Panasonic

Super Dynamic Full HD Vandal Resistant Dome Network Camera

WV-SF549 WV-SF548



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.
- 1080p 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.
- Picture in picture function: A cropping image or an alarm image can be added to an image and transmitted.
- 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-SF549)
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color), 0.3 lx (B/W) at F1.3 (WV-SF548)
- 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-SF549)
- 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) / 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.

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
- 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-SF549), 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-SF549)
- 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
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG) (WV-SF549)
- 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
- · Vandal resistant mechanism for high reliability
- 2.8 ~ 10.0 mm, 3.6x Varifocal Auto Iris Lens
- Fog compensation
- *1 Compared with WV-NP502. Reduction effect may vary depending on object and image quality setting conditions.

Standard Accessories

Optional Accessories

Mount Bracket
WV-Q105



Specifications

Camera	Image O	oncor	1/2 type MOS Sensor	
	Image S		1/3 type MOS Sensor	
	Effective Pixels		Approx. 3.1 megapixel	
	Scanning Mode		Progressive scan	
	Scanning Area		4.51 mm (H) x 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}	
	Minimum Illumination		WV-SF549:	
	Ivillininan	marmination	Color: 0.5 lx, BW: 0.06 lx (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High	
	White Delance			
			Color: 0.03 lx, BW 0.004 lx (F1.3, Auto slow shutter: Max. 16/30s, Gain:On(High))	
			WV-SF548:	
			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))	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K	
	Light Control Mode		Outdoor scene: Automatic integration of ALC Indoor scene [50 Hz]: Automatic integration of ALC (up to 1/100 s Indoor scene [60 Hz]: Automatic integration of ALC (up to 1/120 s	
	01 11 (Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120,	
	Shutter 9	Speed		
	Super Dynamic		1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic Of ON / OFF	
	Dynamic Range		52 dB typ. (Super Dynamic: ON)	
	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	
	Day & Ni	ght	WV-SF549: IR	
			Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control	
			WV-SF548: Electrical	
	Digital Noise Reduction			
			Mode: OFF / AUTO High / Low	
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone		Up to 2 zones, Gray	
	Upside Down		ON / OFF	
	VIQS		Up to 2 zones	
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)	
	Focus Adjustment		ABF/MANUAL	
	Lens Distortion Compensation		256 steps	
Lone				
Lens	Focal Length		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) ~ 80.6 °(WIDE) V: 13.50°(TELE) ~ 47.57°(WIDE	
	Maximum Aperture Ratio		1: 1.3 (WIDE) ~ 1: 3.0 (TELE)	
	Focusing Range		0.3 m ~ ∞	
		j i idingo	Horizontal: 180 ° (clockwise), 170 ° (counterclockwise),	
Aujusting	Adjusting Angle			
			Vertical: ±75 °, Image tilt adjustment range: ±100 °	
Browser	Cropping	j .	H.264(2) / JPEG(VGA or 640 x 360) / JPEG(QVGA or 320 x 180	
GUI			Up to 4 image capture areas can be specified	
	Camera	Control	Brightness, AUX ON / OFF, Zoom (1x, 2x 4x)	
	Display I	vloae	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 Z	oom	1x, 2x, 4x controlled by browser GUI	
			Up to 20 alphanumeric characters	
	Camera Title			
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua	
	Alarm Control		Reset	
	One Sho	t Capture	A still picture will be displayed on a newly opened window.	
	One Shot Capture Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High	
	Audio			
			Audio Output: ON / OFF Volume adjustment: Low / Middle / High (Only at WV-SF549)	
	SD Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. (Only at WV-SF549	
			English, Japanese, Italian, French, German, Spanish, Chinese, Russiar	
		n Menu Language		
	GUI/Setup	Menu Language	Up to 100 (Internal) Up to 4 000 (SDYC/SDHC/SD memory	
			Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory	
	GUI/Setup System I	Log	when the recording format is set to JPEG.) error logs (Only at WV-SF549)	
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	System I	Log	when the recording format is set to JPEG.) error logs (Only at WV-SF549 Microsoft® Windows® 8.Microsoft® Windows® 7, Microsoft® Windows Vsta®, Microsoft® Windows® XP SP Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit),	
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	System I Supporte Supporte	ed OS *3 *4 ed Browser	when the recording format is set to JPEG.) error logs (Only at WV-SF549 Microsoft Windows 8 Microsoft Windows 7. Microsoft Windows Vista Microsoft Windows XP SR Windows Internet Explorer 10.0 (32 bit), Windows Internet Explorer 9.0 (32 bit), Windows Internet Explorer 8.0 (32 bit), Windows Internet Explorer 7.0 (32 bit), Microsoft Internet Explorer 6.0 SP3	
Network	System I	ed OS *3 *4 ed Browser	when the recording format is set to JPEG.) error logs (Only at WV-SF549 Microsoft Windows? A Microsoft Windows? A Microsoft Windows? A Start Microsoft Windows? A Start Microsoft Windows? A Start Microsoft Windows? Internet Explore* 0.0 (32 bit), Windows* Internet Explore* 0.0 (32 bit), Windows* Internet Explore* 7.0 (32 bit), Windows* Internet Explore* 8.0 (32 bit), Windows* Internet Explore* 9.0 (32 bit), Windows* 9.0 (32 bit)	
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TV System		NTSC	PAL	
Network	Mobile Terminal Compatibility's	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals		
Alarm	Alarm Source	WV-SF549		
		3 terminals input, VMD, Command alarm		
		WV-SF548		
		1 terminal input, VMD, Command alarm		
	Alarm Actions	SDXC/SDHC/SD memory recording*, E-mail notification, Indication on		
		browser, FTP image transfer, Panasonic protocol output *Only at WV-SF549		
	Alarm Log	With SDXC/SDHC/SD memory card*: 5,000 logs,		
		without SDXC/SDHC/SD memory card: 1000 logs *Only at WV-SF549		
	Schedule	Alarm / VMD / Access permission / H.264 recording		
Input/	Monitor Output	VBS: 1.0 V [p-p]/75 Ω,	VBS: 1.0 V [p-p]/75 Ω,	
Output	(for adjustment)		PAL composite, RCA Jack	
	Microphone/Line Input	MIC IN and Line IN are selectab	ole. ø3.5 mm stereo mini jack	
	*Only at WV-SF549	(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-SF549			
	External I/O Terminals	WV-SF549		
		ALARM IN 1/DAY/NIGHT IN, ALARM IN 2/ALARM OUT, ALARM IN 3/AUX OUT		
		WV-SF548		
		ALARM IN 1, ALARM OUT, AUX OUT		
General	Safety/EMC Standard	UL (UL60950-1), FCC (Part15 ClassA),		
		C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
		DOC (ICES003 ClassA)		
	Power Source and	WV-SF549		
	Power Consumption	12V DC: 530 mA *, PoE (IEEE802.3af compliant) / PoE 48 V: 120 mA (Class 2 device)		
		WV-SF548		
		12V DC: 510 mA *, PoE (IEEE802.3af compliant) / PoE 48 V: 115 mA (Class 2 device)		
		* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.		
	Ambient Operating Temperature	-10 °C ~ +50 °C (14 °F ~ 122 °F)		
	Ambient Operating Humidity	Less than 90 % (no condensation)		
	Shock Resistance Compliant with 20J IEC60068-2-75/ IEC 62262 IK1			
	Dimensions	ø132 mm x 102.5 mm (H) {ø5-3/16 inches x 4-1/32 inches (H)}		
	Mass (approx.)	710g (1.57 lbs)		
	Finish	Main body: Aluminum die cast, sail white		
*1 Convert		Dome section: Clear polycarbonate resin		

- **1 Converted value

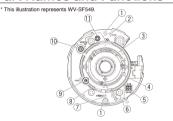
 **2 If "1.3 megapixel [4:3]" is selected for the imaging mode, the viewing angle will become narrower.

 3 Refer to "Notes on Windows Vista" / Windows" 7 / 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 "8 or Microsoft* Windows Vista".

 4 When using IPv6 for communication, use Microsoft Windows* 8 or Microsoft* Windows* 7 or Microsoft* Windows Vista*.

- Transmission for 2 streams can be individually set in the same compression method.
 For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions





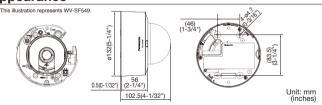
16 Tilting Lock Screw

7 Zoom Lock Knob

External I / O Terminals

- Dome Cover Fixing Screw Hole
 Direction Marker for Installation
- 3 Azimuth Adjustment Ring
- 4 Tilting Table 5 12 V DC Power Supply
- Terminal
- Support Wire for Installation Direction Marker for Installation
- Panning Table
- 9 Panning Lock Screw [LOCK]
 10 Monitor Out Connector
 15 Focus Ring
 16 Tilting Lock
- for Adjustment (RCA Jack)
- 1 Monitor Out Connector for Service
- 12 Audio Output Connector (3) Microphone / Line Input
- Connector Network Connector

Appearance



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 Safety Precaution: Carefully read the operating instructions and installation manual before using this product.

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