

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	

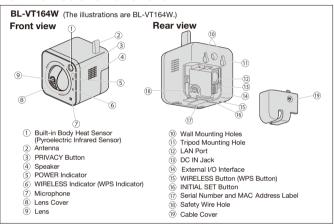
		BL-VT164W	BL-VT164
General		BL-VT164W:	BL-VT164:
		<safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2</safety>	<safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2</safety>
		<emc> FCC Part15 ClassB</emc>	<emc>FCC Part15 ClassB, ICES-003 ClassB</emc>
	Safety/	<wireless> FCC Part15C</wireless>	
	EMC Standard	BL-VT164WE / 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.

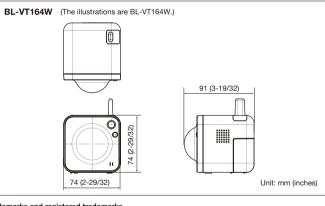
devices connected.
*3 Depending on the wireless router (wireless access point) used, connections may not possible between the camera and the wireless router.
When connecting with 802.11n, select WPA-PSK (AES) or WPA2-PSK (AES) for security.
*4 Refer to 'Notes on Windows Vista'' / Windows' 7 / Windows' 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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