Panasonic

Super Dynamic Weather Resistant Full HD PTZ Dome Network Camera WV-SW598



Full HD / 1,920 x1,080 H.264 Weather Proof Camera featuring Optical 30x zoom and Super Dynamic

Key Features

- 1080p HD images up to 30 fps
- 2.4 Megapixel high sensitivity MOS Sensor
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
- 30x optical zoom
- 90x extra optical zoom at 640x360 resolution with 12x digital zoom enabling 1080x zoom.
- 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.
- High sensitivity with Day & Night (IR) function:
 0.5 lx (Color), 0.06 lx (B/W) at F1.6
- VIQS (Variable Image Quality on Specified area) technology allows the designated
 2 areas 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.

 VIQS can be set on preset position (1 to 8) and except preset.
- 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 16x) / OFF
- Selectable light control modes:
 Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter
 Indoor scene (50 Hz / 60 Hz): Flicker caused
 by fluorescent lightning will be automatically compensated.
- 360 degrees endless Panning
- Advanced auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken very smoothly on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control. 256 speeds available for system with WV-CU950 system controller.
- Up to 256 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.
- Industrial grade Pan / Tilt / Zoom mechanism for high reliability
- VMD (Video Motion Detection) with 4 programmable detection areas,
 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 32 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser

- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger
 actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification,
 Indication on browser, Alarm terminal output, and Panasonic alarm 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.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Rain wash coat dome cover
- Ambient Operating Temperature : -50 °C ~ +55 °C (-58 °F ~ 131 °F)
- Fog and Sandstorm compensation
- AEM (Auto Eyelid Mechanism) offers images that are more natural and easy to watch reducing doubled images when direction of the lens moved above the horizontal.

Standard Accessories

• CD-ROM*1				
The followings are for installation. • Protection Cover	. Code Label 2			

Optional Accessory

Wall Mount Bracket

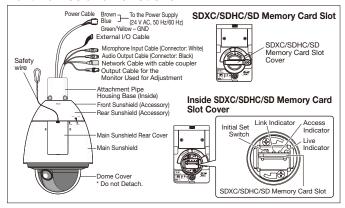
WV-Q122 / WV-Q122A (Launches in September 2013)

Camera	Image Ser	isor	Approx.1/3 type MOS Sensor
	Effective P	Pixels	Approx. 2.4 megapixel
	Scanning I		Progressive scan
	Scanning / Minimum I	Area Illumination	5.38 mm (H) x 3.02 mm (V) {7/32 inches(H) x 1/8 inches(V)} Color: 0.5 k, BW: 0.06 k (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High))
	White Bala	nco	Color: 0.03 lx, BW 0.004 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain:On(High))* AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)
	Light Cont		Outdoor scene: Automatic integration of ALC and ELC (up to 1/100 s Indoor scene) (50 Hz): Automatic integration of ALC and ELC (up to 1/100 s
			Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s Fix shutter
	Shutter Sp Super Dyn		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
		er Dynamic	ON / OFF (Only at Super Dynamic: ON)
		Black Stretch	ON / OFF (Only at Super Dynamic: OFF)
	Fog comp	ensation	ON / OFF
	AGC Electronic Sensitivity UP		ON (LOW, MID, HIGH) / OFF OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s)
	Day & Nigl Digital Noi	ht (IR) se Reduction	Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level:High / Low, with external control High / Low
	Video Mot Privacy Zo	ion Detection one	4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 8 zones / Up to 32 zones, Gray / Mosaic
	Image Stal	bilizer	ON / OFF Up to 2 zones at preset position 1-8 and except preset
	Double Im Camera Ti	age Reduction	ON / OFF Up to 20 characters (alphanumeric characters, marks)
	Focus dist	ance	Limited / Unlimited
Lens	Focal Leng		4.3 mm ~129.0 mm, 30x
	Zoom Rati Digital (Fle	ctrical) Zoom	30x / 90x with extra optical zoom (at 640x360) 12x (Max. 1080x combined with extra optical zoom at 640x360)
	Angular Fi	eld of View	H: 2.6° (TELE) ~ 64.6° (WIDE) V: 1.6° (TELE) ~ 38.2° (WIDE)
		Aperture Ratio	1 : 1.6 (WIDE) ~ 4.7 (TELE)
	Focusing F		2.0 m ~ ∞ F1.6 ~ Close
Pan and Tilt	Aperture F Panning R		360° endless
. un and Hil	Panning S		Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controlle
			Preset: up to approx. 300°/s
	Tilting Ran	ige	-15° ~ 195° (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable tilting angle: 0° / -5°/ -10° / -15
	Tilting Spe	ed	Manual: approx. 0.065% - 120%, Up to 256 steps (depending on the controlle Preset: up to approx. 300%.
	Proportiona	al Pan/Tilt Control	Yes
		Preset Positions	
	Auto Mode Image Hol		preset sequence / auto pan / auto track / patrol ON / OFF
		on Display	ON / OFF
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 mi
	Map Shot		360° map shot / preset map shot
Browser GUI	Camera C		Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode
	Display Mode Camera Title		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 Up to 20 alphanumeric characters
	Clock Disp		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 Memor	y Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
		Menu Language	English / Italian / French / German / Spanish / Russian / Chinese / Japanese
	System Lo	ıg	Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	Supported	OS *2 *3	Microsoft® Windows® 8, Microsoft® Windows® XP SP3 Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
	Supported	Browser	Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit)
Network	Note:		Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector
Network	Network IF Image	Image Capture Mode:	H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
	Resolution	2 mega pixel [16:9]	JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
		Image Capture Mode: 1.3 mega pixel [16:9]	H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
		Image Capture Mode:	H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps
	H 264 *4	1.3 mega pixel [4:3] Transmission Mode	JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps
	H.264 *4	Frame Rate	Constant bitrate / Frame rate priority / Best effort /Advanced VBR 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 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps
		Image Quality	LOW / NORMAL / FINE
		Refresh Interval	0.2/0.25/0.33/0.5/1/2/3/4/5s
		Transmission Type Image Quality	UNICAST / MULTICAST
	IDEC		10 steps 0.1 fps ~ 30 fps
	JPEG	Refresh Interval	
		Transmission Type	
	Audio Com	Transmission Type pression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection
	Audio Com	Transmission Type pression	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
	Audio Com	Transmission Type pression e tion for Audio	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection 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 / Unlimiter
	Audio Com Audio Mode Authenticat	Transmission Type pression e tion for Audio	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection OFF / Mic (Ling 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 / 2,045 / 4,096 / 8,192 kbps / Unlimited (Heit-TOPIP, UDPIP, HTTP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCP-6, ICMP, AR IPA-CTP/P, UDPIP, HTTP, HTTP, RTPS, RTP, RTP, RTPATCP-FTP, SMTP, DHCP, DNS, DNS
	Audio Com Audio Mode Authenticat Total Bit Ra	Transmission Type pression e tion for Audio tate Protocol	G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and sound detection 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 / Unlimite IPAC TOPIP, UDPIP, HTTP, HTTP, RTP, FTP, SMTP, DNS, MTP, SMMP, DHCPV6, (CMP, AF

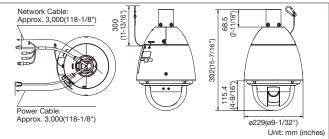
Network	SDXC/SDHC/SD Memory Card (Option)	H.264 recording (Audio recording is enable): Manual REC / Alarm REC (Pre/Post) / Schedule REC
		JPEG recording: Manual REC / Alarm REC (Pre/Post) / Backup upon
		network failure Compatible
		SD (SDHC/SDXC) card: Panasonic
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** mode
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Sound detection
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC / SDHC / SD memory card: 5,000 logs,
	· ······ == 9	without SDXC / SDHC / SD memory card: 1.000 logs
	Schedule	Alarm / VMD / Access permission / H.264 recording / Sound detection
Input/	Monitor Output	VBS : 1.0V[p-p] / 75Ω.
Output	(for adjustment)	NTSC / PAL composite, BNC Jack
Output	Microphone/Line Input	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
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level
	External I/O Terminals	ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT, ALARM IN 3 / AUX OUT
General	Safety/EMC Standard	<safety></safety>
General	,	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- <fmc></fmc>
		FCC Part15 Class A, ICES-003 Class A, EN55022 Class B, EN55024
	Power Source and	AC24 V : 3.5 A, 55 W
	Power Consumption	PoE+: 470 mA, 25 W (IEEE802.3at compliant)
		POE Injector (60 W) : 1.0 A, 50 W
	Ambient Operating	AC24 V and Tested PoE Injector (60 W): -50 °C ~ +55 °C (-58 °F ~ 131 °F) * with limitation:
	Temperature	POE+: -30°C ~ +55°C (-22 °F ~ 131 °F)
	Ambient Operating Humidity	
	Impact Protection	IEC 62262:2002 IK10 (Impact energy 20J)
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible
	Dimensions	ø229 mm x 392 mm(H) {ø9-1/32 inches x 15-7/16 inches(H)}
		diameter of the dome 160 mm(6-5/16 inches)
	Mass (approx.)	Approx. 5.0 kg { 11.04 lbs}
	Finish	Main body : Aluminum die cast, Natural silver
		Sunshields : ASA resin coating, Natural silver
		Dome section : Clear polycarbonate resin

^{*1} Converted value

Part Names and Functions



Appearance



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- 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.
 These products may be subject to export control regulations. All product pictures are NTSC models.

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¹ Converted vause
2 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® 1 or Microsoft® Windows® 7 or Microsoft® Windows® 1 or Microsoft® Windows® 2 or Microsoft® Windows® 3 or Microsoft® Windows® 3