Panasonic

Super Dynamic Weather Resistant HD Network Camera WV-SW316L **WV-SW316**



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
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Up to 6.4x Extra Optical Zoom at VGA resolution. 3.1-10 mm, 3.2x vari-focal auto iris lens (3.1-20 mm (equivalent), 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
- 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.
- Dehumidification device for use in various weather conditions
- Fog compensation

Standard Accessories

Otalidala Addessories					
• Installation Guide					
The followings are for installation. • 4P alarm cable					
Camera mount bracket					
*1 The CD-ROM contains the operating instructions (HTML)					

- (M4 x 35) (PAL model only)..... Mounting screws for adapter box / camera mount bracket (M5 x 20)(PAL model only)
 5 pcs. (of them, 1 for spare)
- PDFs) and different kinds of tool software programs *2 This label may be required for network management
 The network administrator shall retain the code label

Optional Accessory

Adapter Box WV-Q120 (NTSC model only)



Specifications

TV System Camera				
Camera			1/3 type MOS Sensor Approx. 1.3 megapixels	
	Effective Pixels		Progressive scan	
	Scanning Mode Scanning Area		4.80 mm (H) x 3.60 mm (V) (3/16"(H) x 5/32"(V))	
	Minimum Illui		W-SW316L: Color: 0.3 lx, B/W: 0 lx at F1.3 (Shutter: 1/30 s, AGC: High, when the IR LED is lit),	
			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), 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 irradiation distance White Balance		WV-SW316L: 15 m {49.21 feet} AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
			Outdoor: Automatic integration of ALC and ELC	
	Light Control Mode Shutter Speed		Outdoor: Automatic integration of ALC and ELC (up to 1/100 s) 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) 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) ON / OFF	
	Super Dynamic Face Super Dynamic		ON / OFF (Only at Super Dynamic: ON)	
	Adaptive Black Stretch		ON / OFF (Only at Super Dynamic: OFF)	
	AGC		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)	
	Angular Field of View		Mode: AUTO1 / AUTO2 / ON / OFF, Level:High / Low, with external control	
			52 dB typ. (Super Dynamic: On, Light control mode: indoor scene)	
			High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
			Up to 2 zones, Gray	
			ON / OFF	
			Up to 20 characters (alphanumeric characters, marks)	
			ABF / MANUAL	
Lens			3.1 mm ~ 10 mm, 3.2x (3.1-20 mm (equivalent), 6.4x with Extra Optical Zoom (at VGA))	
			H: 27.9° (TELE) ~ 90.6° (WIDE), V: 20.9° (TELE) ~ 66.9° (WIDE)	
	Maximum Aperture Ratio		1: 1.3 (WIDE) ~ 1: 3.0 (TELE)	
	Focusing Range		0.3 m ~ ∞	
Adjusting A	ing Angle		Horizontal: ±100° (Camera mount bracket)	
Brower Cill	Camera Cont	rol	Vertical: +30°, -90° (Camera mount bracket) Brightness, AUX ON / OFF	
browser doi	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
	Display Wood	-	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 Contro	l	Reset	
	One Shot Ca	pture	A still picture will be displayed on a newly opened window.	
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,	
	SD Memory Da	ata Download	Audio Output: ON / OFF Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDHC/SD memory	
	OD Michiory Di	ata Download	card can be downloaded.	
	GUI/Setup Me	nu Language	English, French, Italian, Spanish, German, Russian, Chinese, Japanese	
	System Log		Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when	
	Supported OS *1*2		therecording format is set to JPEG.) error logs	
			Microsoft® Windows® 8,Microsoft® Windows® 7, Microsoft® Windows Vista®	
			Microsoft® Windows® XP SP3	
	Supported Bi	owser	Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit), Windows® 7.	
			Microsoft® Internet Explorer® 6.0 SP3	
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector	
	Image Resolution '4 Aspect ratio: [4 : 3]			
			MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
		1	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	
	H.264/MPEG-4 *5 *6	Transmission Mode	JPEG (M-JPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR	
	1.20mm EU-4		1/3/5/7.5/10/12/15/20/30 fps	
			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	
	L		UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
			0.1 fps ~ 30 fps	
	Audio Com-		PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	Audio Compr Audio Mode	C921011	G.726 (ADPCM) 32 Kbps / 16 Kbps, G.711 64 Kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Authentication for Audio Total Bit Rate Supported Protocol FTP Client No. of Simultaneous Users SDHC/SD Memory Card (Option) Cellular Phone Compatibility Mobile Terminal Compatibility' Alarm Source Alarm Actions Alarm Log Schedule Monitor Output (for adjustment) Microphone/Line Input Audio Output		Level 1 only / Level 2 higher / All users	
			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, MLD, ICMP, AR	
			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 (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 (Post) / Backup upon network failure	
			Compatible SD (SDHC) card: Panasonic 256 MB, 512MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* mode	
			*SDHC card	
			JPEG image, AUX control (by access level)	
Alama			iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals	
Alarm			1 terminal input, VMD, Command alarm SDHC/SD memory recording, E-mail notification, Alarm terminal output,	
			SDHC/SD memory recording, E-mail notification, Alarm terminal output, Indication on browser, FTP image transfer, Panasonic protocol output	
			With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs	
			Alarm / VMD / Access permission / H.264 recording/ Forcible black & white mode(WV-SW316	
Input/ Output			VBS: 1.0 V [p-p]/75 Ω, NTSC composite, RCA Jack VBS: 1.0 V [p-p]/75 Ω, PAL composite, RCA Jack	
, Juqui			MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack	
			(monaural input) (Applicable microphone: Plug-in power type)	
			Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ	
			ø3.5 mm stereo mini jack (monaural output) Line level	
General	External I/O Safety/EMC	erminals	ALARM IN, DAY/NIGHT IN, ALARM OUT, AUX OUT UL (UL60950-1), FCC (Part15 ClassA), CE	

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

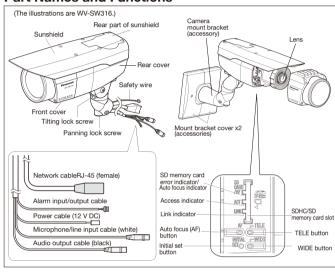
DOC (ICES003 ClassA)

(EN55022 ClassB, EN55024)

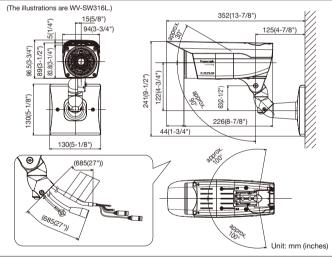
TV System		NTSC	PAL
General Power Source and		12 V DC: 850 mA	
	Power Consumption	* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.	
		PoE (IEEE 802.3af compliant) 48 V: 200 mA (Class 0 device)	
	Ambient Operating Temperature	-40 °C ~ +50 °C (-40 °F to 122 °F)	
	Ambient Operating Humidity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

- *1 For further information about PC system requirements and precautions for when using Microsoft® Windows® 8, 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://security.panasonic.com/pss/security/).
- *2 When using IPv6 for communication, use Microsoft® Windows® 8 or 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://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



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- All other trademarks identified herein are the property of their respective owners.
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 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.

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