

Super Dynamic Weather Resistant HD Network Camera WV-SW314



HD / 1,280 x 960 H.264 Network Camera featuring Super Dynamic

Key Features

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel high sensitivity MOS 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 960 image size
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic Range technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night (Electrical) function: 0.3 lx (Color),
 0.2 lx (B/W) at F1.3 (Wide)
- VIQS (Variable Image Quality on Specified area) technology allows the designated area to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Up to 7.2x Extra Optical Zoom under VGA resolution.
 2.8-10 mm, 3.6x vari-focal auto iris lens (5.6-20 mm, 7.2x with Extra Optical Zoom under VGA)
- VMD (Video Motion Detector) 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.
- Meta data for VMD is supplied to work with the WJ-NV200 /WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic 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/MPEG-4 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.
- 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
- Analog Monitor output for easier installation
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.

Standard Accessories

Installation Guide	Waterproof tape
*1 The CD-ROM contains the operating instructions (HTML *2 This label may be required for network management. The network administrator shall retain the code label	, PDFs) and different kinds of tool software programs.

Optional Accessory

Adapter Box WV-Q120



Specifications

TV System			NTSC
Camera	Image Senso	or	1/3 type MOS Sensor
	Effective Pixe		Approx. 1.3 megapixels
	Scanning Mo		Progressive scan
	Scanning Are		4.80 mm (H) x 3.60 mm (V) (3/16"(H) x 5/32"(V))
	Minimum Illu		Color: 0.3 lx, B/W: 0.2 lx at F1.3 (Shutter: 1/30 s, AGC: High),
			Color: 0.019 lx, B/W: 0.013 lx at F1.3 (Shutter: 16/30 s, AGC: High)
	White Balance	e	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)
	Light Control Mode Shutter Speed Super Dynamic Face Super Dynamic Adaptive Black Stretch AGC		Outdoor: Automatic integration of ALC and ELC
			Indoor [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s)
			Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/100 s)
			Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120,
			1/250,1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super-Dynamic Of ON / OFF
			ON / OFF (Only at Super Dynamic: ON)
			ON / OFF (Only at Super Dynamic: OFF)
			ON (LOW, MID, HIGH) / OFF
	Electronic Sensitivity UP		OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s
	Day & Night (Electrical)		OFF / AUTO
	Dynamic Range		52 dB typ. (Super Dynamic: On, Light control mode: indoor scene)
	Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zone		Up to 2 zones, Gray
	VIQS		ON / OFF
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Focus Adjustment		Focus Asist
Lens	Focus Adjustment Focal Length		2.8 mm ~ 10 mm, 3.6x (5.6 mm ~ 20 mm, 7.2x with extra optical zoom (at VGA))
LUIIO	Angular Field of View		H: 27.7° (TELE) ~ 100.3° (WIDE), V: 20.8° (TELE) ~ 73.6° (WIDE)
			1: 1.3 (WIDE) ~ 1: 3.1 (TELE)
	Maximum Aperture Ratio		1:1.3 (WIDE) ~ 1:3.1 (TELE) 0.3 m ~ ∞
Adjusting A	Focusing Range		U.3 m ~ ∞ Horizontal: ±100° (Camera mount bracket)
Adjusting Angle			
Drower OI"	Comor- C	d.	Vertical: +30°, -90° (Camera mount bracket)
Browser GUI		Л	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.
	Digital Zoom		1x, 2x, 4x controlled by browser GUI
	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 Cap	ture	A still picture will be displayed on a newly opened window.
	GUI/Setup Me		English, French, Italian, Spanish, German, Russian, Chinese, Japanese
	Supported OS*1*2		Microsoft® Windows® 7,
		-	Microsoft® Windows Vista®,
			Microsoft® Windows® XP SP3
	Cupported D	rouroor	Windows® Internet Explorer® 9.0 (32-bit)
	Supported Browser		
			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
	Image Resolution 4	Aspect ratio: [4:3]	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fp
			MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps
			JPEG (M-JPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps
		Aspect ratio: [16:9]*3	H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps
			JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps
	H.264/MPEG-4 *5 *6	Transmission Mode	Constant bitrate / Framerate priority / 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 /
	1	DIL DALE/ CHEFIL	
		leaner C . I'l	4,096 / 8,192* kbps * H.264 mode only
		Image Quality	LOW / NORMAL / FINE
		Refresh Interval	LOW / NORMAL / FINE 0.2 s ~ 5 s
		Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 s ~ 5 s UNICAST / MULTICAST
	JPEG	Refresh Interval Transmission Type Image Quality	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps
	JPEG	Refresh Interval Transmission Type Image Quality Refresh Interval	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps
	JPEG	Refresh Interval Transmission Type Image Quality	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps
	JPEG Total Bit Rate	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH
	Total Bit Rate	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
		Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
	Total Bit Rate	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPNs: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPN6,
	Total Bit Rate	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPN: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,SNMP, DHCPv6, MLD, ICMP, ARP IPN-4: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RTP
	Total Bit Rate Supported P	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPNe: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,SNMP, DHCPv6, MLD, ICMP, ARP IPNe: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, RTP, RTP, RTP, RTP, RTP, SMTP, SMTP, DNS, DNS, DNS, DNS, DNS, DNS, DNS, DNS
	Total Bit Rate Supported P	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type e rotocol	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 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, MUL, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission
	Total Bit Rate Supported P	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type e e e cous Users	LOW / NORMAL / FINE 0.2 s - 5 s UNCAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPN: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPN6, MLD, ICMP, ARP IPN: TCP/IP, UDP/IP, HTTP, HTTPS, RTS, FTP, RTP/RTCP, FTP, SMTP, DNS, DNS, DNS, NTP, SNMP, UP-P, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions)
	Total Bit Rate Supported P FTP Client No. of Simultane Face Detection	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type e rotocol	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPW: TOP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP IPW: TOP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DNS, DNS, DNS, DNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification)
	Total Bit Rate Supported P	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type e rotocol	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPNo: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MMLD, ICMP, ARP IPN-4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPNP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPad, IPNone, IPOd touch (IOS 4.2.1 or later)
	Total Bit Rate Supported Pi FTP Client No. of Simultane Face Detection Mobile Terminal	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type e rotocol eous Users on I Compatibility'7	LOW / NORMAL / FINE 1.0 2 S - 5 S UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 19% TOP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP MLD, ICMP, ARP 19v4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) 1Pad, iPhone, iPod touch (iOS 4.2.1 or later) Android TM mobile terminals
Alarm	Total Bit Rate Supported P FTP Client No. of Simultane Face Detecti Mobile Terminal Alarm Source	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type erotocol eous Users on I Compatibility?	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPNe: TCP/IP. UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,SNMP, DHCP+6, MLD, ICMP, ARP IPNet TCP/IP. UDP/IP, HTTP, HTTPS, RTP, RTP, RTP,RTCP, FTP,SMTP, DNHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) iPad, IPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals VMD, Command alarm
Alarm	Total Bit Rate Supported Pi FTP Client No. of Simultane Face Detection Mobile Terminal	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol Book State Companies of the Com	LOW / NORMAL / FINE 0.2 s - 5 s UNCAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPN: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPN6, MLD, ICMP, ARP HPN: TCP/IP, UDP/IP, HTTP, HTTPS, RTS, FTP, RTP/RTCP, FTP, SMTP, DHCPN6, DNS, DNS, NTP, SNMP, UP-P, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPad, IPhone, IPod touch (IOS 4.2.1 or later) Android™ mobile terminals VMD, Command alarm E-mail notification
Alarm	Total Bit Rate Supported P FTP Client No. of Simultane Face Detection Mobile Terminal Alarm Source Alarm Action	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol Book State Companies of the Com	LOW / NORMAL / FINE 0.2 S - 5 S UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 19%: TCPIP, UDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,SNMP, DHCPv6, MLD, ICMP, ARP IPV4: TCPIP, UDPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,SMTP, DMS, NTP, SMTP, DNS, DNS, NTP, SMMP, UPNP, ICMP, ARP IPV4: TCPIP, UDPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,SMTP, DHCP, DNS, DDNS, NTP, SMMP, UPNP, ICMP, CMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPad, IPhone, IPod touch (IOS 4.2.1 or later) Android ^M mobile terminals VMD, Command alarm E-mail notification Indication on browser, FTP image transfer, Panasonic protocol output
	Total Bit Rate Supported P FTP Client No. of Simultane Face Detecti Mobile Terminal Alarm Source Alarm Action Schedule	Refresh Interval Transmison Jenesh Interval Iransmison Type Protocol Boous Users On I Compatibility Bessen	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPNS: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP IPN-4: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, RTP, RTP, RTP, RTP, SMTP, DNS, DNS, NTP, SMMP, UPP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals E-mail notification Indication on browser, FTP image transfer, Panasonic protocol output VMD / Access permission / H.264 recording
	Total Bit Rate Supported P FTP Client No. of Simultane Face Detection Mobile Terminal Alarm Source Alarm Action	Refresh Interval Transmison Jenesh Interval Iransmison Type Protocol Boous Users On I Compatibility Bessen	LOW / NORMAL / FINE 0.2 s - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPNS: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP IPN-4: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, RTP, RTP, RTP, RTP, SMTP, DNS, DNS, NTP, SMMP, UPP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals E-mail notification Indication on browser, FTP image transfer, Panasonic protocol output VMD / Access permission / H.264 recording
Input/ Output	Total Bit Rate Supported P FTP Client No. of Simultane Face Detecti Mobile Terminal Alarm Source Alarm Action Schedule Monitor Output	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol Beous Users On I Compatibility* S (for adjustment)	LOW / NORMAL / FINE 1.0 2 s - 5 s UNCAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPN: TOP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPV6, MLD, ICMP, ARP 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 Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPAd, iPhone, iPod touch (iOS 4.2.1 or later) Android M mobile terminals VMD, Command alarm E-mail notification Indication on browser, FTP image transfer, Panasonic protocol output VMD / Access permission / H_264 recording VSS: 1.0 V [Po-J775 Q, NTSC composite, RCA Jack
Input/ Output	Total Bit Rate Supported P FTP Client No. of Simultane Face Detecti Mobile Terminal Alarm Source Alarm Action Schedule	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol Beous Users On I Compatibility* S (for adjustment)	LOW / NORMAL / FINE 1.0 2 S - 5 S UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 16w: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP 1Pw: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, RTP, RTP, RTP, RTP, RTP, RTP, SMTP, DNS, DNS, NTP, SNMP, UPnP, ICMP, ARP 1Aarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) 1Pad, IPhone, IPod touch (iOS 4.2.1 or later) Android M mobile terminals VMD, Command alarm E-mail notification Indication on browser, FTP image transfer, Panasonic protocol output VMD / Access permission / H.264 recording UL (UL60950-1), FCC (Part15 ClassA),
Input/ Output	Total Bit Rate Supported P FTP Client No. of Simultane Face Detecti Mobile Terminal Alarm Source Alarm Action Schedule Monitor Output	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol Beous Users On I Compatibility* S (for adjustment)	LOW / NORMAL / FINE 1.0 x - 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPN: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPN6, MLD, ICMP, ARP MLD, ICMP, ARP HPN: TCP/IP, UDP/IP, HTTP, HTTPS, RTS, FTP, RTP/RTCP, FTP, SMTP, DHCPN6, DNS, DNS, NTP, SNMP, UP-P, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) 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 / Access permission / H.264 recording VBS: 1.0 V [p-p)/75 Q, NTSC composite, RCA Jack UL (UL60950-1), FCC (Part15 ClassA), C-UL (CANCSA C22.2 No.60950-1),
Input/ Output	Total Bit Rate Supported P. FTP Client No. of Simultane Face Detecti Mobile Termina Alarm Source Alarm Action Schedule Monitor Output Safety/EMC	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol Boous Users On I Compatibility? S S S S S S S S S S S S S S S S S S	LOW / NORMAL / FINE 1.0 2 S - 5 S UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 16%: TCPIP, UDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP 1794: TCPIP, UDPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DNC, DNS, DDNS, NTP, SNMP, UPPIP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPad, IPhone, IPod touch (IOS 4.2.1 or later) Android ¹ M mobile terminals VMD, Command alarm E-mail notification Indication on browser, FTP image transfer, Panasonic protocol output VMD / Access permission / H.264 recording VSB: 1.0 V [Po-J/75 Q, NTSC composite, RCA Jack UL (UL60950-1), FCC (Part15 ClassA), C-UL (CANVCSA C22.2 No.60950-1), DOC (ICES003 ClassA)
Input/ Output	Total Bit Ratic Supported P FTP Client No. of Simultane Face Detection Mobile Termina Alarm Source Alarm Action Schedule Monitor Output Safety/EMC Power Source and I	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol I Compatibility I Compatibility I Compatibility Standard	LOW / NORMAL / FINE 1.0 2 s − 5 s UNICAST / MULTICAST 10 steps 0.1 fps − 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128
Input/ Output	Total Bit Rate Supported P FTP Client No. of Simultane Face Detectin Mobile Termina Alarm Source Alarm Action Schedule Monitor Output Safety/EMC: Power Source and I Ambient Operat	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol cous Users Con Compatibility? e s (for adjustment) Standard Power Consumption Ing Temperature	LOW / NORMAL / FINE 1.02 s - 5 s UNCAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPN: TOPIP, UDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPV6, MLD, ICMP, ARP MLD, ICMP, ARP HV4- TCPIP, UDPIP, HTTP, HTTPS, RTS, FTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) ON / OFF (with XML notification) IPPAd, iPhone, iPod touch (iOS 4.2.1 or later) Android ^M mobile terminals VMD, Command alarm E-mall notification Indication on browser, FTP image transfer, Panasonic protocol output VMD / Access permission / H.264 recording VBS: 1.0 V [p-p]/75 Ω, NTSC composite, RCA Jack UL (UL60950-1), FCC (Part15 ClassA), C-UL (CAN/CSA C22 2 No.60950-1), DCG (ICES003 ClassA) POE (IEEE 802.361 compliant) 48 V: 70 mA (Class 0 device) 1.0 °C - +50 °C (14 °F - 122 °F)
Alarm Input/ Output General	Total Bit Ratic Supported P FTP Client No. of Simultane Face Detection Mobile Termina Alarm Source Alarm Action Schedule Monitor Output Safety/EMC Power Source and I	Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Protocol Boous Users On I Compatibility? Standard Fower Consumption Ing Temperature atting Humidity	LOW / NORMAL / FINE 1.0 2 s − 5 s UNICAST / MULTICAST 10 steps 0.1 fps − 30 fps PULL / PUSH 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 128 / 1,004 / 1,004 / 1,004 / 1,006 / 1,

TV Syster	n	NTSC
General	Dimensions	94 mm (W) × 89 mm (H) × 226 mm (L) (3-7/10" (W) × 3-1/2" (H) × 8-7/8" (L))
	Mass (approx.)	1.3 kg (2.87 lbs.)
	Finish	Main body: Aluminum die cast/resin, metallic silver coating
		Front cover section clear part: Polycarbonate resin

- *1 For further information about PC system requirements and precautions for when using Microsoft Windows 7, Microsoft Windows Vista, or Windows Internet Explorer, click "Manual"-"Open" from the supplied CD-ROM and refer to "Notes on Windows / Internet Explorer versions".

 For information on the camera models of the supported operating systems, refer to our website

- (http://panasonic.net/pss/security/support/index.html).

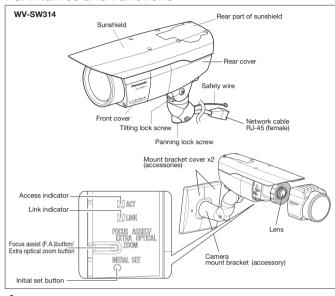
 *2 When using IPv6 for communication, use Microsoft Windows 7 or Microsoft Windows Vista.

 *3 MPEG-4 is not supported. *4 [4:3] and [16:9] are alternative.

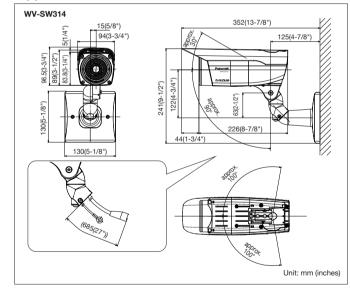
 *5 H.264 and MPEG-4 are alternative. *6 Transmission for 2 streams can be individually set in the same compression method.

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

Part Names and Functions



Appearance



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