Super Dynamic Full HD Dome Network Camera

WV-SF539 WV-SF538



Full HD / 1,920 x1,080 H.264 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.

Panasonic

- Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and 2 areas VIQS (Variable Image Quality on Specified area) function can decrease maximum 50%" 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-SF539)
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color), 0.3 lx (B/W) at F1.3 (WV-SF538)
- 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-SF539)
- 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-SF539), 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-SF539)
- 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-SF539)
- 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 • 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

- Installation Guide
- · Installation Template Label .. • CD-ROM*1...... 1 pc.
- Code Label*2 1 pc.
- The followings are for installation.
- 2 pcs. (incl. 1 spare) Cable Tie

. 1 pc.

- *1 The CD-ROM contains the operating instructions (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 Accessories



Specifications

Camera	n Image Sensor		1/3 type MOS Sensor	
Jamera	Effective Pixels			
	Scanning Mode		Approx. 3.1 megapixel 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-SF539: Color: 0.5 lx, BW: 0.06 lx (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High	
			Color: 0.3 x, BW. 0.06 x (F1.3, Auto slow shutter: Max. 16/30s, Gain:On(High) Color: 0.03 k, BW 0.004 k (F1.3, Auto slow shutter: Max. 16/30s, Gain:On(High) WV-SF538: Color: 0.5 k, BW: 0.3 k (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High)	
	White Balance		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)	
	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)	
	Shutter Speed		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 Ot	
	Super Dynamic Dynamic Range		ON / OFF 52 dB typ. (Super Dynamic: ON)	
	Face Super Dynamic Adaptive Black Stretch AGC		ON / OFF (Only at Super Dynamic: ON) ON / OFF (Only at Super Dynamic: OFF) ON (LOW, MID, HIGH) / OFF	
	Electronic Sensitivity UP Day & Night		OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s) WW-SF539: IR Mode: AUTO1 / AUTO2 / ON / OFF, Level:High / Low, with external control WV-SF538: Electrical	
	Digital Noise Reduction		Mode: OFF / AUTO High / Low	
	Privacy Zone		4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 2 zones, Gray	
	Upside Down VIQS		ON / OFF Up to 2 zones	
	Camera Title (OSD) Focus Adjustment Lens Distortion Compensation		Up to 20 characters (alphanumeric characters, marks) ABF/MANUAL 256 steps	
Lens	Focal Le		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°(WIDI	
	Maximum Aperture Ratio		1 : 1.3 (WIDE) ~ 1 : 3.0 (TELE)	
	Focusing Range		0.3 m ~ ∞	
Adjusting			Horizontal: 180 ° (clockwise), 170 ° (counterclockwise), Vertical: ±75 °, Image tilt adjustment range: ±100 °	
Browser GUI	Cropping		H.264(2) / JPEG(VGA or 640 x 360) / JPEG(QVGA or 320 x 18) Up to 4 image capture areas can be specified Brightness, AUX ON / OFF, Zoom (1x, 2x 4x)	
	Camera Control Display Mode Digital Zoom		Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua screens or 16 split screen (JPEG only). 20 characters camera title available	
			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 (Manu-	
	Alarm Control		Reset	
	One Shot Capture Audio		A still picture will be displayed on a newly opened window. Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / Higl Audio Output: ON / OFF Volume adjustment: Low / Middle / High (Only at WV-SF33)	
	SD Memory Data Download GUI/Setup Menu Language System Log		Sill or motion images recorded in the SDXCSDHCSD memory card can be downloaded. (Dnly at WV-SF32 English, Japanese, Italian, French, German, Spanish, Chinese, Russia 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-SF33	
	Supported OS *3 *4 Supported Browser		Microsoft [®] Windows [®] 8, Microsoft [®] Windows [®] 7, Microsoft [®] Windows [®] Vista [®] , Microsoft [®] Windows [®] N Exporter [®] 9.0 (32 bit), Windows [®] Internet Explorer [®] 9.0 (32 bit), Windows [®] Internet Explorer [®] 9.0 (32 bit), Windows [®] Internet Explorer [®] 7.0 (32 bit), Windows [®] 7.0 (32 bit), Windows [®] Internet Explorer [®] 7.0 (32 bit), Windows [®] 7.0	
Mahwark			Microsoft® Internet Explorer® 6.0 SP3	
Network	Network Image Resolution	Image Capture Mode: 2 mega pixel [16:9]	10Base-T / 100Base-TX, RJ-45 connector H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fp	
		1.3 mega pixel [16:9] Image Capture Mode:	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 JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp	
	H.264 *5	Image Capture Mode: 3 mega pixel [4:3]		
		Frame Rate	1/3/5/7.5/12/10/15/20/30 fps 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 Refresh Interval	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
		Transmission Type	UNICAST / MULTICAST	
	JPEG	Image Quality Refresh Interval	10 steps 0.1 fps ~ 30 fps	
	Audio Compre	Transmission Type ssion *Only at WV-SF539		
	Audio Mode *Only at WV-SF539		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duple	
			Level 1 only / Level 2 higher / All users	
	Total Bit Rate Supported Protocol		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6,ICMP,AF IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS	
	FTP Client		Invest Local Control Contro	
	No. of Simultaneous Users		backup on an optional SDXC/SDHC/SD memory card is available. *) *Only at WV-SF53	
	SDXC/SDHC/SD Memory Card (Option)		H264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule RE JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatiti	
	Innennory	σαια (Ομιίοπ)	SD (SDHC/SDXC) card: Panasonic 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** mod	

DISTRIBUT	ED BY:
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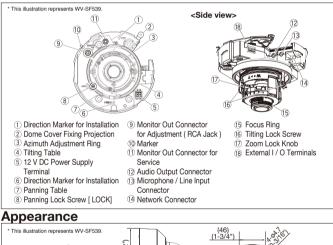
TV System		NTSC	PAL
Network Mobile Terminal Compatibility'6		iPad, iPhone, iPod touch (iOS 4.2.1	or later), Android [™] mobile terminals
Alarm	Alarm Source	WV-SF539	
		3 terminals input, VMD, Command alarm	
		WV-SF538	
		1 terminal input, VMD, Command alarm	
	Alarm Actions	SDXC/SDHC/SD memory recording*, E-mail notification, Indication on	
		browser, FTP image transfer, Panasonic protocol output *Only at WV-SF539	
	Alarm Log	With SDXC/SDHC/SD memory card*: 5,000 logs,	
		without SDXC/SDHC/SD memory card: 1000 logs *Only at WV-SF539	
	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)	NTSC composite, RCA Jack	PAL composite, RCA Jack
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack	
	*Only at WV-SF539	(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-SF539		
	External I/O Terminals	WV-SF539	
		ALARM IN 1/DAY/NIGHT IN, ALARM IN 2/ALARM OUT, ALARM IN 3/AUX OUT	
		WV-SF538	
		ALARM IN , 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-SF539	
	Power Consumption	12V DC: 530 mA*, PoE (IEEE802.3af compliant) / PoE 48 V: 120 mA (Class 2 device)	
		WV-SF538	
		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		
	Ambient Operating Humidity	Less than 90 % (no condensation)	
	Dimensions	ø129.5 mm x 93 mm (H) {ø5-1/8 inches x 3-11/16 inches (H)}	
	Mass (approx.)	450 g (0.99 lbs)	
	Finish	Main body: ABS resin, sail white	
		Dome section: Clear acrylic resin	

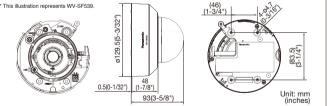
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*4 When using IPv6 for communication, use Microsoft® Windows® 4sd
 *5 Transmission for 2 streams can be individually set in the same compression method.

*6 For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions





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 Safety Precaution: Carefully read the operating instructions and installation manual before using this product.
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 - All TV pictures are simulated.
 Masses and dimensions are approximate.
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