / 12,288* / 14,336* / 16,384* /
		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>
		image quanty	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	
		Transmission Type	
	JPEG	Image Quality	
			0.1 fps - 30 fps
		Transmission Type	
	Total Bit Rate		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,
			SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP
	FTP Client		Alarm image transmission, FTP periodic transmission
			(When the FTP transmission is failed, backup on an optional
			SDXC/SDHC/SD memory card is available.)
	No. of Simultaneous Users		Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card(Option)		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
	Cellular Phone Compatibility		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, Panasonic protocol 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)
	Ambient Operating Temperature		-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

^{*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.

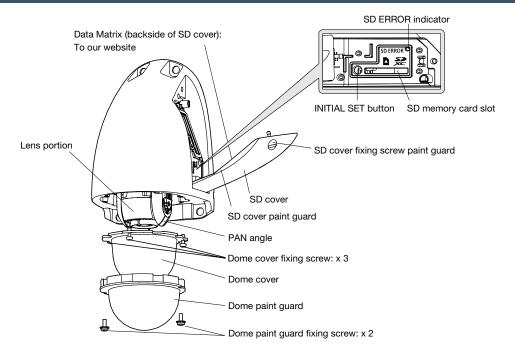
^{*3} When using IPv6 for communication, use Microsoft® Windows® 10 or Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7.

^{*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

Part Names and Functions



Appearance

Unit: mm (inches) 100 (3-15/16") (200)(7-28/32") 75 (2-15/16") 142 (5-19/32") (37.5) (1-15/32") M5 161 (6-11/32") 5(2-25/32 15(11/16") 125.5 (4-15/16") The wiring hole ø25.4 М5 М5 (15) (11/16") 30 (1-3/16")

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