Panasonic

Super Dynamic Full HD Vandal Resistant Dome Network Camera

WV-SFR631L

Super Dynamic HD Vandal Resistant Dome Network Camera

WV-SFR611L



Full HD / 1,920 x 1,080 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFR631L) HD / 1,280 x 720 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFR611L)

Key Features

- 1080p Full HD / 720p HD images up to 60 fps*1
- Approximate 1/3 inches, high sensitivity MOS Sensor
- Super high resolution at Full HD/1,920 x 1,080 created by high sensitivity MOS Sensor. (WV-SFR631L only)
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced "UniPhier®", Panasonic's proprietary System LSI platform.
- Maximum Screen Size is 2,048 x 1,536* @30fps, H.264 (WV-SFR631L only)
 Used by super resolution techniques
- Enhanced Super Dynamic^{*1} and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- Multi process NR & 3D-DNR ensures noise reduction in various conditions.
- High sensitivity with Day & Night (IR) function:
 WV-SFR631L: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
 WV-SFR611L: 0.01 lx (Color), 0.003 lx (B/W) at F1.3
- ullet IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- IR LED is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- New camera attachment bracket allows an easy camera installation toward all four directions.
- High Speed ABF (Auto Back Focus) and Motorized Zoom ensures easy installation.
- Newly developed lens with aperture control function realizes the best focus in any environment.
- VIQS (Variable Image Quality on Specified area) technology allows the designated eight 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.
- Cropping function enables to provide whole image and the part image simultaneously.
 Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Face Super Dynamic technology ensures clear face image.
- Lens distortion compensation for the distorted images can be adjusted 256 steps.
- Electronic sensitivity enhancement: Auto (Up to 16/30s) / OFF
- Selectable light control modes:
- Outdoor scene,Indoor scene (50 Hz) / Indoor scene (60 Hz),Fix shutter Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.
- 3x (WV-SFR631L), 2x (WV-SFR611L) extra optical zoom at 640 x 360 resolution
- 2x, 4x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas,
 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 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.
- Double SDXC/SDHC/SD Memory card slots for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (H.264 / JPEG). Realize long-term recording and auto backup function.
- Newly developed dome cover provides clearer images above the horizontal.
 Thereby, it expands the tilting range of the lens.
- Face detection function detects the position of human face and the information is sent by XML or video stream.(Optional WV-SAE100 or WV-SAE200 *As of May 2014)
- Can be added new intelligent extension software (Optional WV-SAE200 *As of May 2014) in addition to built-in VMD (Video Motion Detection), alarm function.
- Fog compensation function equipped as standard.
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination.
- 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 / Portuguese / 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
- · Vandal resistant mechanism for high reliability
- *1 Super Dynamic function is automatically set off on 60fps mode

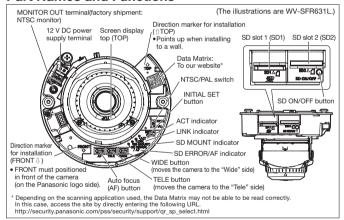
Ceiling Mount Bracket WV-Q105A Extension Software for Face Detection Function WV-SAE100 Ceiling Mount Bracket WV-Q174B WV-Q174B Smoke Dome Cover WV-CR1S Extension Software for Intelligent Video Motion / Face Detection Function WV-SAE200

Specifications

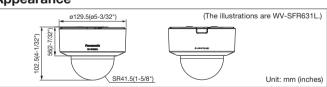
Camera	Image 9	Sensor	Approx. 1/3 type MOS image sensor
		e Pixels	WV-SFR631L: Approx. 2.4 mega pixels, WV-SFR611L: Approx. 1.3 mega pixel
		ng Mode	Progressive scan
	Scanning Area		WV-SFR631L: 5.346 mm (H) x 3.336 mm (V) {7/32 inches(H) x 1/8 inches(V) }
			WV-SFR611L : 4.864 mm (H) x 3.891 mm (V) {3/16 inches(H) x 5/32 inches(V) }
	Minimum Illumination IR LED Light IR LED irradiation distance		WV-SFR631L: Color: less than 0.04 lx, BW: 0.01 lx (F1.3, Maximum shutter: Max. 1/30s, Gain: On(High))
			Color: less than 0.003 kx, BW 0.0007 kx (F1.3, Maximum shutter : Max. 16/30s, Gain : On(High)) WV-SFR611L :
			Color: less than 0.01 kx, BW: 0.003 kx (F1.3, Maximum shutter: Max.: Off (1/30s), Gain: On(High)) Color: less than 0.0007 kx, BW 0.0002 kx (F1.3, Maximum shutter: Max.: Max.: 16/30s, Gain:On(High))
			Off/Auto(High/Mid/Low) Approx. 30 m {98.43 feet}
	White Balance Light Control Mode		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
	Shutter Speed		Indoor scene [50 Hz]: Automatic integration of ALC and ELC with flickerless Indoor scene [60 Hz]: Automatic integration of ALC and ELC with flickerless [2 mega pixel [16:9](60 fps mode)/ 1.3 mega pixel [16:9](60 fps mode)/ 0FF(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/1000
			Other than [2 mega pixel [16:9](60 fps mode)/ 1.3 mega pixel [16:9](60 fps mode) OFF(1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,1/500, 1/1000, 1/2000, 1/4000, 1/1000
	Super Dynamic*2 Face Super Dynamic		On(High) / On(Normal) / Off ON / OFF (Only at Super Dynamic : ON)
	Adaptive Black Stretch Fog compensation		ON / OFF (Only when Super Dynamic OFF) ON / OFF (Only when Super Dynamic/ Adaptive black stretch: Off)
	AGC		ON (LOW, MID, HIGH) / OFF
	Electronic Sensitivity UP		max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s, max. 1/30 s max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s
	Day & Night (IR) Dynamic Range		Off/ On/ Auto1 (Normal)/ Auto2 (IR Light)/ Auto3 (SCC) 133 dB typ. (Super Dynamic: ON, Light Control Mode: indoor)
	Digital Noise Reduction		High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Video Motion Detection Privacy Zone		Up to 8 zones
	VIQS		Up to 8 zones
	Camera Title (OSD) Electric Zoom		Up to 20 characters (alphanumeric characters, marks) TELE / WIDE , Auto Coarse adjustment of Focus
	Focus Adjustment		ABF / MANUAL(Html only)
	Lens Distortion Compensation		256 steps
Lens	Vari Focal Length Angular Field of View		2.8 ~ 10mm {1/8 inches - 13/32 inches} WV-SFR631L [16:9 mode] Horizontal: 28.8° (TELE) - 102.9° (WIDE
	Angular Field of View		Vertical : 16.0° (TELE) – 56.2° (WIDE) [4:3 mode] Horizontal : 23.8° (TELE) – 84.6° (WIDE)
			Vertical : 17.8° (TELE) – 62.6° (WIDE) WV-SFR611L [16:9 mode] Horizontal : 26.4° (TELE) – 94.0° (WIDE)
			Vertical : 14.7° (TELE) - 51.8° (WIDE) [4:3 mode] Horizontal : 26.4° (TELE) - 94.0° (WIDE)
	Maximum Aperture Ratio		Vertical : 19.8° (TELE) – 69.5° (WIDE) 1 : 1.3 (WIDE) ~ 1 : 3.0 (TELE) *with Smart DOF (Depth of Field) mode
	Focusing Range		0.3 m ~ ∞
Adjusting			Horizontal: ± 180°, Vertical: 0-85°, Image tilt adjustment range: -45°(Left) to +300°(Right
Browser GUI	Cropping		H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(2) Up to 4 image capture areas can be specified
	Camera Control Display Mode		Brightness, AUX ON / OFF Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
	Digital Zoom		screens or 16 split screen (JPEG only). 20 characters camera title available 1x, 2x, 4x controlled by browser GUI
	Camera Title		Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)
	Clock Display Alarm Control		Reset
		ot 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 Men	nory Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloade
		tup Menu Language Log	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal)
	System Log		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	-		
		ted OS *3	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®
	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® 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)
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector
Network	Suppor	ted Browser	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista' 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) 10Base-T / 10DBase-TX, RJ-45 connector WV-SFR631L:
Network	Suppor	ted Browser IF Image Capture Mode: 2 mega pixel [16.9] (30/60 fps) Image Capture Mode:	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vistal Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L:
Network	Suppor	ted Browser IF Image Capture Mode: 2 mega pixel [16:9] (30/60 fps) Image Capture Mode: 2 mega pixel [4:3] (30/fps) Image Capture Mode:	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L:
Network	Suppor	Led Browser IF Image Capture Mode: 2 mega pixel (169) (3060 fps) Image Capture Mode: 2 mega pixel [4:3] (30fps) Image Capture Mode: 3 mega pixel [4:3] (30fps)	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 "Used by super resolution techniques"
Network	Network Image	IF Image Capture Mode: 2 maga pixel [168] (3010 lp.) Image Capture Mode: 2 mega pixel [4.3] (301ps) Image Capture Mode: 3 mega pixel [4.3] (301ps) Image Capture Mode:	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Mindows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 VISSR ST / 1280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12
Network	Network Image	IF Image Capture Mode: 2 mega pixel [163] (3010 [1s] Image Capture Mode: 2 mega pixel [4:3] (301ps) Image Capture Mode: 3 mega pixel [4:3] (301ps) Image Capture Mode: 1 mege Capture Mode: 1 mege Capture Mode: 1 mege Capt	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) (Mindows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 × 1,080 / 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 WV-SFR631L: 2,046 × 1,536 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 12 WV-SFR631L: 2,046 × 1,536 / 1,280 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 12 WV-SFR631L: 1,280 × 1520 / 1520 × 960 / 800 × 600 / 640 × 480 / 400 × 300 / 320 × 240 / 160 × 12 WV-SFR631L: 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 WV-SFR611L: 1,280 × 720 / 640 × 360 / 320 × 180 / 160 × 90 WV-SFR611L: 1
Network	Network Image	IEG Browser IF Image Capture Mode: 2 mega pixel [6:9] (3060 fps) Image Capture Mode: 2 mega pixel [4:3] (30fps) Image Capture Mode: 3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [6:3] (3061ps) Image Capture Mode: 1.3 mega pixel [6:3] (3061ps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Transmission Mode	Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows Vista® Windows® Internet Explore® 10.0 (32 bit), Windows® Internet Explore® 9.0 (32 bit), Windows® Internet Explore® 9.0 (32 bit), Windows® Internet Explore® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,000 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 wV-SFR631L: 1,280 x 960 / 800 x 600
Network	Network Image	IF Image Capture Mode: 2 mega pixel [163] (3016) [ps] Image Capture Mode: 2 mega pixel [4:3] (3015) Image Capture Mode: 3 mega pixel [4:3] (3015) Image Capture Mode: 1.3 mega pixel [6:3] (3016) Image Capture Mode: 1.3 mega pixel [4:3] (3015) Image Capture Mode: 1.3 mega	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) (108ase-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,200 x 1,220 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,270 x 960 / 800 x 960 / 8
Network	Network Image	Ire Browser IF Image Capture Mode: 2 mega pixel [163] (3050 fps) Image Capture Mode: 2 mega pixel [43] (30fps) Image Capture Mode: 3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Transmission Mode Frame Rate Bit Rate/Client	Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® Internet Explore® 10.0 (32 bit), Windows® Internet Explore® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L 1,920 x 1,080 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L 2,048 x 1,535 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by super resolution techniques WV-SFR611L 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L 1,280 x 600 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super resolution techniques WV-SFR611L 1,280 x 600 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super Resolution techniques WV-SFR611L 1,280 x 601 x 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super Resolution techniques WV-SFR611L 1,280 x 601 x 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super Resolution techniques WV-SFR611L 1,280 x 601 x 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super Resolution techniques WV-SFR611L 1,280 x 601 x 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super Resolution techniques WV-SFR611L 1,280 x 601 x 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super Resolution techniques WV-SFR611L 1,280 x 601 x 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by Super Resolution techniques WV-SFR611L 1,280 x 601 x 800 x 600 / 640 x 480 /
Network	Suppor Network Image Resolution	IEG Browser IF Image Capture Mode: 2 mega pixel [163] (3060 [ps) Image Capture Mode: 2 mega pixel [4-3] (301ps) Image Capture Mode: 3 mega pixel [4-3] (301ps) Image Capture Mode: 13 mega pixel [163] (301ps) Image Capture Mode: 1.3 mega pixel [4-3] (301ps) Image Capture Mode: 1.3 mega pixel [4-3] (301ps) Iransmission Mode Frame Rate Bit Rate/Client Image Quality	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,280 x 750 / 640 x 360 / 320 x 180 / 160 x 300 / 320 x 240 / 160 x 120 / 320 x 240
Network	Suppor Network Image Resolution	IF Image Capture Mode: 2 mega pixel [4:3] (30f9s) Image Capture Mode: 2 mega pixel [4:3] (30f9s) Image Capture Mode: 3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Transmission Mode Frame Rate Bit Rate/Client Image Quality Image Quality Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.4 mega Pixel P	Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,200 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,200 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by super resolution techniques WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 750 / 750
Network	Suppor Network Image Resolution H.264	IF Image Capture Mode: 2 mega pixel [163] (30%) fpsl Image Capture Mode: 2 mega pixel [4:3] (30fps) Image Capture Mode: 3 mega pixel [4:3] (30fps) Image Capture Mode: 3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [6:3] (30fps) Image Capture Mode: Image Capture Mode: Image Quality Refresh interval Transmission Type Image Quality	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Nista' Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 UV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Constant bitrate / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7,5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 1,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps LOW / NORIMAL / FINE 0,2 / 0,25 / 0,33 / 0.5 / 1 / 2 / 3 / 4 / 5s UNICAST / MULTICAST
Network	Suppor Network Image Resolution	IF Image Capture Mode: 2 mega pixel [4:3] (30f9s) Image Capture Mode: 2 mega pixel [4:3] (30f9s) Image Capture Mode: 3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Transmission Mode Frame Rate Bit Rate/Client Image Quality Image Quality Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Image Capture Mode: 1.4 mega Pixel P	Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,200 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,200 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Used by super resolution techniques WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 750 / 750
Network	Network Image Resolution H.264 -4 JPEG Audio C	IF Image Capture Mode: 2 mega pixel [163] (30/10 fps) Image Capture Mode: 2 mega pixel [163] (30/10 fps) Image Capture Mode: 3 mega pixel [163] (30/10 fps) Image Capture Mode: 3 mega pixel [163] (30/10 fps) Image Capture Mode: 1.3 mega pixel [163] (30/10 fps) Image Capture Mode: 1.3 mega pixel [163] (30/10 fps) Image Capture Mode: 1.3 mega pixel [163] (30/10 fps) Image Capture Mode: 1.1 mega Pixel [163] (163/10 fps) Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Image Ouality Refresh Image	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Nista' Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,048 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 UV-SFR631L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,280 x 720 / 640 x 360 / 340 / 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bitrate / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7, 5 / 10 / 12 / 15 / 20 / 30 / 60 fps 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 / 16,384 / 20,480 / 24,576 kbps LOW / NORIMAL / FINE 0,2 / 0,25 / 0,33 / 0,5 / 1 / 2 / 3 / 4 / 5s UNICAST / MULTICAST / 10 steps 0.1 fbs: 30 fps (JPE6 frame rate will be restricted when displaying both JPEG and H.264 images PULLL / PUSH 0.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
Network	Suppor Network Image Resolution H.264 -4 JPEG Audio C Audio C	Iri Image Capture Mode: 2 mega pixel [16:9] (30/80 fps) Image Capture Mode: 2 mega pixel [16:3] (30/95) Image Capture Mode: 3 mega pixel [16:3] (30/95) Image Capture Mode: 1.3 mega pixel [16:3] (3	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L : 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L : 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L : 1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L : 1,280 x 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L : 1,280 x 1,280
Network	Suppor Network Image Resolution H.264 -4 JPEG Audio C Audio C	Ire Browser IF Image Capture Mode: 2 mega pixel [16:9] (30/60 fps) Image Capture Mode: 2 mega pixel [4:3] (30/fps) Image Capture Mode: 3 mega pixel [4:3] (30/fps) Image Capture Mode: 1.3 mega pixel [4:3] (30/fps) Image Capture Mode: 1.3 mega pixel [4:3] (30/fps) Image Capture Mode: 1.3 mega pixel [4:3] (30/fps) Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Ompression Mode Code incutton for Audio	Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 2,040 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 2,040 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR631L: 1,280 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 WV-SFR611L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 UV-SFR611L: 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12 Constant Ditrater / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,556 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 1,333 / 16,384 / 20,480 / 24,576 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / ps (JPEG frame rate will be restricted when displaying both JPEG and H 264 images PULLL / PUSH

Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed backup as an entired SPVC/SPHC/SP manner card in qualible)
	h. (0: li	is failed, backup on an optional SDXC/SDHC/SD memory card is available.)
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions) H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC/ Backup upon network failure Compatible (JPEG only
	SDXC/SDHC/SD	
	Memory Card (Option)	
	* Manufactured by Panasonic	JPEG recording : Manual REC / Alarm REC (Pre/Post) /
	(SD speed class 4 or higher) * Use the SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of SD Speed Class 10.	Backup upon network failure Compatible
		SD (SDHC/SDXC) card: Panasonic
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Employment of two SD cards	Dual Recording for Redundancy
		Series Recording for long time JPEG image, AUX control (by access level)
	Cellular Phone Compatibility	
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android [™] Terminal
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification,
		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC/SDHC/SD memory card :
		Up to 50,000 logs for each SD memory card
	Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file
Input/	Monitor Output	VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite,
Output	(for adjustment)	ø3.5mm mini jack MONITOR OUT conversion plug included
Gutput	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack
	Wildrophone/Eine input	(monaural input) (Applicable microphone: Plug-in power type)
		Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 2 kt (disbatched
	External I/O Terminals	ALARM IN 1/DAY/NIGHT IN, ALARM IN 2/ALARM OUT, ALARM IN 3/AUX OUT
General		
General	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-
	EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	When IR LED is ON
	Power Consumption	WV-SFR631L
		DC power supply: 12 V DC/760 mA/Approx. 9.1 W
		PoE Device: 48 V DC/240 mA/Approx. 11.1 W (Class 0 device)
		WV-SFR611L
		DC power supply: 12 V DC/690 mA/Approx. 8.2 W
		PoE Device: 48 V DC/200 mA/Approx. 9.4 W (Class 0 device)
		* ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.
		-10°C ~ +50°C (14 °F ~ 122 °F)
	Ambient Operating Humidity	20 ~ 90 % (no condensation)
	Shock Resistance	Compliant with 20J IEC60068-2-75/ IEC 62262 IK10
	Dimensions	ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)}
		Dome radius 41.5 mm {1-5/8 inches}
	Mass (approx.)	Approx. 0.76kg {1.68 lbs}
	Finish	Main body : Aluminum die cast, sail white / Dome section: Clear polycarbonate resi

Part Names and Functions



Appearance



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Important

- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions 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.

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[|] Finish | Main body : Aluminum die cast, sai writer / Dome section: Clear polycarbonate resil
*1 Converted value *2 Super Dynamic function is automatically set off on 60fps mode.
*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® 7 or Microsoft® Windows Vista®.
*4 Transmission for 4 streams can be individually set.