

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

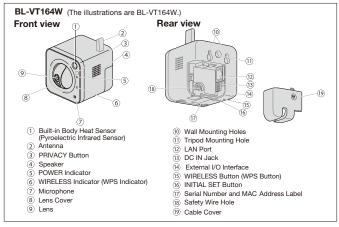
# Specifications

			BL-VT164W	BL-VT164	
Camera	Image Senso		1/4 type CMOS Sensor		
	Effective Pix	els	Approx. 1 megapixels	·	
	Scanning Mo		Progressive		
	Scanning Ar	ea	3.89 mm (H) x 2.43 mm (V) {5/32		
	Minimum IIIu	mination	Color: 0.9 lx (F2.8, Auto slow shu		
			Color: 0.06 lx (F2.8, Auto slow shutter: Max. 16/30s, Gain:On(High)) 18W: 0.6 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High))		
	White Balance		BW: 0.6 ix (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High))		
	Light Control		Indoor scene (50 Hz / 60 Hz) / ELC		
	Shutter Spee		ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s),		
	Griditor opeca		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 AGC		ON / OFF 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 OFF / AUTO		
	Day & Night (electrical) 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 Focusing Range		1 : 2.8 0.4 m ~ ∞		
Pan and Tilt	Panning Rang	nge e	0.4 m ~ ∞ -41°- +41°		
1111	Panning Spe			Preset: Up to approx. 50 °/s	
	Tilting Range		Manual: Approx. 0.5 °/s - 50 °/s, Preset: Up to approx. 50 °/s -32° to +10°		
	Tilting Speed	t	Manual: Approx. 0.5 °/s - 50 °/s,	Preset: Up to approx. 50 °/s	
	Number of Pre	eset 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	
M.C 1	Map Shot		Preset map-shot		
Wireless (BL-VT164W /	Antena	n moth'	1x1 (Diversity) SISO (Single Input/ Single Output) - OFDM, OFDM, DSSS	<del></del>	
BL-VT164WF /	Transmission Frequency ra		SISO (Single Input/ Single Output) - OFDM, OFDM, DSSS BL-VT164W: 2.412 GHz - 2.462 GHz (1 - 11ch)	_	
BL-VT164WU			BL-VT164WE: 2.412 GHz - 2.472 GHz (1 - 13ch)	_	
only)	(center frequency) / Channel		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 One Shot Capture		Reset		
	Audio		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 C	S *4 *5	Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Supported Br	owser	Windows® Internet Explorer® 9.0 (32 bit),		
			Windows® Internet Explorer® 7.0 (32 bit),		
Network	Network IF		10Base-T / 100Base-TX, RJ-45 o		
	Image Resolution *6	Aspect ratio: [4:3]	H.264: SVGA(800 x 600) / VGA (640 x		
		A	JPEG: SVGA(800 x 600) / VGA (640 x		
		Aspect ratio: [16:9]	H.264: 1,280 x 720 / 640 x 360 / 32		
	H.264	Transmission Mode	JPEG: 1,280 x 720 / 640 x 360 / 320 Constant bitrate / Frame rate / B		
	11.204		1/3/5/7.5/10/12/15/20/		
			64 / 128 / 256 / 384 / 512 / 768 /		
			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		
			PULL / PUSH		
	Audio Comp	ression	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 IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP		
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, HTP, FIP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, (CMP, 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		DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP 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 Compatibility <sup>7</sup>		IPEG image, panning/tilting/zoom/Privacy control, AUX control (by access level) iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals		
Alarm	Alarm Source		VMD, Command alarm	, , , and one to millions	
	Alarm Source Alarm Actions		E-mail notification, Indication on b	rowser,FTP image transfer.	
		-	Panasonic protocol output		
	Schodula				
	Schedule VMD				
Body heat		tion method			
	Sensor detec		pyroelectric infrared sensor		
	Sensor detec Sensitivity se	tings	pyroelectric infrared sensor Off/ High/ Normal/ Low/ Extra low	20°C and Normal sensitivity)	
Body heat sensor	Sensor detec	tings	pyroelectric infrared sensor Off/ High/ Normal/ Low/ Extra low About 5 m (with the temperature at	20°C and Normal sensitivity)	
	Sensor detec Sensitivity se	tings tion range	pyroelectric infrared sensor Off/ High/ Normal/ Low/ Extra low	20°C and Normal sensitivity)	

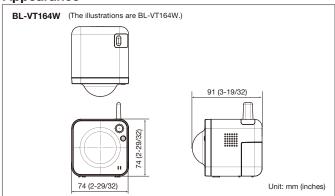
		BL-VT164W	BL-VT164
General		WV-VT164W:	WV-VT164:
		<safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2</safety>	<safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2</safety>
		<emc> FCC Part15 ClassB</emc>	<emc>FCC Part15 ClassB, ICES-003 ClassB</emc>
	Safety/	<wireless> FCC Part15C</wireless>	
	EMC Standard	WV-VT164WE / WV-VT164WU:	WV-VT164E / WV-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	Less than 90 % (no condensation) 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)	
	Ambient Operating Humidity		
	Dimensions		
	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 comman and the wireless results access point).
- \*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. A 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**



# **Appearance**



- Trademarks and registered trademarks

   Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.

   iPad, iPhone and iPod touch are registered trademarks of Apple Inc.

   UniPhier is a registered trademark of Panasonic Corporation.

   "Super Dynamic", "SDII", "SDII", "SDIS", "SDSLink" logos are trademarks or registered trademarks of Panasonic Corporation.

   ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
- 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.

**DISTRIBUTED BY:** 

External I/O Terminals



ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT, GND

http://panasonic.net/security/

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