

Super Dynamic Weather Resistant HD Network Camera

WV-SW316L WV-SW316

Preliminary



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(IR) function:
 WV-SW316L: 0.3 lx (Color), 0 lx (B/W) at F1.3 (Wide) when the IR LED is lit
 WV-SW316: 0.3 lx (Color), 0.05 lx (B/W) at F1.3 (Wide)
- Motorized varifocal lens equipped:
 The zoom ratio can be changed and adjusted to an optional photographic area through the operation buttons on this unit and the setup menu.
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.(WV-SW316L)
- 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.
- ABF (Auto Back Focus) ensures easy installation.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Up to 6.4x Extra Optical Zoom under VGA resolution.
 3.1-10 mm, 3.2x vari-focal auto iris lens (6.2-20 mm, 6.4x with Extra Optical Zoom at 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 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic protocol output.

- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- 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.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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 1 pc. CD-ROM*1 1 pc. Code Label*2 1 pc. The followings are for installation. 4P alarm cable 1 pc. 2P power cable 1 pc.	Camera mount bracket
*1 The CD-ROM contains the operating instructions (PDFs *2 This label may be required for network management. The network administrator shall retain the code label.) and different kinds of tool software programs.

Optional Accessory

Adapter Box WV-Q120



Specifications

	I I	_	NTSC PAL	
Camera	Image Senso		1/3 type MOS Sensor	
	Effective Pixe		Approx. 1.3 megapixels	
	Scanning Mo		Progressive scan	
	Scanning Are Minimum Illu		4.80 mm (H) x 3.60 mm (V) (3/16"(H) x 5/32"(V)) WV-SW316L: Color: 0.3 lx, B/W: 0 lx at F1.3 (Shutter: 1/30 s, AGC: High, when the IR LED is lit)	
	Wilhimum illui	mination		
			Color: 0.019 lx, at F1.3 (Shutter: 16/30 s, AGC: High)	
			WV-SW316: Color: 0.3 lx, B/W: 0.05 lx at F1.3 (Shutter: 1/30 s, AGC: High),	
	15.155.11.11		Color: 0.019 lx, B/W: 0.003 lx at F1.3 (Shutter: 16/30 s, AGC: High)	
	IR LED Light		WV-SW316L: Off/Auto(High/Mid/Low)	
	IR LED irradia		WV-SW316L: 15 m {49.21 feet}	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
	Light Control	Mode	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 1/120 s)	
	Shutter Speed	d	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 Off	
	Super Dynamic	C	ON / OFF	
	Face Super Dy		ON / OFF (Only at Super Dynamic: ON)	
	Adaptive Black Stretch AGC		ON / OFF (Only at Super Dynamic: OFF)	
			ON (LOW, MID, HIGH) / OFF	
	Electronic Sen	sitivity 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 (IR)		Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control	
	Dynamic Range		52 dB typ. (Super Dynamic: On, Light control mode: indoor scene)	
			High / Low	
	Digital Noise Reduction		4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Video Motion Detection Privacy Zone		4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 2 zones, Gray	
	VIQS		ON / OFF	
		ICD)		
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)	
Lone	Focus Adjustme	erit	ABF / MANUAL	
Lens	Focal Length	£1/:	3.1 mm ~ 10 mm, 3.2x (6.2 mm ~ 20 mm, 6.4x with extra optical zoom (at VGA))	
	Angular Field of		H: 27.7° (TELE) ~ 100.3° (WIDE), V: 20.8° (TELE) ~ 73.6° (WIDE)	
	Maximum Aper		1 : 1.3 (WIDE) ~ 1 : 3.0 (TELE)	
	Focusing Range	e	0.3 m ~ ∞	
Adjusting A	Angle		Horizontal: ±100° (Camera mount bracket)	
			Vertical: +30°, -90° (Camera mount bracket)	
Browser GUI	Camera Contro	I	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.	
	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 Capture		A still picture will be displayed on a newly opened window.	
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,	
			Audio Output: ON / OFF Volume adjustment: Low / Middle / High	
	SD Memory Data Download		Still or motion Images recorded in the SDHC/SD memory	
	,		card can be downloaded.	
	GUI/Setup Menu Language		English, French, Italian, Spanish, German, Russian, Chinese, Japanese	
	System Log	na Language	Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when therecording format is set to JPEG.) error logs	
	Supported OS "1 "2		Microsoft® Windows® 7 Professional 64 bit/32 bit,	
	Supported O	0	Microsoft® Windows Vista® Business SP1 32 bit,	
			Microsoft® Windows® XP Professional SP3	
	Cupported D	rouroor	Windows® Internet Explorer® 8.0 32 bit (Microsoft® Windows® 7	
	Supported B	owser	Professional 64 bit/32 bit), Windows® Internet Explorer® 7.0	
			(Microsoft® Windows Vista® Business SP1 32 bit), Microsoft®	
Network	Network IF		Internet Explorer® 6.0 SP3 (Microsoft® Windows® XP Professional SP3 10Base-T / 100Base-TX, RJ-45 connector	
NELWOIK			H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
	illage nesolution .	Aspect ratio. [4 . 3]		
			MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
		A	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 15 16	Transmission Mode		
		Frame Rate		
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /	
			4,096 / 8,192* kbps * H.264 mode only	
		Image Quality	LOW / NORMAL / FINE	
		Refresh Interval	0.2 s ~ 5 s	
		Transmission Type	UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
		Refresh Interval	0.1 fps ~ 30 fps	
			PULL / PUSH	
		Transmission Type		
	Audio Compr	Transmission Type	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	Audio Compr Audio Mode	Transmission Type	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Audio Mode	Transmission Type ression	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Audio Mode Authenticatio	Transmission Type ression on for Audio	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users	
	Audio Mode Authenticatio Total Bit Rate	Transmission Type ression on for Audio	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Audio Mode Authenticatio	Transmission Type ression on for Audio	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA6: TCP/IP, UDPIP, HTTP, HTTPS, RTP, FIP, SMTP, DNS, NTP,SNMIP, DHCPN6, MLD, (CMP, ARI	
	Audio Mode Authenticatio Total Bit Rate	Transmission Type ression on for Audio	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA6: TCP/IP, UDPI/P, HTTP, HTTPS, RTP, FTP, SMTP, DNS, MTP, SNMIP, DHCPA, MLD, ICMP, ARI IPA4: TCP/IP, UDPI/P, HTTP, HTTPS, RTP, FTR, RTP, RTP, RTP, RTP, RTP, RTP, SMTP, DNS, MTP, DHCP, DNS, DDNS, NTP, NTP, RTP, RTP, RTP, RTP, RTP, RTP, RTP, R	
	Audio Mode Authenticatio Total Bit Rate Supported Pr	Transmission Type ression on for Audio	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 84 / 128 / 256 / 384 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Inter Cropie, Uppii, HTTP, HTTPS, RTP, FTP, SMTP, DIS, MTP, SMMP, DHCPA6, MLD, CMP, ARI IPM4: TCPIIP, UDPIIP, HTTP, HTTPS, RTP, RTP, RTP, RTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SMMP, UPPA; (DMP, APP	
	Audio Mode Authenticatio Total Bit Rate	Transmission Type ression on for Audio	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IP-6: TCPIIP, UDPIIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCP-6, MLD, ICMP, ARI IP-4: TCPIIP, UDPIIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP SMTP, DHCP, DNS, DDNS, NTP, SMMP, UP-IP, ISMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the	
	Audio Mode Authenticatio Total Bit Rate Supported Pr	Transmission Type ression on for Audio erotocol	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 40 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,044 / 4,096 / 8,192 kbps / Unlimited IP4: TOPIP, UDPIP, HITP, HITPS, RTP, FTP, SMIP, DNS, NTP, SNMP, DHC-P, 6, MLD, LOMP, ARI IP4: TCPIP, UDPIP, HITP, HITPS, RTP, RTP, RTP, RTP, RTP, RTP, RTP, SMIP, DHCP, DNS, DDNS, NTP, SNMP, UP4P, ISMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available.)	
	Audio Mode Authenticatio Total Bit Rate Supported Pr FTP Client No. of Simultane	Transmission Type ression on for Audio orotocol ous Users	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 84 / 128 / 256 / 384 / 512 / 788 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Interior (Line) / 1,000 /	
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	Audio Mode Authenticatio Total Bit Rate Supported Pr FTP Client No. of Simultane	Transmission Type ression on for Audio orotocol ous Users	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 786 / 1.024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA: TOPIP, UDPIP, HTP, HTPS, RTP, FTP, SMIP, DNS, MTP, SNMP, DHCPA, MLD, CMP, ARI IPA: TOPIP, UDPIP, HTTP, HTPS, RTP, FTP, RTP, RTP, FTP, FTS, MTP, DHCP, DNS, DDNS, NTP, SNMP, UPIP, IGMP, ICMP, APP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) LP264 recording: Manual REC / Jalam REC (PerPost) / Schedule REC JPEG recording: Manual REC / Jalam REC (Post) / Backup upon network failure	
	Audio Mode Authenticatio Total Bit Rate Supported Pr FTP Client No. of Simultane	Transmission Type ression on for Audio orotocol ous Users	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 84 / 128 / 256 / 384 / 512 / 786 / 1.024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Interactive / 1.024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Interactive / 1.024 / 2,048 / 2,048 / 4,096 / 8,192 kbps / Unlimited Interactive / 1,048 / 2,048 /	
	Audio Mode Authenticatio Total Bit Rate Supported Pi FTP Client No. of Simultane SDHC/SD Memoi	Transmission Type resision in for Audio a rotocol ous Users ry Card (Option)	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 10,24 / 2,048 / 4,096 / 8,192 kbps / Unlimited IP46: TCPIP, UDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DNC-PA, MLD, (CMP, ARI IP46: TCPIP, UDPIP, HTTP, HTTPS, RTP, RTP, RTP, RTP, RTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UP4P, ISMP, ICMP, APP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) Le24 recording/Maunal REC / Amm REC (Persol) / Schedule REC JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible S) (SDHC) card: Parasonic 256 MB, 512MB, 1 68, 2 68, 4 GB, 6 GP, 16 GB; 32 GB mode 'SSHC card	
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A	Audio Mode Authenticatio Total Bit Rate Supported Pr FTP Client No. of Simultane SDHC/SD Memor Face Detectic Cellular Phone Mobile Termina	Transmission Type ession in for Audio erotocol ous Users y Card (Option) Compatibility I Compatibility	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 84 / 128 / 256 / 384 / 512 / 788 / 1.024 / 2,084 / 4,096 / 8,192 kbps / Unlimited 194: 1679 / DUPP, HTP, HTP, HTPS, RTP, FTP, SMTP, DNS, MTP, SNMP, DNG-PA, MLD, (CMP, ARI 194: 1679 / DUPP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, DNS, NTP, SNMP, DHCP, DNS, DDNS, NTP, SNMP, UPP, IGMP, ICMP, ARIP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Pre/Post) / Schedule PC JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible SD (SDHC) card: Parasonic 256 MB, 512MB, 1 68, 2 68, 4 68*, 6 68*, 16 68*, 2 68* mode SDHC card ON / OFF (with XML notification) JPEG image, AUX control (by access level) IPBad, iPhone, iPod touch (IOS 4.2.1 or later) Android™ mobile terminals	
Alarm	Audio Mode Authenticatio Total Bit Rate Supported Pi FTP Client No. of Simultane SDHC/SD Memor Face Detectic Cellular Phone Mobile Termina Alarm Source	Transmission Type ession In for Audio One of the control of the	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 344 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946: 120 / 126 / 344 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946: 120 / 120 / 344 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946: 120 /	
Alarm	Audio Mode Authenticatio Total Bit Rate Supported Pr FTP Client No. of Simultane SDHC/SD Memor Face Detectic Cellular Phone Mobile Termina	Transmission Type ession In for Audio One of the control of the	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 84 / 128 / 256 / 384 / 512 / 768 / 10,24 / 2,048 / 4,096 / 8,192 kbps / Unlimited 194: TOPI, PUDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DNC-PA, MLD, ICMP, AR 194: TOPIP, UDPIP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, DDNS, DDNS, NDP, SNMP, SMMP, UPPIP, IGMP / LOMP, ARP Alarm image transmission, FTP periodic transmission (When the TP transmission failed, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) H264 recording; Manual REC / Alarm REC (Prest) / Backup upon network failure Compatible SD (SDHC) card Pansonic 256 MB, 512/MB, 168, 2 68, 46P, 86P, 16 GB′, 32 GB′ mode SSHC card ON / OFF (with XML notification) TyEGI mage, AUX control (by access level) IPEG, iPhone, IPOd touch (IOS 4.2.1 or later) Android™ mobile terminals 1 terminal input, VMD, Command alarm SDHC/SD memory recording, E-mail notification, Alarm terminal output,	
Alarm	Audio Mode Authenticatio Total Bit Rate Supported Pi FTP Client No. of Simultane SDHC/SD Memor Face Detectic Cellular Phone Mobile Termina Alarm Source Alarm Action	Transmission Type ession In for Audio 9 Protocol Ous Users By Card (Option) On Compatibility Compatibility Compatibility	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 84 / 128 / 256 / 344 / 512 / 758 / 1.024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946 : 109/P, UDPIP, HTP, HTPS, RTP, FTP, SMTP, DNS, MTP, SNMP DHCPA, MLD, CMP, ARI 1944 : 109/P, UDPIP, HTTP, HTPS, RTP, FTP, SMTP, DNS, MTP, SNMP, DHCPA, BMD, CMP, ARI 1944 : 109/P, UDPIP, HTTP, HTPS, RTP, FTP, FTP, FTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPPIP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) 14264 recording: Manual REC / Alarm REC (PerPost) / Schedule REC JPEG recording: Manual REC / Alarm REC (PerPost) / Schedule REC JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible 50 (SDHC) card: Panasonic 256 MB, 512MB, 1 6B, 2 GB, 4 GB, 8 GB, 16 GB, 32 GB mode SDHC card ON / OFF (with XML notification) JPEG image, AUX control (by access level) 178-d, iPhone, iPod touch (105 42.1 or later) Android™ mobile terminals 1 terminal input, VMD, Command alarm STHC/SD memory recording, E-mail notification, Alarm terminal output, Indication on browser, FTP image transfer, Panasonic protocol output	
Alarm	Audio Mode Authenticatio Total Bit Rate Supported Pi FTP Client No. of Simultane SDHC/SD Memoi Face Detectic Cellular Phone Mobile Termina Alarm Source Alarm Action Alarm Log	Transmission Type ession In for Audio 9 Protocol Ous Users By Card (Option) On Compatibility Compatibility Compatibility	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 344 / 512 / 788 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946 : 1029/F, UDPI/P, HTP, HTPS, RTP, FTP, SMIP, DNS, MPS, SMMP, DHCPA, MLD, ICMP, ARI 1946 : TCPI/P, UDPI/P, HTP, HTTPS, RTP, FTP, SMIP, DNS, MPS, SMMP, DHCPA, DNS, DDNS, NTP, SMMP, UPP-P, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is falled, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) H.264 recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG Recording: Manual REC / Alarm REC (Per/Post) / Schedule REC JPEG Recording: Manual REC /	
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	Audio Mode Authenticatio Total Bit Rate Supported Pi FTP Client No. of Simultane SDHC/SD Memo Face Detecti Cellular Phone Mobile Termina Alarm Source Alarm Action Alarm Log Schedule	Transmission Type session In for Audio a rotocol ous Users y Card (Option) Compatibility a compatibility a session for adjustment)	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 344 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946: 120 / 126 / 344 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946: 120 / 120 / 344 / 512 / 786 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946: 120 /	
	Audio Mode Authenticatio Total Bit Rate Supported Pi FTP Client No. of Simultane SDHC/SD Memor Face Detectic Cellular Phone Mobile Termina Alarm Source Alarm Action Alarm Log Schedule Monitor Output i	Transmission Type session In for Audio a rotocol ous Users y Card (Option) Compatibility a compatibility a session for adjustment)	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 40 / 128 / 256 / 384 / 512 / 768 / 10.24 / 2.048 / 4.096 / 8.192 kbps / Unlimited 19-6: TCPIP, UDPIP, HTP, HTPS, TRP, FTP, SMIP, DNS, NTP, SNMP, DNC-KB, MLD, (CMP, ARI 19-6: TCPIP, UDPIP, HTTP, HTTPS, STR, FTP, RTP, RTP, RTP, RTP, BNTP, DHCP, DNS, DDNS, NTP, SNMP, UPP, ISMP, LORP, ARP Alarm image transmission, FTP periodic transmission (When the TP transmission falled, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) 1426 recording, Manual REC / Alarm REC (Penst) / Schedule REC 19-EG recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 repatible SD (SDHC) card Parasonic 256 MB, 51/MB, 138, 2 68, 4 68°, 86°, 16 68°, 32 68° mode 10 recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 repatible SD (SDHC) card Parasonic 256 MB, 51/MB, 138, 12 68, 12 68°, 16 68°, 32 68° mode 10 recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 repatible SD (SDHC) card Parasonic 250° mode 10 recording; Manual REC / Alarm REC (Post) / Backup upon network failure 10 recording; Manual REC / Alarm REC (Post) / Backup upon network minial input, villo / Backup upon network minial upon villo / Backup upon netwo	
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Alarm Input/ Output	Audio Mode Authenticatio Total Bit Rate Supported Pi FTP Client No. of Simultane SDHC/SD Memo Face Detectic Cellular Phone Mobile Termina Alarm Action Alarm Log Schedule Monitor Output I Microphone/I	Transmission Type ession In for Andrio a control of a co	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 344 / 512 / 768 / 1.024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1946 : 109/IP, UDPI/P, HTP, HTPS, RTP, FTP, SMIP, DNS, MPS, SMIP, DNG-P, MLD, CMP, ARI 1944 : TOPI/P, UDPI/P, HTP, HTPS, RTP, FTP, SMIP, DNS, MPS, SMIP, DNG-P, DNS, DNS, NTP, SMIP, UPP-P, ISMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is falled, backup on an optional SDHC/SD memory card is available.) Up to 14 users (Depends on network conditions) H.284 recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Alarm REC (Per/Post) / Schedule REC 19EG recording: Manual REC / Recording / Forbite black / Barth Recording / Schedule REC 19EG recording: Manual REC / Recording / Forbite black / Manual Recording / Schedule REC 19EG recording: Manual REC / Recording / Forbite black / Manual Recording / Schedule Recording / Schedule Recording / Schedule Recording / Schedul	

C-UL (CAN/CSA C22.2 No.60950-1), DOC (ICES003 ClassA)

TV System		NTSC	PAL	
General	Power Source and Power Consumption	12 V DC: 850 mA		
		* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.		
		PoE (IEEE 802.3af compliant) 48 V: 200 mA (Class 0 device)		
	Ambient Operating Temperature	-40 °C ~ +50 °C (-40 °F to 122 °F)		
	Ambient Operating Humidity	90 % or less (without condensation)		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
	Dimensions	94 mm (W) x 89 mm (H) x 226 mm (L) (including projection of base cover fixing screw)		
		(3-7/10" (W) × 3-1/2" (H) × 8-7/8" (L))		
	Mass (approx.)	1.4 kg (3.09 lbs.)		
	Finish	Main body: Aluminum die cast/resin, metallic silver coating		
		Front cover section clear part: Polycarbonate resin		

- **I 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".

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

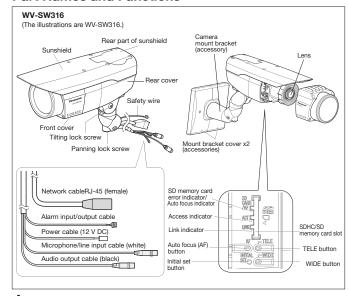
 **3 MPEG-4 is not supported. **4 [4:3] and [16:9] are alternative.

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

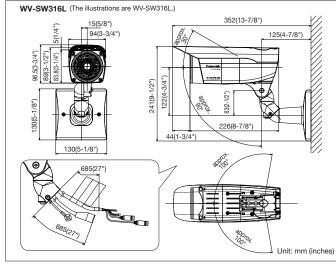
- same compression method.

 *7 For information on the camera models of the supported operating systems, refer to our website at http://panasonic.net/pss/security/support/info.html.

Part Names and Functions



Appearance



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