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



BL-VT164W 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 under 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
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- 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.(WV-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).(WV-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

			BL-VT164W	BL-VT164
Camera	Image Sensor		1/4 type CMOS Sensor	
	Effective Pixels		Approx. 1 megapixels	
	Scanning Mode		Progressive	
	Scanning Area		3.89 mm (H) x 2.43 mm (V) {5/32 inches (H) × 3/32 inches (V)}	
	Minimum Illumination		Color: 0.9 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High)) Color: 0.06 lx (F2.8, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1 BW: 0.6 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High)) BW: 0.04 lx (F2.8, Auto slow shutter: Off (16/30s), Gain:On(High)) *1	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
	Light Control Mode		Indoor scene (50 Hz / 60 Hz) / ELC	
	Shutter Speed		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), ELC (1/2,000 s), ELC (1/4,000 s), ELC (1/10,000 s)	
	Adaptive Black Stretch		ON / OFF	
	AGC		ON (HIGH) / ON (MID) / ON (LOW) / OFF	
	Electronic Sensitivity UP		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)		OFF / AUTO	
	Digital Noise Reduction		HIGH / LOW	
	Video Motion Detection		ON / OFF (available at each preset)	
	Privacy Zone		ON / OFF (up to 2 zones available)	
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks) , On/Off	
Lens	Focal Length		3.6 mm	
	Zoom Ratio		Extra zoom: 1.5x (at VGA resolution)	
	Angular Field of View		Horizontal: 57 °, Vertical: 34 °	
	Maximum Aperture Ratio		1 : 2.8	
	Focusing Range		0.4 m ~ ∞	
Pan and Tilt	Panning Range		-41°- +41°	
	Panning Speed		Manual: Approx. 0.5 °/s - 50 °/s, Preset: Up to approx. 50 °/s	
	Tilting Range		-32° to +10°	
	Tilting Speed		Manual: Approx. 0.5 °/s - 50 °/s, Preset: Up to approx. 50 °/s	
	Number of Preset Positions		64	
	PTZ Position Display		ON / OFF	
	Self Return		10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min	
	Map Shot		Preset map-shot	
Wireless (BL-VT164W / BL-VT164WE / BL-VT164WU only)	Antena		1x1 (Diversity)	—
	Transmission method		SISO (Single Input/ Single Output) -OFDM, OFDM,DSSS	—
	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)	—
	Data transfer rate: *2		IEEE802.11n: 6.5 - 72.2 Mbps IEEE802.11g: 6 - 54 Mbps IEEE802.11b: 1 - 11 Mbps	—
	Access method		Infrastructure mode	—
	Authentication method		Open System	—
	Security: *3		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		Brightness, AUX ON / OFF	
	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.	
	Zoom		extra zoom(1x-1.5x) and the electronic zoom (higher zoom factors, up to 12x).	
	Camera Title		Up to 20 alphanumeric characters	
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)	
	Alarm Control		Reset	
	One Shot Capture		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		English, Japanese, Italian, French, German, Spanish, Chinese, Russian	
	System Log		Up to 100 (Internal), error logs	
	Supported OS *4 *5		Microsoft® Windows® 7, Microsoft® Windows Vista®,Microsoft® Windows® XP SP3	
	Supported Browser		Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3	
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector (female)	
	Image Resolution *6	Aspect ratio: [4 : 3]	H.264: SVGA(800 x 600) / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: SVGA(800 x 600) / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps	
		Aspect ratio: [16 : 9]	H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
	H.264	Transmission Mode	Constant bitrate / Frame rate / Best effort	
		Frame Rate	1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps	
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 kbps	
		Image Quality	LOW / NORMAL / FINE	
		Refresh Interval	1 fps ~ 30 fps	
		Transmission Type	UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
		Refresh Interval	0.1 fps ~ 30 fps	
		Transmission Type	PULL / PUSH	
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	Audio Mode		OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Authentication for Audio		Level 1 only / Level 2 higher / All users	
	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	
	No. of Simultaneous Users		Up to 14 users (Depends on network conditions)	
	Face Detection		ON / OFF (with XML notification)	
	Cellular Phone Compatibility		JPEG image, panning/tilting/zoom/Privacy control, AUX control (by access level)	
	Mobile Terminal Compatibilty*7		iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android™ mobile terminals	
Alarm	Alarm Source		VMD, Command alarm	
	Alarm Actions		E-mail notification, Indication on browser,FTP image transfer, Panasonic protocol output	
	Schedule		VMD	
Body heat sensor	Sensor detection method		pyroelectric infrared sensor	
	Sensitivity settings		Off/ High/ Normal/ Low/ Extra low	
	Sensor detection range		About 5 m (with the temperature at 20°C and Normal sensitivity) Horizontal: 28°, Vertical: 71°	
Input/ Output	Microphone/Line Input		Internal microphone	
	Audio Output		Internal speaker	
	External I/O Terminals		ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT, GND	

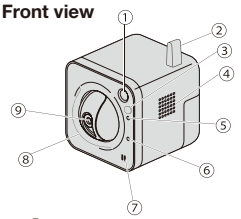
		BL-VT164W	BL-VT164
General	Safety/ EMC Standard	WV-VT164W: <Safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <EMC> FCC Part15 ClassB <Wireless> FCC Part15C	WV-VT164: <Safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <EMC>FCC Part15 ClassB, ICES-003 ClassB
		WV-VT164WE / WV-VT164WU: <Safety>IEC60950-1 Ed.2 <EMC> EN55022 ClassB, EN55024 <Wireless> EN300 328	WV-VT164E / WV-VT164U: <Safety> IEC60950-1 Ed.2 <EMC> EN55022 ClassB, EN55024
	Power Source and Power Consumption	9 V DC (Use only with Panasonic AC adapter) BL-VT164W: max. 4.8 W (120 V AC/ 60 Hz) BL-VT164WE: max. 4.8 W (230 V AC/ 50 Hz) BL-VT164WU: max. 4.8 W (230 V AC/ 50 Hz)	9 V DC (Use only with Panasonic AC adapter) BL-VT164: max. 3.7 W (120 V AC/ 60 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)	
	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.
*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" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 7 or Microsoft® Windows Vista®.
*5 When using IPv6 for communication, use Microsoft® Windows® 7 or Microsoft® Windows Vista®.
*6 Transmission for 2 streams can be individually set in the same compression method.
*7 For further information about compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.html).

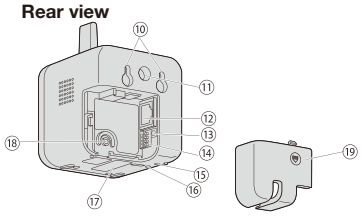
Part Names and Functions

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

Front view



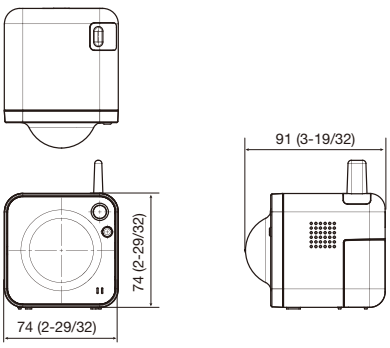
Rear view



① Built-in Body Heat Sensor (Pyroelectric Infrared Sensor)
② Antenna
③ PRIVACY Button
④ Speaker
⑤ POWER Indicator
⑥ WIRELESS Indicator (WPS Indicator)
⑦ Microphone
⑧ Lens Cover
⑨ Lens
⑩ Wall Mounting Holes
⑪ Tripod Mounting Hole
⑫ LAN Port
⑬ DC IN Jack
⑭ External I/O Interface
⑮ WIRELESS Button (WPS Button)
⑯ INITIAL SET Button
⑰ Serial Number and MAC Address Label
⑱ Safety Wire Hole
⑲ Cable Cover

Appearance

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



Unit: mm (inches)

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Important
– Safety Precaution: carefully read the operating instructions and installation manual before using this product.
– Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

• Masses and dimensions are approximate.
• Specifications are subject to change without notice.
• These products may be subject to export control regulations.

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