Panasonic

Pan-tilt Wireless Network Camera
BL-VT164W
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BL-VT164

HD / 1,280 x 720 Pan-tilt Wireless Network Camera (BL-VT164W)
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Key Features

- 720p HD images up to 30 fps
- 1.0 Megapixel high sensitivity CMOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic’s proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 720 image size
- High sensitivity with Day & Night (Electrical) function: 0.9 lx (Color), 0.6 lx (B/W) at F2.8
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- 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
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time) Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.
- ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.
- 1.5x extra zoom at VGA resolution
- 8x 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 2 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.
- 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 / 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
- Pan/tilt and Preset Map Shot function realizes wide range monitoring, (Horizontal angle:139° Vertical angle 76°)
- Easy installation: Easy to adjust directions.
- Interactive communication with audio: By using the audio output connector and the microphone in connector, receiving audio from the cameras on a PC and transmitting audio from the PC to the cameras is available.
- Smartphone monitoring : Direct camera control from smartphone
- Wireless LAN function (IEEE802.11 n/b/g) : Camera images can be monitored over a wireless router.(BL-VT164W)
- WPS (Wi-Fi Protected Setup) function : WPS enables the camera to automatically obtain the connection configuration information and the security configuration information of the wireless router. WPS can be configured by pressing the WIRELESS button (WPS indicator) (PBC method) or entering an 8 digit pin code (Pin code method).(BL-VT164W)
- Built-in Body Heat Sensor (Pyroelectric infrared sensor)
- PC software recording (BB-HNP17: Network Camera Recorder with Viewer Software)

Standard Accessories

- AC Adaptor ........................................ 1 pc.
- Safety Wire ......................................... 1 pc.
- Configure the settings of the camera.......................... 1 pc.
- Installation Guide ..................................... 1 pc.
- CD-ROM*1 ...................................... 1 pc.

*1 The CD-ROM contains the operating instructions and different kinds of tool software programs.
**Specifications**

### Camera
- **Image Sensor**: 1/3 type CMOS Sensor
- **Effective Pixels**: Approx. 1 megapixel
- **Exposure Control**: Auto, Manual
- **Minimum Illumination**: Color: 0.06 lx (F2.8, Auto slow shutter: Max. 160s, Gain (Manual))
  - BW: 0.08 lx (F2.8, Auto slow shutter: Off, Gain (Manual))
- **White Balance**: AWB (Auto), Daylight, Cloudy, Shade, Tungsten, Fluorescent 1, Fluorescent 2
- **Light Control Mode**: Motion detect (ST: 1,5s - 10s, B: 15s - 120s), Schedule (VMD, Body heat sensor)
- **Noise Reduction**: Digital Noise Reduction
- **Image Quality**: 10 steps
- **Video Resolution**: PULL / PUSH
- **Image Format**: JPEG: 1,280 x 720 / 640 x 360 / 320 x 180
- **Compression Method**: H.264: SVGA(800 x 600) / VGA (640 x 480) / QVGA (320 x 240)
- **Transmission Method**: SISO (Single Input/ Single Output) -OFDM, OFDM, DSSS
- **Transmission Type**: UNICAST / MULTICAST
- **Transmission Band**: BL-VT164WE: 2.412 GHz - 2.472 GHz (1 - 13ch)
  - BL-VT164W: 2.412 GHz - 2.472 GHz (1 - 13ch)
- **Input/Output**: DC IN Jack, Lens Cover, Lens, Microphone, Speaker, Antenna, POWER Indicator, DC IN Jack, Lens Cover, Lens, Microphone, Power Switch
- **Power Consumption**: BL-VT164W: max. 4.8 W (120 V AC/ 60 Hz)
  - BL-VT164WE: max. 4.8 W (230 V AC/ 50 Hz)
  - BL-VT164E: max. 3.7 W (230 V AC/ 50 Hz)
  - BL-VT164U: max. 3.7 W (230 V AC/ 50 Hz)
- **Ambient Operating Temperature**: 0 °C ~ 40 °C (32 °F ~ 104 °F)
- **Ambient Operating Humidity**: Less than 90 % (no condensation)

### BL-VT164W
- **Safety/ EMC Standard**: EAC (Russia), C-Tick (Australia), CE (Europe), FCC Part15 ClassB
- **Power Consumption**: max. 4.8 W (120 V AC/ 60 Hz)
- **Supported Browser**: Internet Explorer 10.0 (32 bit), Windows®
- **Supported Protocol**: IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTCP, FTP, SMTP, DHCP, DNS, SNMP, UDH, NTP, HTTP, XML, XMPP, DCCP, DCCP/UDH

### BL-VT164E
- **Safety/ EMC Standard**: EAC (Russia), C-Tick (Australia), CE (Europe), FCC Part15 ClassB
- **Power Consumption**: max. 3.7 W (230 V AC/ 50 Hz)
- **Supported Browser**: Internet Explorer 7.0 (32 bit), Windows Vista®, Internet Explorer 7.0 (32 bit)

### BL-VT164U
- **Safety/ EMC Standard**: EAC (Russia), C-Tick (Australia), CE (Europe), FCC Part15 ClassB
- **Power Consumption**: max. 3.7 W (230 V AC/ 50 Hz)
- **Supported Browser**: Internet Explorer 7.0 (32 bit), Windows®

### BL-VT164
- **Safety/ EMC Standard**: EAC (Russia), C-Tick (Australia), CE (Europe), FCC Part15 ClassB
- **Power Consumption**: max. 3.7 W (230 V AC/ 50 Hz)
- **Supported Browser**: Internet Explorer 7.0 (32 bit), Windows®

### Part Names and Functions

**BL-VT164W (The illustrations are BL-VT164W.)**

- **Microphone**: Built-in microphone for audio input and output
- **Speaker**: Integrated speaker
- **Antenna**: Allows wireless communication
- **Lens Cover**: Protects the lens when not in use
- **DC IN Jack**: For connecting the supplied AC adapter
- **POWER Indicator**: Indicates the power status
- **Camera Title (OSD)**: Up to 20 characters (alphanumeric characters, marks) can be displayed on the camera's display
- **GUI/Setup Menu Language**: English, Japanese, Italian, French, German, Spanish, Chinese, Russian
- **AGC**: Automatic Gain Control
- **Electronic Sensitivity**: UP
- **Adaptive Black Stretch**: ON / OFF
- **PULL / PUSH**: For manual zoom and focus control
- **Electronic Sensitivity**: UP
- **AGC**: Automatic Gain Control
- **Electronic Sensitivity**: UP
- **Adaptive Black Stretch**: ON / OFF
- **PULL / PUSH**: For manual zoom and focus control
- **Image Sensor**: 1/4 type CMOS Sensor
- **Camera**: Input/output of video and audio signals
- **Image Sensor**: 1/3 type CMOS Sensor
- **Effective Pixels**: Approx. 1 megapixel
- **Exposure Control**: Auto, Manual
- **Minimum Illumination**: Color: 0.06 lx (F2.8, Auto slow shutter: Max. 160s, Gain (Manual))
  - BW: 0.08 lx (F2.8, Auto slow shutter: Off, Gain (Manual))
- **White Balance**: AWB (Auto), Daylight, Cloudy, Shade, Tungsten, Fluorescent 1, Fluorescent 2
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