

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



HD / 1,280 x 720 Pan-tilt Wireless Network Camera (BL-VT164W) HD / 1,280 x 720 Pan-tilt Network Camera (BL-VT164)

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

- 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

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

Specifications

DISTRIBUTED BY:

| Camera | Image Sens | or | BL-VT164W E 1/4 type CMOS Sensor | 3L-VT164 |
|----------------------------|---|-------------------------------|--|--|
| Camera | Effective Pixels | | Approx. 1 megapixels | |
| | Scanning Mode | | Progressive | |
| | Scanning Area Minimum Illumination | | 3.89 mm (H) x 2.43 mm (V) {5/32 in Color: 0.9 lx (F2.8, Auto slow shutt | er: Off (1/30s), Gain:On(High)) |
| | | | Color: 0.06 lx (F2.8, Auto slow shutter: Max. 16/30s, Gain:On(High)) ¹¹ BW: 0.6 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High)) | |
| | White Balance Light Control Mode | | BW: 0.04 Ix (F2.8, Auto slow shutter: Off (16/30s), Gain:On(High)) ⁻¹ AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K) Indexness (70,014) (2014) (2014) | |
| | Shutter Speed | | Indoor scene (50 Hz / 60 Hz) / ELC ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s), ELC (1/100 s), ELC (1/120 s), ELC (1/250 s), ELC (1/500 s), ELC (1/1,000 s) | |
| | Adaptive Black Stretch | | ELC (1/2,000 s), ELC (1/4,000 s), ELC (1/10,000 s) ON / OFF | |
| | AGC Electronic Sensitivity UP | | ON (HIGH) / ON (MID) / ON (LOW) / OFF OFF (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) Digital Noise Reduction | | OFF / AUTO HIGH / LOW | |
| | Video Motion Detection Privacy Zone | | ON / OFF (available at each preset) ON / OFF (up to 2 zones available) Up to 20 characters (alphanumaric characters marks). On/Off | |
| Lens | Camera Title (OSD) Focal Length | | Up to 20 characters (alphanumeric characters, marks), On/Off 3.6 mm | |
| | Zoom Ratio Angular Field of View | | Extra zoom: 1.5x (at VGA resolution) Horizontal: 57 °, Vertical: 34 ° | |
| | Maximum Aperture Ratio Focusing Range | | 0.4 m ~ ∞ -41° - +41° | |
| Pan and Tilt | Panning Range Panning Speed | | Manual: Approx. 0.5 °/s - 50 °/s, Preset: Up to approx. 50 °/s | |
| | Tilting Range Tilting Speed | | -32° to +10° Manual: Approx. 0.5 °/s - 50 °/s, Preset: Up to approx. 50 °/s | |
| | Number of Preset Positions PTZ Position Display | | 64 ON / OFF | |
| Wireless (BL-VT164W/ | Self Return Map Shot | | 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 n Preset map-shot 1x1 (Diversity) | |
| | Antenna Transmission method | | SISO (Single Input/ Single Output) -OFDM, OFDM, DSSS | |
| BL-VT164WE / BL-VT164WU | Frequency range (center frequency) / Channel | | BL-VT164W: 2.412 GHz - 2.462 GHz (1 - 11ch) BL-VT164WE: 2.412 GHz - 2.472 GHz (1 - 13ch) BL-VT164WU: 2.412 GHz - 2.472 GHz (1 - 13ch) | _ |
| only) | Data transfer rate: "2 | | BL-V1104WU; 2,412 GH2 - 2,472 GH2 (1 - 1301) IEEE802.11n: 6,5 -72.2 Mbps IEEE802.11g; 6 - 54 Mbps IEEE802.11b; 1 - 11 Mbps | _ |
| | Access method | | Infrastructure mode | |
| | Authentication method Security: "3 | | Open System WPA/WPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) | - |
| | WPS | | PBC method (push button method), PIN method (PIN code method) | - |
| browser GUI | Camera Control Display Mode | | Brightness, AUX ON / OFF Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua | |
| | Zoom | | screens or 16 split screen (JPEG only). 20 characters camera title available extra zoom(1x-1.5x) and the electronic zoom (higher zoom factors, up to 12x). | |
| | Camera Title Clock Display | | Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual) | |
| | Alarm Control One Shot Capture | | Reset A still picture will be displayed on a newly opened window. | |
| | Audio | | Mic Input: ON / OFF Volume adjustment: Low / Middle / High, Audio Output: ON / OFF Volume adjustment: Low / Middle / High | |
| | GUI/Setup Menu Language System Log | | English, Japanese, Italian, French, German, Spanish, Chinese, Russian Up to 100 (Internal), error logs | |
| | Supported OS 14 15 Supported Browser | | Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows XP SI Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) | |
| Network | Network IF | | Microsoft [®] Internet Explorer [®] 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector (female) | |
| | Image Resolution *6 | | H.264: SVGA(800 x 600) / VGA (640 x 48 JPEG: SVGA(800 x 600) / VGA (640 x 48 | 0) / QVGA (320 x 240), up to 30 fps 0) / QVGA (320 x 240), up to 30 fps |
| | H.264 | | H.264: 1,280 x 720 / 640 x 360 / 320 ; JPEG: 1,280 x 720 / 640 x 360 / 320 ; | (180, up to 30 fps |
| | H.204 | Frame Rate Bit Rate/Client | Constant bitrate / Frame rate / Bes 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 64 / 128 / 256 / 384 / 512 / 768 / 1 |) fps |
| | | | 4,096 / 8,192 kbps LOW / NORMAL / FINE | ,02471,33072,04073,0727 |
| | | Refresh Interval | 1 fps ~ 30 fps UNICAST / MULTICAST | |
| | JPEG | Image Quality | | |
| | Transmission Type | | PULL / PUSH | |
| | Audio Compression | | G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps QEE / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) | |
| | Audio Mode Authentication for Audio | | OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users | |
| | Total Bit Rate Supported Protocol | | 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARF IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS | |
| | FTP Client | | DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission | |
| | No. of Simultaneous Users Cellular Phone Compatibility | | Up to 14 users (Depends on network conditions) JPEG image, panning/tilting/zoom/Privacy control, AUX control (by access level) | |
| Alarm | Mobile Terminal Compatibility ^{*7} Alarm Source | | iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android™ mobile terminals 3x Terminal inputs, VMD, Command alarm, Body heat sensor | |
| | Alarm Actions | | E-mail notification, Indication on browser,FTP image transfer, Panasonic protocol output | |
| Body heat | Schedule Sensor detection method | | VMD, Body heat sensor pyroelectric infrared sensor | |
| sensor | Sensitivity se Sensor detect | ttings | Off/ High/ Normal/ Low/ Extra low About 5 m (with the temperature at 20 |)°C and Normal sensitivity) |
| Innut/ Outnut | Microphone/Line Input | | Horizontal: 28°, Vertical: 71° Internal microphone | |
| Input/ Output | Audio Output External I/O Terminals | | internal microphone | |

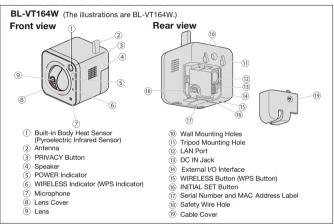
| | | BL-VT164W | BL-VT164 |
|---------|-------------------------------|---|---|
| General | | BL-VT164W: | BL-VT164: |
| | | <safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2</safety> | <safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2</safety> |
| | | <emc> FCC Part15 ClassB</emc> | <emc>FCC Part15 ClassB, ICES-003 ClassB</emc> |
| | Safety/ | <wireless> FCC Part15C</wireless> | |
| | EMC Standard | BL-VT164WE / BL-VT164WU: | BL-VT164E / BL-VT164U: |
| | | <safety>IEC60950-1 Ed.2</safety> | <safety> IEC60950-1 Ed.2</safety> |
| | | <emc> EN55022 ClassB, EN55024</emc> | <emc> EN55022 ClassB, EN55024</emc> |
| | | <wireless> EN300 328</wireless> | |
| | | 9 V DC (Use only with Panasonic AC adapter) | 9 V DC (Use only with Panasonic AC adapter) |
| | Power Source and | BL-VT164W: max. 4.8 W (120 V AC/ 60 Hz) | BL-VT164: max. 3.7 W (120 V AC/ 60 Hz) |
| | Power Consumption | BL-VT164WE: max. 4.8 W (230 V AC/ 50 Hz) | BL-VT164E: max. 3.7 W (230 V AC/ 50 Hz) |
| | | BL-VT164WU: max. 4.8 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) | |
| | Dimensions | 74 mm (W) x 74 mm (H) x 91 mm (D) {2-29/32 inches (W) x 2-29/32 inches (H) x 3-19/32 inches (D)} (excluding projection) | |
| | Mass (approx.) | Approx. 230 g {0.5071 lbs} | Approx. 220 g {0.485 lbs} |
| | Finish | Main body: ABS resin, white Dome section: Clear polycarbonate resin | |

*1 Converted value *2 The actual line speed may be different depending on the network environment and the wireless devices connected.

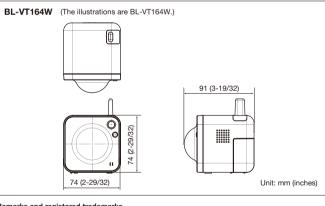
devices connected.
*3 Depending on the wireless router (wireless access point) used, connections may not possible between the camera and the wireless router.
When connecting with 802.11n, select WPA-PSK (AES) or WPA2-PSK (AES) for security.
*4 Refer to 'Notes on Windows Vista'' / Windows' 7 / Windows' 8' on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows' 7 or Microsoft® Windows' 8 or Microsoft® Windows' 8 or Microsoft® Windows' 8 or Microsoft® Windows' 7 or Microsoft® Windows' 8 or Microsoft® Windows'

(http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



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Important

Safety Precaution: Carefully read the operating instructions and installation manual before using this product. Panasonic cannot be 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.
These products may be subject to export control regulations.



http://security.panasonic.com

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