

### Super Dynamic Full HD Dome Network Camera

# **WV-SF539 WV-SF538**

#### **Preliminary**



## 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.
- 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) / 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-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
- \*1 Compared with WV-NP502. Reduction effect may vary depending on object and image quality setting conditions.

#### Standard Accessories

- Installation Guide ...... .... 1 pc. CD-ROM<sup>\*1</sup>
- Code Label\*2
- \*1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs. Power Cord Plug ...... 1 pc.
   External I/O Terminal Plug....... 1 pc.

• Installation Template Label .

· Cable Tie ..

\*2 This label may be required for network management

. 1 pc

... 2 pcs. (incl. 1 spare)

The network administrator shall retain the code label.

#### **Optional Accessories**

The followings are for installation.



#### Specifications

**DISTRIBUTED BY:** 

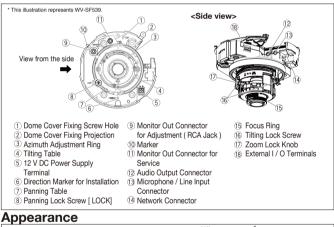
Camera	n		
	Image Sensor		1/3 type MOS Sensor
	Effective Pixels		Approx. 3.1 megapixel
	Scanning Mode		Progressive scan
	Scanning Area		4.51 mm (H) x 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}
	Minimum Illumination		WV-SF539:
			Color: 0.5 lx, BW: 0.06 lx (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High)
			Color: 0.03 lx, BW 0.004 lx (F1.3, Auto slow shutter: Max. 16/30s, Gain:On(High)) '
			WV-SF538:
			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 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 1/100 s
			ELC: (up to 1/10,000 sec.)
	Shutter Speed		Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120,
	Shutter Speed		
	Our en Dur ensis		1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic Of
	Super Dynamic		ON / OFF
	Dynamic Range		52 dB typ. (Super Dynamic: ON, Light Control Mode: indoor)
	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 & Night Digital Noise Reduction		WV-SF539: IR
			Mode: AUTO1 / AUTO2 / ON / OFF, Level:High / Low, with external control
			WV-SF538: Electrical
			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 Conpensation		256 steps
Lens			2.8 mm - 10 mm, 3.6x (8.4 mm - 30 mm 10.8x with Extra optical zoom (at 360P)
Lens	Focal Length		H: 24.2 °(TELE) ~ 80.6 °(WIDE)
	Angular Field of View <sup>2</sup> Maximum Aperture Ratio		
			1 : 1.3 (WIDE) ~ 1 : 3.0 (TELE)
A	Focusing Range		0.3 m ~ ∞
Adjusting	Angle		Horizontal: 180 ° (clockwise), 170 ° (counterclockwise),
			Vertical: ±75 °, Image tilt adjustment range: ±100 °
Browser	Croppin	g	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 Mode		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 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 (Manua
	Alarm Control		Reset
	One Shot Capture		
	One Sho	ot Capture	A still picture will be displayed on a newly opened window.
		ot Capture	A still picture will be displayed on a newly opened window. Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High
	One Sho Audio	ot Capture	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High (Only at WV-SF539)
	Audio SD Memo	ory Data Download	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High (Only at WV-SF539) Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. (Only at WV-SF538
	Audio SD Memo GUI/Setu	ory Data Download p Menu Language	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High (Only at WV-SF339) Sil or motion mages recorded in the SDXCSDHCSD memory card can be domicable. (Only at WV-SF338 English, Japanese, Italian, French, German, Spanish, Chinese, Russian
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	Audio SD Memo GUI/Setu System Support	ory Data Download p Menu Language Log	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Sill or moton images recorded in the SDXCSDHCSD memory card can be downloaded. (Only at WK-SF339 English, Japaneses, Italian, French, German, Spanish, Chinese, Russian Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs (Only at WK-SF339 Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> XPSF39 Windows <sup>®</sup> Internet Explorer <sup>a</sup> 8.0 (32 bit), Windows <sup>®</sup> Internet Explorer <sup>a</sup> 8.0 (32 bit)
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Network	Audio SD Memo GUI/Setu System Support Support Network Image	Py Data Download p Menu Language Log ed OS <sup>+3 +4</sup> ed Browser : IF Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [46:9] Image Capture Mode:	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (M) at WV-SF339 Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (M) at WV-SF339 Bincrosoft "Mindows" 1, Microsoft "Mindows "Internet Explore" Ao (32 bill Microsoft "Mindows" 1, Microsoft "Mindows" Internet Explore" Ao (32 bill Windows" Internet Explorer" 3.0 (32 bill, Windows" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Windows" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows " Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows " Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill H.264: 1,920 x 1,080 / 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp JPEG (MJPEG): 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 JPEG (MJPEG): 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 JPEG MJPEG): 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 JPEG MJPEG): 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 JPEG MJPEG): 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 JPEG MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp JPEG MJPEG): 1,28
Network	Audio SD Memc GUI/Setu System Support Support Network Image Resolution	rry Data Download p Menu Language Log ed OS <sup>+3 +4</sup> ed Browser IF Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3]	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Sill omotion Image recorded in the SUXCSIH2SD memory card care be domicable. (Migi 4W-SF539) Sill omotion Images recorded in the SUXCSIH2SD memory card care be domicable. (Migi 4W-SF539) English, Japanese, Italian, French, German, Spanish, Chinese, Russiar Up to 100 (Internet) Up to 4,000 (SDXC/SDHO/SD memory when the recording format is set to JPEc), error logs (Only at WV-SF539) Microsoft* Windows* 7, Microsoft* Mindows Vista*, Microsoft* Windows* 74 SP. Windows* Internet Explorer* 0.0 (32 bit), Windows* Internet Explorer* 8.0 (32 bit) Windows* Internet Explorer* 7.0 (32 bit), Microsoft* Internet Explorer* 8.0 (32 bit) DBase-T / 100Base-TX, RJ-45 connector H.264: 1,280 x 700 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 7.00 / 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 JPEG (MJPEG): 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 JPEG (MJPEG): 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 JPEG (MJPEG): 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 JPEG (MJPEG): 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 JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp
Network	Audio SD Memo GUI/Setu System Support Support Network Image	rry Data Download p Menu Language Log ed OS <sup>+3 +4</sup> ed Browser IF Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3]	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (M) at WV-SF339 Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (M) at WV-SF339 Bincrosoft "Mindows" 1, Microsoft "Mindows "Internet Explore" Ao (32 bill Microsoft "Mindows" 1, Microsoft "Mindows" Internet Explore" Ao (32 bill Windows" Internet Explorer" 3.0 (32 bill, Windows" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Windows" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows" Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows " Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill Windows " Internet Explorer" 7, 0 (32 bill, Microsoft" Internet Explorer" Ao (32 bill H.264: 1,920 x 1,080 / 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp JPEG (MJPEG): 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 JPEG (MJPEG): 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 JPEG MJPEG): 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 JPEG MJPEG): 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 JPEG MJPEG): 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 JPEG MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp JPEG MJPEG): 1,28
Network	Audio SD Memc GUI/Setu System Support Support Network Image Resolution	Py Data Download p Menu Language Log ed OS <sup>+3 +4</sup> ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Frame Rate	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (Joyi 4W-SF33) Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (Joyi 4W-SF33) English, Japanese, Italian, French, German, Spanish, Chinese, Russiai 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) Microsoft" Windows <sup>®</sup> 17. Microsoft" Windows Vista <sup>®</sup> , Microsoft" Windows <sup>®</sup> 17. Microsoft" Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7.0 (32 bil), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 6.0 SP 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): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(220 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(220 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps Constant bitrate / Framerate priority / Best effort 1 / 3 / 5 / 7.5 / 12 / 10 / 15 / 20 / 30 fps
Network	Audio SD Memc GUI/Setu System Support Support Network Image Resolution	Py Data Download p Menu Language Log ed OS <sup>+3 +4</sup> ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Frame Rate	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Bill motion Images records in the SUCSHCSD memory card are boundaack (Onju 41W-SF33 English, Japanese, Italian, French, German, Spanish, Chinese, Russiai Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs (Onju 41W-SF53 Microsoft* Windows* 7, Microsoft* Windows* Internet Explorer* 8.0 (32 bill Windows* Internet Explorer* 0.1 (23 bill, Windows* Internet Explorer* 8.0 (32 bill) Windows* Internet Explorer* 0.1 (23 bill), Windows* Internet Explorer* 6.0 SP 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 fps JPEG (MJPEG): 1,220 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,220 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,220 x 720 / 640 x 480 / QVGA(320 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 720 / 640 x 480 / QVGA(320 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 720 / 640 x 480 / QVGA(320 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 820 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps
Network	Audio SD Memc GUI/Setu System Support Support Network Image Resolution	Py Data Download p Menu Language Log ed OS <sup>+3 +4</sup> ed Browser IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Frame Rate	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (Joyi 4W-SF33) Bill motion Images records in B SUCSDH2SD memory card are boundeadd. (Joyi 4W-SF33) English, Japanese, Italian, French, German, Spanish, Chinese, Russiai 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) Microsoft" Windows <sup>®</sup> 17. Microsoft" Windows Vista <sup>®</sup> , Microsoft" Windows <sup>®</sup> 17. Microsoft" Windows <sup>®</sup> Internet Explorer <sup>®</sup> 7.0 (32 bil), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 6.0 SP 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): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fp JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(220 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(220 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps Constant bitrate / Framerate priority / Best effort 1 / 3 / 5 / 7.5 / 12 / 10 / 15 / 20 / 30 fps
Network	Audio SD Memc GUI/Setu System Support Support Network Image Resolution	ry Data Download p Menu Language Log ed OS *3 *4 ed Browser IF Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Bill motion Images records in the SUCSHCSD memory card are boundaack (Joya 14W-SF33 English, Japanese, Italian, French, German, Spanish, Chinese, Russiau 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-SF53 Microsoft* Windows* 7, Microsoft* Windows* Internet Explorer* 8.0 (32 bill Windows* Internet Explorer* 0.0 (23 bill, Windows* Internet Explorer* 8.0 (32 bill Windows* Internet Explorer* 0.0 (23 bill, Windows* Internet Explorer* 8.0 (32 bill) Windows* Internet Explorer* 0.0 (23 bill, Windows* Internet Explorer* 8.0 (32 bill) Microsoft* Windows* 7, RJ-45 connector H.264: 1,280 x 1080 / 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 JPEG (MJPEG): 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) / VGA(320 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 720 / 640 x 380 / 200 x 180, up to 30 fp JPEG (MJPEG): 1,280 x 720 / 640 x 380 / 320 x 180, up to 30 fp JPEG (MJPEG): 1,280 x 720 / 640 x 380 / 320 x 180, up to 30 fp JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / VGA(320 x 240), up to 30 fp JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort 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 / 1,238 k hps
Network	Audio SD Memc GUI/Setu System Support Support Network Image Resolution	ry Data Download p Menu Language Log ed OS * <sup>3 *4</sup> ed Browser (IF Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3]	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Bill motion Images records in the SUCSHCSD memory card are boundeaded. (Ong 40K-953 Bill motion Images records in the SUCSHCSD memory card are boundeaded. (Ong 40K-953 Microsoft <sup>®</sup> Windows <sup>®</sup> 7, Microsoft <sup>®</sup> Windows <sup>®</sup> Internet Explorer <sup>®</sup> 30 (32 bil Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9.0 (32 bil), Windows <sup>®</sup> Internet Explorer <sup>®</sup> 3.0 (32 bil Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9.0 (32 bil), Microsoft <sup>®</sup> Internet Explorer <sup>®</sup> 3.0 (32 bil Windows <sup>®</sup> Internet Explorer <sup>®</sup> 9.0 (32 bil), Microsoft <sup>®</sup> Internet Explorer <sup>®</sup> 6.0 SP 10Base-T / 100Base-TX, RJ-45 connector H.264 1.1920 x 1,080 / 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x 960 / UGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264 : 1,280 x
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#### TV System NTSC ΡΔΙ iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android<sup>™</sup> mobile terminals Mobile Terminal Compatibility Network Face Detection ON / OFF (with XML notification) Alarm Alarm Source WV-SF539 3 terminals input, VMD, Command alarm WV-SF538 1 terminal input, VMD, Command alarm SDXC/SDHC/SD memory recording", E-mail notification, Indication on browser, FTP image transfer, Panasonic protocol output "Only at WV-SF539 Alarm Actions 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 VBS: 1.0 V [p-p]/75 Ω, VBS: 1.0 V [p-p]/75 Ω, Monitor Output Input/ Output (for adjustment) Microphone/Line Input NTSC composite, RCA Jack PAL composite, RCA Jack 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 Safety/EMC Standard UL (UL60950-1), FCC (Part15 ClassA), CE, IEC60950-1 General 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. - 10 °C ~ +50 °C (14 °F ~ 122 °F) 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 a (0.99 lbs) Main body: ABS resin, sail white Finish Dome section: Clear acrylic resin

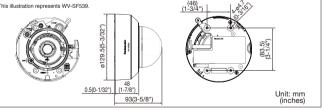
<sup>11</sup> Converted value <sup>12</sup> If "1.3 megapixel [4:3]" is selected for the imaging mode, the viewing angle will become narrower. <sup>13</sup> Refer to "Notes on Windows Vista" / Windows<sup>®</sup> 7" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft<sup>®</sup> Windows<sup>®</sup> 7 or Microsoft® Windows Vista®.

Microsoft<sup>®</sup> Windows Vista<sup>®</sup>. <sup>4</sup> When using IPv6 for communication, use Microsoft<sup>®</sup> Windows<sup>®</sup> 7 or Microsoft<sup>®</sup> Windows Vista<sup>®</sup>. <sup>5</sup> Transmission for 2 streams can be individually set in the same compression method. <sup>6</sup> For further information about compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.html).

#### Part Names and Functions



WV-SF539



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Important

- 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.
   All TV pictures are simulated.
   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



### http://panasonic.net/security/