Panasonic

Wireless Network Camera BL-VP104W

Network Camera
BL-VP104



HD / 1,280 x 720 H.264 Wireless Network Camera (BL-VP104W) HD / 1,280 x 720 H.264 Network Camera (BL-VP104)

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
- 4x 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
- 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-VP104W)
- 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-VP104W)
- PC software recording (BB-HNP17: Network Camera Recorder with Viewer Software)

Standard Accessories

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

Specifications

Camera	Image Sensor		BL-VP104W BL-VP104 1/4 type CMOS Sensor		
Jamera	Image Sensor Effective Pixels				
			Approx. 1 megapixel		
	Scanning M		Progressive		
	Scanning Ar	ea	3.89 mm (H) x 2.43 mm (V) {5/32 inches (H) x 3/32 inches (V)}		
	Minimum IIIu	umination	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)) ¹¹		
	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),		
	Onution ope	Ju			
			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 (4 areas available)		
	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 °		
			1:2.8		
	Maximum Aperture Ratio				
	Focusing Range		0.4 m ~ ∞		
Wireless	Antenna		1x1 (Diversity)		
(BL-VP104W/	Transmissio	n method	SISO (Single Input/ Single Output) -OFDM, OFDM, DSSS		
BL-VP104WE/			BL-VP104W: 2.412 GHz - 2.462 GHz (1 - 11ch)		
BL-VP104WU			BL-VP104WE: 2.412 GHz - 2.472 GHz (1 - 13ch)		
		y/r			
only)	Channel		BL-VP104WU: 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		
	Authenticati	on method	Open System		
	Security: *3		WPA/WPA2-PSK (TKIP/AES)		
	1		WEP (64 bit/128 bit)		
	WPS		PBC method (push button method), PIN method (PIN code method		
D					
Browser GUI	Camera Control		Brightness		
	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 6x).		
	Camera Title		Up to 20 alphanumeric characters		
	Carriera Title				
	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.		
			English, Italian, French, German, Spanish, Russian, Chinese, Japanese		
	System Log		Up to 100 (Internal), error logs		
	System Log				
	Supported OS *4*5		Microsoft® Windows® 8, Microsoft® Windows® 7,		
			Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Supported Browser		Windows® Internet Explorer® 10.0 (32 bit),		
			Windows® Internet Explorer® 9.0 (32 bit),		
	1		Windows Internet Explorer 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),		
	1		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	Aspect ratio:	H.264: SVGA(800 x 600) / VGA (640 x 480) / QVGA (320 x 240), up to 30 fp		
	Resolution'6				
	i resolution "	[4:3]	JPEG: SVGA(800 x 600)/ VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
	1	Aspect ratio:	H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps		
		[16:9]	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		
	1		1/3/5/7.5/10/12/15/20/30 fps		
	1		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /		
	1	Dit nate/Ollent			
	1		4,096 / 8,192 kbps		
	1		LOW / NORMAL / FINE		
	1	Refresh Interval	1 fps ~ 30 fps		
	1		UNICAST / MULTICAST		
	JPEG	Image Quality	10 etans		
	JPEG				
	1	Hetresh Interval	0.1 fps ~ 30 fps		
	1	Transmission Type	PULL / PUSH		
	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, ARI		
			Alarm image transmission FTP periodic transmission		
	FTP Client		Alarm image transmission, ETP periodic transmission		
	FTP Client		Alarm image transmission, FTP periodic transmission		
	No. of Simult		Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions)		
	No. of Simult Cellular Phone	Compatibility	Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) JPEG image		
	No. of Simult Cellular Phone	Compatibility	Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) JPEG image		
Δlarm	No. of Simult Cellular Phone Mobile Termina	e Compatibility al Compatibility ⁷	Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) JPEG image iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals		
Alarm	No. of Simult Cellular Phone Mobile Termina Alarm Source	e Compatibility al Compatibility ⁷ e	Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) JPEG image IPad, iPhone, IPod touch (iOS 4.2.1 or later), Android™ mobile terminals VMD, Command alarm		
Alarm	No. of Simult Cellular Phone Mobile Termina	e Compatibility al Compatibility ⁷ e	Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) JPEG image IPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals VMD. Command alarm E-mail notification, Indication on browser, FTP image transfer,		
Alarm	No. of Simult Cellular Phone Mobile Termina Alarm Source	e Compatibility al Compatibility ⁷ e	Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) JPEG image IPad, iPhone, IPod touch (iOS 4.2.1 or later), Android" mobile terminals VMD, Command alarm		

		BL-VP104W	BL-VP104
General	Safety/	BL-VP104W:	BL-VP104:
	EMC Standard	<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>
		<wireless> FCC Part15C</wireless>	
		BL-VP104WE / BL-VP104WU:	BL-VP104E / BL-VP104U:
		<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>	
	Power Source and	6.5 V DC (Use only with Panasonic AC adapter)	6.5 V DC (Use only with Panasonic AC adapter)
	Power Consumption	BL-VP104W: max 3.5W (120 V AC/ 60 Hz)	BL-VP104: max 2.0W (120 V AC/ 60 Hz)
		BL-VP104WE: max. 3.5 W (230 V AC/ 50 Hz)	BL-VP104E: max. 2.0 W (230 V AC/ 50 Hz)
		BL-VP104WU: max. 3.5 W (230 V AC/ 50 Hz)	BL-VP104U: max. 2.0 W (230 V AC/ 50 Hz)
	Ambient Operating Temperature	Less than 90 % (no condensation) 70 mm (W) x 70 mm (H) x 25.4 mm (D) {2-3/4 inches (W) x 2-3/4 inches (H) x 1 inch (D)} (excluding projection)	
	Ambient Operating Humidity		
	Dimensions		
	Mass (approx.)	Approx. 80 g {0.18 lbs}	Approx. 75 g {0.17 lbs}
	Finish	Main body: ABS resin, white	

- | Finish | Main body: ABS resin, white

 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.

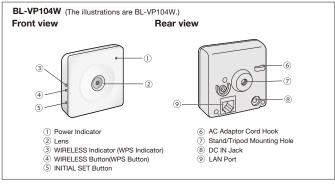
 4 Refer to "Notes on Windows Vista" / Windows* 7 / Windows* 8" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft* Windows* 8 or Microsoft* Windows* 7 or Microsoft* Windows Vista*.

 5 When using IPv6 for communication, use Microsoft* Windows* 8 or Microsoft* Windows* 7 or Microsoft* Windows Vista*.

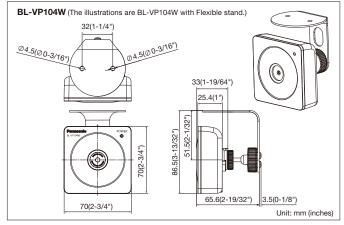
 6 Transmission for 2 streams can be individually set in the same compression method.

 7 For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



- Trademarks and registered trademarks

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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.

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