Panasonic

Network Camera BL-VP101



VGA / 640 x 480 H.264 Network Camera

Key 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
- 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)

Standard Accessories

Flexible Stand	
*1 The CD-ROM contains the operating instructions and dif	ferent kinds of tool software programs.

Specifications

	Image Senso	r	1/5 type CMOS Sensor
Camera	Effective Pixe		Approx. 0.32 megapixels
	Scanning Mo		Progressive
	Scanning Are		2.69 mm (H) x 2.02 mm (V) {1/8 inches (H) x 1/16 inches (V)}
	Minimum Illui		Color: 0.9 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High))
	I IVIII III III III III III III III III	IIIIIadioii	Color: 0.11 lx (F2.8, Auto slow shutter: Max. 8/30s, Gain:On(High))
			BW: 0.6 lx (F2.8, Auto slow shutter: Off (1/30s), Gain:On(High))
	White Delege		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
		JK OLICIOII	
	AGC Electronic Sensitivity UP		ON (HIGH) / ON (MID) / ON (LOW) / OFF
			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 Privacy Zone		ON / OFF (4 areas available)
			ON / OFF (up to 2 zones available)
			Up to 20 characters (alphanumeric characters, marks) , On/Off
	Camera Title (OSD)		
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 GLII	Camera Cont		Brightness
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad
	pispidy ivioue		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	V	Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua
	Alarm Contro	ol	Reset
	One Shot Ca		A still picture will be displayed on a newly opened window.
		enu Language	English / Italian / French / German / Spanish / Russian / Chinese / Japanese
		ina Language	
	System Log	0.445	Up to 100 (Internal), error logs
	Supported O		Microsoft® Windows® 8, Microsoft® Windows® 7,
			Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
	Supported Bi	rowser	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),
			Microsoft® Internet Explorer® 6.0 SP3
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector (female)
	Image	Aspect ratio:	H.264: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps
	Resolution *6	[4:3]	JPEG: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps
			H.264: 640 x 360 / 320 x 180, up to 30 fps
		[16:9]	
			JPEG: 640 x 360 / 320 x 180, up to 30 fps
	H.264	Transmission Mode	Constant bitrate / Frame rate / Best effort
			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
			16006
		Refrech Interval I	
		Refresh Interval	TIPS ~ 30 TPS
	IDEC	Transmission Type	UNICAST / MULTICAST
	JPEG	Transmission Type Image Quality	UNICAST / MULTICAST 10 steps
	JPEG	Transmission Type Image Quality Refresh Interval	UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps
	JPEG	Transmission Type Image Quality Refresh Interval	UNICAST / MULTICAST 10 steps
		Transmission Type Image Quality Refresh Interval Transmission Type	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH
	JPEG Supported Pr	Transmission Type Image Quality Refresh Interval Transmission Type	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH IPv6: TCPI/P, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,
		Transmission Type Image Quality Refresh Interval Transmission Type	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP
		Transmission Type Image Quality Refresh Interval Transmission Type	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 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,
	Supported Pr	Transmission Type Image Quality Refresh Interval Transmission Type	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH IPve: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, 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, ARI
	Supported Pr	Transmission Type Image Quality Refresh Interval Transmission Type rotocol	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 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
	Supported Preference P	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH PIVE: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, (CMP, ARP) IPV4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DNS, NTP, SNMP, UP-IP, IGMP, ICMP, ARI Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions)
	Supported Preference P	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH PIVE: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, (CMP, ARP) IPV4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DNS, NTP, SNMP, UP-IP, IGMP, ICMP, ARI Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions)
	Supported Pr FTP Client No. of Simulta Cellular Phone	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users e Compatibility	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 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, DNS, NTP, SNMP, UP-IP, IGMP, ICMP, ARI Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) JPEG image
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Alarm	Supported Properties of Simultation of Simultation Mobile Termina Alarm Source	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users to Compatibility Tompatibility Tompatibility Tompatibility	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH PIVE: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, ICMP, ARP PV4: 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 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	Supported Pr FTP Client No. of Simulta Cellular Phone Mobile Termina	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users to Compatibility Tompatibility Tompatibility Tompatibility	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 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, DDF/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DNS, NTP, SNMP, UPnP, IGMP, ICMP, ARI 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	Supported Pr FTP Client No. of Simulta Cellular Phone Mobile Termina Alarm Source Alarm Actions	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users to Compatibility Tompatibility Tompatibility Tompatibility	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH IPv6: TCPI/P, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, (CMP, ARP) IPv4: TCPI/P, 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 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, Panassonic protocol output
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	Supported Print No. of Simulta Cellular Phone Mobile Termina Alarm Source Alarm Action: Schedule Safety/	Transinsion Type Image Quality Refresh Interval Transmission Type rotocol aneous Users e Compatibility Compatibility S	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH IPv6: TCPI/P, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, (CMP, ARP) IPv4: TCPI/P, 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 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, Panasonic protocol output VMD BIL-VP101: <safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <emcs- bi-v-p1011:<="" bi-vp101e="" classb="" classb,="" fcc="" ices-003="" part15="" td="" =""></emcs-></safety>
	Supported Print No. of Simulta Cellular Phone Mobile Termina Alarm Source Alarm Action: Schedule Safety/	Transinsion Type Image Quality Refresh Interval Transmission Type rotocol aneous Users e Compatibility Compatibility S	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH PIVE: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, (CMP, ARP) PV4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UP-nP, [GMP, ICMP, ARI 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, Panasonic protocol output VMD BL-VP101: Safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <emc> FCC Part15 ClassB, ICES-003 ClassB BL-VP101E/ SBL-VP101U: Safety> IEC60950-1 Ed.2.</emc>
	Supported Print Pr	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users Compatibility I Compatibility? S S	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH IPv6: TCPIP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, ICMP, ARP IPv4: TCPIP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARR 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, Panasonic protocol output VMD BL-VP101: safety UL60950-1 Ed.2 sem EMC> FCC Part15 ClassB, ICES-003 ClassB BL-VP101F / BL-VP101U: safety IEC60950-1 Ed.2 safety IEC60950-1 Ed.2 safety IEC60950-1 Ed.2 safety IEC80950-1 Ed.2 safety IEC80950-1 Ed.2 safety IEC80950-1 Ed.2 safety IEC80950-1 Ed.2
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	Supported Print Supported Print Print Supported Print	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users e Compatibility? e s ard	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH PIVE: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnIP, IGMP, ICMP, AR 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, Panasonic protocol output VMD BL-VP101: Safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <emcs-fcc bi-vp101e,="" bil-vp101u:="" classb="" classb,="" ices-003="" part15="" safety=""> IEC60950-1 Ed.2 <emcs-en55022 (use="" 6.5="" ac="" adapter)<="" classb,="" dc="" en55024="" only="" panasonic="" td="" v="" with=""></emcs-en55022></emcs-fcc>
	Supported Print Pr	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users Compatibility I Compatibility s s ard	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH IPve: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DNS, NTP, SMMP, UPPP, IGMP, ICMP, ARA 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, Panasonic protocol output VMD BL-VP101: Safetys UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <emc> FCC Part15 ClassB, ICES-003 ClassB BL-VP101E / BL-VP101U: <safetys ed.2="" iec60950-1="" €cmc=""> FCD FS0522 ClassB, EN55024 6.5 V DC (Use only with Panasonic AC adapter) BL-VP101/P0101E/P0101U: max. 1.8 W</safetys></emc>
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Alarm	Supported Print Pr	Transmission Type Image Quality Refresh Interval Transmission Type rotocol aneous Users e Compatibility I Compatibility? es s ard e and mption ng Temperature	UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH PIVe: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, MLD, (CMP, ARP) PV4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UP-RP, [GMP, ICMP, ARI 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, Panasonic protocol output VMD BL-VP101: Safety> UL60950-1 Ed.2, C22.2 NO.60950-1 Ed.2 <emc> FCC Part15 ClassB, ICES-003 ClassB BL-VP101F / BL-VP101U: Safety> IEC60950-1 Ed.2, Safety> EC60950-1 Ed.2, Safety> EC60950-1 Ed.2 Safety> EC60950-1 Ed.2</emc>
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- *2 The actual line speed may be different depending on the network environment and the wireless devices connected.
- devices connected.

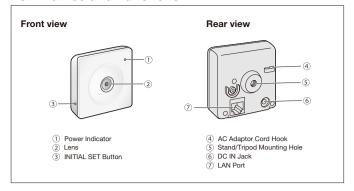
 3 Depending on the wireless router (wireless access point) used, connections may not possible between the camera and the wireless router.

 When connecting with 802.11n, select WPA-PSK (AES) or WPA2-PSK (AES) for security.

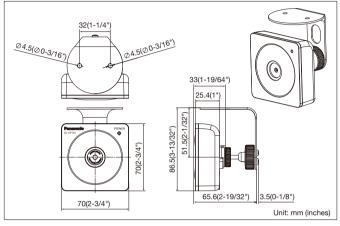
 4 Refer to "Notes on Windows Vista" / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

 5 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- Transmission for 2 streams can be individually set in the same compression method.
 For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



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- Important
 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.
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