

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 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 ° Vertical: 73 ° WV-SBV111M [4:3 mode] Horizontal: 104 ° Vertical: 85 °
- 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

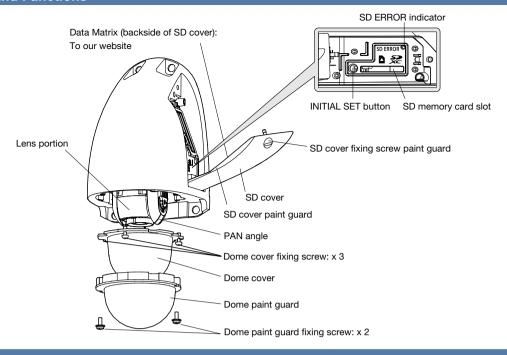
Specifications

| Camera | Image Sen | | 1/3 type MOS image sensor |
|--------------|------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Scanning N | | Progressive 5.28 mm (H) x 3.30 mm (V) {7/32 inches (H) x 1/8 inches (V)} |
| | Area | | 4.86 mm (H) x 3.65 mm (V) {3/16 inches (H) x 5/32 inches (V)} |
| | | | |
| | Minimum Illumination | WV-SBV131M | Color: 0.1 lx (F2.2, Maximum shutter: Off (1/30s), AGC: High) 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) |
| | | WV-SRV111M | 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 OBVITIM | 0.003 lx (F2.2, Maximum shutter : Max. 16/30s, AGC : High)* |
| | | | BW: 0.03 lx (F2.2, Maximum shutter: Off (1/30s), AGC: High) |
| | White Polence | | 0.002 lx (F2.2, Maximum shutter: Max. 16/30s, AGC: High) *1 AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) |
| | White Balance 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 High light compensation (HLC) | | On / Off (only when Wide dynamic range : Off) |
| | AGC | | On / Off (only when Wide dynamic range / Back light compensation (BLC): Of 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. 1/120 s, max. 1/100 s, |
| | | | max. 2/120 s, max. 2/100 s, max. 3/120 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 Video Motion Detection | | High / Low 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 |
| Lanc | Focus Adjustment | | MANUAL 1.95 mm {1/16 inches} |
| Lens | Focal Length Digital (electronic) zoom | | Choose from 3 levels of x1, x2, x4 |
| | Zoom ratio | | x1 |
| | | | WV-SBV131M : Extra zoom x3 (16 : 9 mode) / x2.5 (4 : 3 mode) |
| | | Luny ODV40414 | WV-SBV111M : Extra zoom x2 |
| | Angular Field of View | MA-2BA131M | [16 : 9 mode] Horizontal : 109 ° Vertical : 73 ° [4 : 3 mode] Horizontal : 97 ° Vertical : 79 ° |
| | I lold of view | WV-SBV111M | [16 : 9 mode] Horizontal : 104 ° Vertical : 69 ° |
| | | | [4 : 3 mode] Horizontal : 104 ° Vertical : 85 ° |
| | F Number | | F2.2 |
| A aliceatina | Focus Dist | ance | 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 cameras can be displayed in |
| | | | 4 different Quad screens or 16 split screen (JPEG only). |
| | O TIII | | 20 characters camera title available. |
| | Camera Title Clock Display | | Up to 20 alphanumeric characters Time: 12H/24H |
| | olock Biopiay | | Date : 5 formats on the browser |
| | | | Summer time (Manual) |
| | One Shot Capture | | A still picture will be displayed on a newly opened window. |
| | SD Memory Data Download | | Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. |
| | GUI/Setup | | English, Italian, French, German, Spanish, Portuguese, |
| | Menu Language | | Chinese, Russian, Japanese |
| | System Log | | Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory |
| | Cuppostad | OC *2 *3 | when the recording format is set to JPEG.) error logs Microsoft® Windows® 10, Microsoft® Windows® 8.1, |
| | Supported OS *2 *3 | | Microsoft® Windows® 8, Microsoft® Windows® 7 |
| | Supported Browser | | Windows® Internet Explorer® 11 (32 bit) |
| | | | Windows® Internet Explorer® 10 (32 bit) |
| | | | Windows® Internet Explorer® 9 (32 bit) |
| Network | Network IE | | Windows® Internet Explorer® 8 (32 bit) |
| HELWOIK | Network IF Image | | 10Base-T / 100Base-TX, M12 connector (female) •2 mega pixel [16:9] |
| | Resolution | | 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 |
| | | 1 | H.264 (3)(4) 1,280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA / 160 x 120 |
| | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | | WV-SBV111M | |
| | | WV-SBV111M | •1.3 mega pixel [16 : 9] H.264(1)(2)(3)(4) / JPEG (1)(2)(3) |
| | | WV-SBV111M | •1.3 mega pixel [16 : 9] H.264(1)(2)(3)(4) / JPEG (1)(2)(3) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 |
| | | WV-SBV111M | •1.3 mega pixel [16 : 9] 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] |
| | | WV-SBV111M | •1.3 mega pixel [16 : 9] 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) |
| | H.264/ | | •1.3 mega pixel [16 : 9] 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) |
| | H.264/ MPEG-4*4 | Transmission | •1.3 mega pixel [16 : 9] 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 |

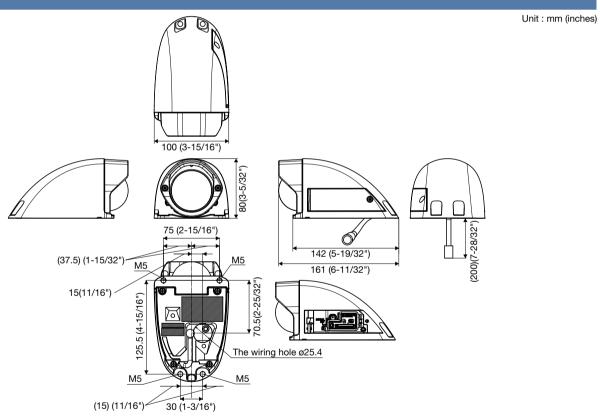
| Network | H.264/ | Bit Rate/ | 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / | | | |
|---------|------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------|--|--|--|
| | MPEG-4*4 | Client | 4,096 / 6144* / 8,192* / 10,240* / 12,288* / 14,336* / 16,384* / | | | |
| | | | 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> | | | |
| | | | 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 | On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) | | | |
| | | Transmission Type | Unicast / Multicast | | | |
| | JPEG | Image Quality | 10 steps | | | |
| | | Refresh Interval | 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 | | | |
| | No. of Simultaneous Users SDXC/SDHC/SD Memory Card(Option) | | Alarm image transmission, FTP periodic transmission | | | |
| | | | (When the FTP transmission is failed, backup on an optional | | | |
| | | | SDXC/SDHC/SD memory card is available.) | | | |
| | | | | | | |
| | | | 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 | | | |
| | Cellular Phone Compatibility | | 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 Ambient Operating Temperature | | 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 | | | |
| | Tamper-resistant donne cover v | | | | | |

- *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



- Trademarks and registered trademarks

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

- 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.

