WV-SW559 WV-SW558



Full HD / 1,920 x1,080 H.264 Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- 1,080p Full HD images up to 30 fps and 360p image up to 30fps simultaneously.
- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and 2 areas VIQS (Variable Image Quality on Specified area) function can decrease maximum 50%¹¹ network bandwidth.
- Cropping function enables to provide whole image (1,920 x 1,080) and the part image (640 x 360) simultaneously.
- Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier®".
- 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 F1.3 (WV-SW559)
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color), 0.3 lx (B/W) at F1.3 (WV-SW558)
- Using Panasonic distinctive LDC (Lens Distortion Compensation) function, natural image without distortion can be monitored though using wide angle lens.
- ABF (Auto Back Focus) ensures easy installation.
- ABF ensures stable focus in both color and B/W modes. (WV-SW559)
- 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.
- Superior color reproduction by primary (RGB) color filter.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC / Fixed electronic shutter Outdoor scene: Electronic shutter and ALC lens iris control are automatically

controlled depending on the mode and luminance level.

Indoor scene (50 Hz / 60 Hz): Flicker caused by fluorescent lightning will be automatically compensated.

ELC: Up to 1/10,000 Electronic shutter is automatically applied for a fix iris lens.

Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.

- 3x Extra optical zoom at 360p resolution. (Picture Mode: 2 Mega pixel [16:9])
- VMD (Video Motion Detection) 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 video stream.

- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- 2x. 4x digital zoom controlled by browser.
- 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(WV-SW559), 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. (WV-SW559)
- 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) (WV-SW559)
- 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 the Internet.
- Onvif compliant model
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Vandal resistant mechanism for high reliability
- 2.8 ~ 10.0 mm, 3.6x Varifocal Auto Iris Lens
- *1 Compared with WV-NP502. Reduction effect may vary depending on object and image quality setting conditions.

Standard Accessories

Standard Accessories	
Installation Guide	Fixing screws (M4 x 8 mm)

Optional Accessories

Ceiling Mount Bracket
WV-Q169

Smoke Dome Cover



Specifications

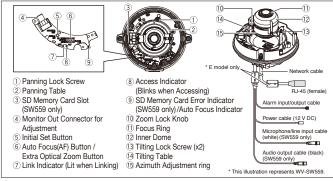
Speci			NTSC		
			NTSC PAL		
Camera	Image S		1/3 type MOS Sensor		
	Effective	Pixels	Approx. 3.1 megapixel		
	Scanning	g Mode	Progressive scan		
	Scanning		4.51 mm (H) x 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}		
		n Illumination	WV-SW559:		
	IVIIIIIIIIIIII	i iliumination	Color: 0.5 lx, BW: 0.06 lx (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High		
	White Balance Light Control Mode Shutter Speed Super Dynamic Dynamic Range Face Super Dynamic Adaptive Black Stretch AGC		Color: 0.03 lx, BW 0.004 lx (F1.3, Auto slow shutter: Max. 16/30s, Gain:On(High)) WV-SW558: Color: 0.5 lx, BW: 0.3 lx (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High)		
			Color. 0.03 lx, BW 0.02 lx (F1.3, 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) Outdoor scene: Automatic integration of ALC and ELC 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		
			ELC: (up to 1/10,000 sec.) 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		
			52 dB typ. (Super Dynamic: ON, Light Control Mode: indoor) ON / OFF (Only at Super Dynamic: ON)		
			ON / OFF (Only at Super Dynamic: OFF) ON (LOW, MID, HIGH) / OFF		
	Electroni	ic 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		WV-SW559: IR Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control WV-SW558: Electrical		
	Digital N	oise Reduction	Mode: OFF / AUTO High / Low		
	Video M	otion Detection	4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy 2		Up to 2 zones, Gray		
	Upside [Jown	ON / OFF		
	VIQS		Up to 2 zones		
		Title (OSD)	Up to 20 characters (alphanumeric characters, marks)		
	Focus A	djustment	ABF/MANUAL		
	Lens Disto	rtion Compensation	256 steps		
Lens	Focal Le	ngth	2.8 mm - 10 mm, 3.6x (8.4 mm - 30 mm 10.8x with Extra optical zoom (at 360P		
	Angular Field of View ²		H: 24.2 °(TELE) ~ 86.6 °(WIDE) V: 13.50°(TELE) ~ 47.57°(WIDE)		
	Maximum Aperture Ratio		1:1.3 (WIDE) ~ 1:3.0 (TELE)		
	Focusing		0.3 m ~ ∞		
Adjusting		,g -	Horizontal: 180 ° (clockwise), 160 ° (counterclockwise),		
,			Vertical: ±75 °, Image tilt adjustment range: ±100 °		
Browser	Cropping	7	H.264(2) / JPEG(VGA or 640 x 360) / JPEG(QVGA or 320 x 180		
GUI	Cropping	9	Up to 4 image capture areas can be specified		
aoi	Camera Control		Brightness, AUX ON / OFF, Zoom (1x, 2x 4x)		
	Display I		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	Display I	viode			
	D:-:4-1.7		screens or 16 split screen (JPEG only). 20 characters camera title available		
	Digital Z		1x, 2x, 4x controlled by browser GUI		
	Camera Title		Up to 20 alphanumeric characters		
	Clock Di	splay	Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua		
	Alarm Co	ontrol	Reset		
	One Sho	t 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 (Only at WV-SW559		
		ry Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. (Only at WV-SW55		
	GUI/Setup	Menu Language	English, Japanese, Italian, French, German, Spanish, Chinese, Russian		
	System I	Log	Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs (Only at WV-SW55		
	Support	ed OS *3 *4	Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP		
			Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit		
	Supported Browser		Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3		
Network	Network	IF			
WUIK			10Base-T / 100Base-TX, RJ-45 connector		
	Image	Image Capture Mode:			
	nesolution		JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps		
			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 fp:		
			H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp		
		1.3 mega pixel [4:3]			
			H.264: 1,280 x 960, up to 15 fps		
		3 mega pixel [4:3]	JPEG (MJPEG): 2,048 x1,536, up to 15 fps		
	H.264 *5	Transmission Mode	Constant bitrate / Framerate priority / Best effort		
		Frame Rate	1/3/5/7.5/12/10/15/20/30 fps		
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072		
			4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps		
		Image Quality	LOW / NORMAL / FINE		
			0.2/0.25/0.33/0.5/1/2/3/4/5s		
			UNICAST / MULTICAST		
	JPEG	Image Quality	10 steps		
		Refresh Interval	0.1 fps ~ 30 fps		
		Transmission Type			
	Audio Compre		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	Audio Compression *Only at WV-SW559 Audio Mode *Only at WV-SW559		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex		
		or Audio *Only at WV-SW559	Level 1 only / Level 2 higher / All users		
	Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite		
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6,ICMP,ARI IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS JTTD, SNMP, UDPS (JCMP, JCMP, ARD)		
	FTP Client		NTP, SMMP, UPnP,IGMP,ICMP,ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed backup, or a notional STXC/SDHC/SD memory card is qualitable. 1). "Column the STX STXC STXC STXC STXC STXC STXC STXC		
	No -t C	multanaar:- II-	backup on an optional SDXC/SDHC/SD memory card is available. *) *Only at WV-SW55		
		nultaneous Users	Up to 14 users (Depends on network conditions)		
SDXC/SDHC/SD			H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	Memory	Card (Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatib		
		WV-SW559	SD (SDHC/SDXC) card: Panasonic 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** mod		
	1		*SDHC card, ** SDXC card (except miniSD card and microSD card		
	Cellular Ph	none Compatibility	JPEG image		
	1				

DISTRIBUTED BY:

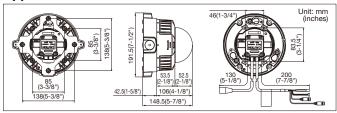
TV Systen	n	NTSC	PAL	
Network	Mobile Terminal Compatibility'6	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals		
	Face Detection	ON / OFF (with XML notification)		
Alarm	Alarm Source	WV-SW559		
		3 terminals input, VMD, Comm	and alarm	
		WV-SW558		
		1 terminal input, VMD, Command alarm		
	Alarm Actions	SDXC/SDHC/SD memory recording*, E-mail notification, Indication or		
		browser, FTP image transfer, Panasonic protocol output *Only at WV-SW55		
	Alarm Log	With SDXC/SDHC/SD memory card*: 5,000 logs,		
		without SDXC/SDHC/SD memory card: 1000 logs *Only at WV-SW55 Alarm / VMD / Access permission / H.264 recording		
	Schedule			
Input/	Monitor Output	VBS: 1.0 V [p-p]/75 Ω,	VBS: 1.0 V [p-p]/75 Ω,	
Output	(for adjustment)	NTSC composite, RCA Jack	PAL composite, RCA Jack	
Microphone/Line Inpo		MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack		
	*Only at WV-SW559	(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		
	*Only at WV-SW559	, , , , , ,		
	External I/O Terminals	WV-SW559		
		ALARM IN 1/DAY/NIGHT IN, ALARM IN 2/ALARM OUT, ALARM IN 3/AUX OUT		
		WV-SW558		
General	Safety/EMC Standard	ALARM IN, ALARM OUT, AUX OUT UL (UL60950-1), FCC (Part15 ClassA), CE, IEC60950-1		
General	Salety/Elvic Staridard	C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
		DOC (ICES003 ClassA)	(ENSSUZZ CIASSB, ENSSUZ4)	
	Power Source and	WV-SW559		
	Power Consumption	12V DC: 850 mA *, PoE (IEEE802.3af compliant) / PoE 48 V: 180 mA (Class 0 device		
	T Ower Condamption	WV-SW558		
		12V DC: 830 mA *, PoE (IEEE802.3af compliant) / PoE 48 V: 175 mA (Class 0 device)		
		* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.		
	Ambient Operating Temperature	-40 °C ~ +50 °C (-40 °F ~ 122 °F)		
	Ambient Operating Humidity	Less than 90 % (no condensation)		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
	Shock Resistance	Compliant with 50 J (IEC 60068-2-75)/IK10 (IEC 62262)		
	Dimensions	ø164 mm x 146 mm (H) x 191.5 mm (W)		
		{ø6-15/32 inches x 5-3/4 inches (H) x 7-17/32 inches (W)} (Base Cover)		
	Mass (approx.)	1.6 kg (3.53 lbs)		
	Finish	Main body: Aluminum die cast, light gray,		
	1	Dome section: Clear polycarbonate resin		

- **1 Converted value
 **2 If **1.3 megapixel [4:3]* is selected for the imaging mode, the viewing angle will become narrower.
 3 Refer to **Notes on Windows Vista / Windows* 7* on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft* Windows* 7 or microsoft* Windows Vista*.
 **4 When using IPV6 for communication, use Microsoft* Windows* 7 or Microsoft* Windows Vista*.
 **5 Transmission for 2 streams can be individually set in the same compression method.
 **6 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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 Safety Precaution: carefully read the operating instructions and installation manual before using this product.

 Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

 All TV pictures are simulated.

 Masses and dimensions are approximate.

 Specifications are subject to change without notice.

- 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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http://panasonic.net/security/

