BL-VP101

Network Camera

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- 0.32 Megapixel high sensitivity CMOS Sensor
- Full frame (Up to 30 fps) transmission at VGA(640 x 480) image size
- H.264 and JPEG dual stream output
- High sensitivity with Day & Night (Electrical) function: 0.9 lx (Color),0.6 lx (B/W) at F2.8
- 4x digital zoom controlled by browser
- Smart phone Monitoring

Features

- 0.32 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 VGA (640 x 480) 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 8x) / 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.

- 4x 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
- Smartphone monitoring : Direct camera control from smartphone
- PC software recording (BB-HNP17: Network Camera Recorder with Viewer Software)

Specifications:

Camera	
Image Sensor	1/5 type CMOS Sensor
Effective Pixels	Approx. 0.32 megapixels
Scanning Mode	Progressive
Scanning Area	2.69 mm (H) x 2.02 mm (V) {1/8 inches (H) x 1/16 inches (V)}
Minimum Illumination	Color: 0.9 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High)) Color: 0.11 lx (F2.8, Auto slow shutter: Max. 8/30s, Gain:On(High)) [*1] BW: 0.6 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High)) BW: 0.08 lx (F2.8, Auto slow shutter: Off (8/30s), 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 (1/8,000 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. 3/30 s, Max. 4/30 s, Max. 8/30 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	2.7 mm
Angular Field of View	Horizontal: 53 , Vertical: 40.5
Maximum Aperture Ratio	1 : 2.8
Focusing Range	0.5 m ~
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	electronic zoom (up to 4x).
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.
GUI/Setup Menu Language	English / Italian / French / German / Spanish / Russian / Chinese / Japanese
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: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps
Aspect ratio: [16 : 9]	H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 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 / 4096
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
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
Mobile Terminal Compatibilty [7]	iPad, iPhone, iPod touch (iOS 4.2.1 or later) , AndroidTM mobile terminals
Alarm	
Alarm Source	VMD, Command alarm
Alarm Actions	E-mail notification, Indication on browser, FTP image transfer, Panasonic protocol output
Schedule	VMD
General	
Safety/ EMC Standard	BL-VP101: <Safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <EMC> FCC Part15 ClassB, ICES-003 ClassB BL-VP101E / BL-VP101U: <Safety> IEC60950-1 Ed.2 <EMC> EN55022 ClassB, EN55024
Power Source and	6.5 V DC (Use only with Panasonic AC adapter)

Power Consumption	BL-VP101/VP101E/VP101U: max. 1.8 W
Ambient Operating Temperature	0 C ~ 40 C (32 F ~ 104 F)
Ambient Operating Humidity	Less than 90 % (no condensation)
Dimensions	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)
Mass (approx.)	Approx. 75 g {0.17 lbs}
Finish	Main body: ABS resin, white