Panasonic

Super Dynamic Full HD Vandal Resistant Dome Network Camera

Super Dynamic HD Vandal Resistant Dome Network Camera

WV-SFR611L

WV-SFR631L



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
- 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 browcor
- 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 forme rate.
- bouble SDXC/SDHC/SD Memory card slots for manual recording
 (1004/1950) along used line (1004/1950) and healing used states
- (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 *As of June 2014)
- Can be added new intelligent extension software
- (Optional *As of June 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



Specifications

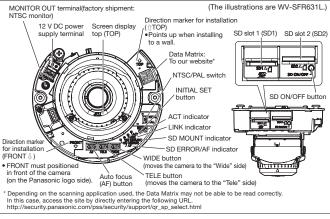
DISTRIBUTED BY:

Camera	Image	Sensor	Approx. 1/3 type MOS image sensor
Jamera	Image Sensor Effective Pixels		WV-SFR631L : Approx. 2.4 mega pixels, WV-SFR611L : Approx. 1.3 mega pixels
	Scanni	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		WV-SFR631L : Color: less than 0.04 kr, BW: 0.01 kr (F1.3, Maximum shutter : Max. 1/30s, Gain : On(High)) Color: less than 0.003 kr, BW 0.0007 kr (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))
	IR LED Light		Color: less than 0.0007 kr, BW 0.0002 kr (F1.3, Maximum shutter : Max.: Max. 16/30s, Gain:On(High))" Off/Auto(High/Mid/Low)
	IR LED irradiation distance White Balance		Approx. 30 m {98.43 feet} 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 with flickerless Indoor scene [60 Hz] : Automatic integration of ALC and ELC with flickerless
	Shutter Speed		[2 mega pixel [16:9](60 fps mode)/ 1.3 mega pixel [16:9](60 fps mode)] OFF(1/40), 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) OF(1/30, 3/10, 3/12, 2/100, 2/120, 1/100, 1/120, 1/250, 1/1000, 1/2000, 1/4000
	Super Dynamic*2		Or(High) / On(Normal) / Off
	Face Super Dynamic		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)		Off/ On/ Auto1 (Normal)/ Auto2 (IR Light)/ Auto3 (SCC)
	Dynamic Range		133 dB typ. (Super Dynamic: ON, Light Control Mode : indoor) High / Low
	Digital Noise Reduction Video Motion Detection		4 areas, Sensitivity : 15 steps, Detection size : 10 steps
	Privacy Zone		Up to 8 zones
	VIQS Camera Title (OSD)		Up to 8 zones
	Electric		Up to 20 characters (alphanumeric characters, marks) TELE / WIDE, Auto Coarse adjustment of Focus
		Adjustment	ABF / MANUAL(Html only)
	Lens Distortion Compensation		256 steps
Lens		cal Length	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) - 16.2° (WIDE) 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 Browser	g Angle		Horizontal: ± 180°, Vertical: 0-85°, Image tilt adjustment range: -45°(Left) to +300°(Right H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)
GUI	Cropping		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 screens or 16 split screen (JPEG only). 20 characters camera title available.
	Digital Zoom Camera Title		1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters
	Clock [Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset
	Alarm Control One Shot 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 Mer	nory Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
	GUI / Se System	etup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal)
	-	-	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	Supported OS *3 Supported 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
Madara	Madernaul	15	10Base-T / 100Base-TX, RJ-45 connector
Network	Network	Image Capture Mode:	WV-SFR631L :
Network	Network	Image Capture Mode: 2 mega pixel [16:9] (30/60 fps) Image Capture Mode:	WV-SFR631L : 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L :
Network		Image Capture Mode: 2 mega pixel [16:9] (30/60 fps)	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 1200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFR631L:
Network	Network Image Resolution	Image Capture Mode: 2 mega pixel [16:9] (30/60 fps) Image Capture Mode: 2 mega pixel [4:3] (30fps)	WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,800 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFR631L: 2,048 x 1,538 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
Network	Image	Image Capture Mode: 2 mega pixel [16:9] (30160 fps) Image Capture Mode: 2 mega pixel [4:3] (30fps) Image Capture Mode: 3 mega pixel [4:3] (30fps)	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 1200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFR631L:
Network	Image	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 [16:9] (30/60/fps)	WV-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,800 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFR631L: 2,048 x 1,580 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 "Used by super resolution techniques WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
Network	Image	Image Capture Mode: 2 mega pixel [16:3] (30:01 bp; Image Capture Mode: 2 mega pixel [4:3] (30(ps) Image Capture Mode: 3 mega pixel [4:3] (30(ps) Image Capture Mode: 13 mega pixel [4:3] (30(ps) Image Capture Mode: 1.3 mega pixel [4:3] (30(ps)	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 120 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 120 ''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 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
Network	Image Resolution H.264	Image Capture Mode: 2 mega pixel [16:3] (30:01 bp; Image Capture Mode: 2 mega pixel [4:3] (30(ps) Image Capture Mode: 3 mega pixel [4:3] (30(ps) Image Capture Mode: 13 mega pixel [4:3] (30(ps) Image Capture Mode: 1.3 mega pixel [4:3] (30(ps)	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 120 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 120 *Used by super resolution techniques 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
Network	Image Resolution	Image Capture Mode: 2 mega pixel [163] (3080 hg, 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 [4:3] (30fps) Transmission Mode: Transmission Mode: Trans Mate	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 1200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 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 120 "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 UZ-SFR611L: 1,280 x 90 / 800 x 600 / 640 x 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 / 720 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 1/240 x 90
Network	Image Resolution H.264	Image Capture Mode: 2 mega pixel (163 (306) tips) Image Capture Mode: 2 mega pixel (43) (301ps) Image Capture Mode: 3 mega pixel (43) (301ps) Image Capture Mode: 1.3 mega pixel (43) (301ps) Transmission Mode Frarne Rate Bit Rate/Client Image Quality	WW-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 120 WV-SFR631L: 2,048 x 1,538 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFR631L: 1,240 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR611L: 1,220 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 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 / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s UNICAST / MULTICAST
Network	Image Resolution H.264	Image Capture Mode: 2 mega pixel [163] (3016) [68] Image Capture Mode: 2 mega pixel [4:3] (3016) Image Capture Mode: 13 mega pixel [4:3] (3016) Image Capture Mode: 13 mega pixel [163] (3016)[6] Image Capture Mode: 13 mega pixel [4:3] (3016) Image Capture Mode: 14 mega Capture Mode: 15 mega Capture Mode: 16 mega Capture Mode: 17 mega Capture Mode: 18 mega Capture Mode: 19 mega Capture Mode: 10 mega Capture M	WW-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,000 x 1200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFR631L: 2,048 x 1,586 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 VU-SFR631L: 2,048 x 1,586 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 "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 960 / 800 x 600 / 640 x 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 / 748 / 10.24 / 15.6 / 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 0.15 ps- 30 fg UFEG frame rate will be restricted when displaying both JPEG and H.264 images
Network	Image Resolution H.264 *4	Image Capture Mode: 2 mega pixel (163 (306) by Image Capture Mode: 2 mega pixel (43) (301ps) Image Capture Mode: 3 mega pixel (43) (301ps) Image Capture Mode: 1.3 mega pixel (43) (301ps) Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality	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 120 WV-SFR631L: 2,048 x 1,583 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 "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 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 180 / 160 x 100 1,280 x 750 / 640 x 160 / 540 / 400 x 300 / 320 x 240 / 160 x 120 Constant birtate / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 256 / 384 / 512 / 768 / 10,26 / 12,384 / 20,480 / 24,576 kbps LOW / NORMAL / FINE 0.2 / 0,25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 45s UNICAST / MULTICAST 10 steps 0.158 / 30 (pEG frame rate will be restricted when displaying both JPEG and H264 images PULL / PUSH 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
Network	Image Resolution H.264 *4 JPEG Audio (Audio (Image Capture Mode: 2 mega pixel (163 (036) fps) Image Capture Mode: 2 mega pixel (43) (301ps) Image Capture Mode: 3 mega pixel (43) (301ps) Image Capture Mode: 1.3 mega pixel (43) (301ps) Image Capture Mode: 1.3 mega pixel (43) (301ps) Image Distribution Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Dompression	WW-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 120 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 120 VU-SFR631L: 1,240 x 1,536 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 '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 960 / 800 x 600 / 640 x 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 / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s UNICAST / MULTICAST 10 steps 0.1 fps -30 fps (JPEG frame rate will be restricted when displaying both JPEG and H264 images. PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Cevel 1 onty / Level 2 higher / All users
Network	Image Resolution H.264 '4 JPEG Audio (Audio (Audio 1 Audio 1 Audio 1	Image Capture Mode: 2 mega pixel [163 (0301 bg) Image Capture Mode: 2 mega pixel [4:3] (301ps) Image Capture Mode: 3 mega pixel [4:3] (301ps) Image Capture Mode: 1.3 mega pixel [4:3] (301ps) Image Capture Mode: 1.3 mega pixel [4:3] (301ps) Image Capture Mode: 1.3 mega pixel [4:3] (301ps) Image Capture Mode: Inage Capture Mode: In	WW-SFR631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFR631L: 1,000 x 1200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFR631L: 2,048 x 1,586 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 VU-SFR631L: 2,048 x 1,586 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 "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 960 / 800 x 600 / 640 x 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 / 748 / 10,24 / 15.6 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fs (JPEG frame rate will be restricted when displaying both JPEG and H264 images PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC OFF / Mic (Line) input / Audio output / Interactive (Fall duplex/ / Interactive (Full duplex/

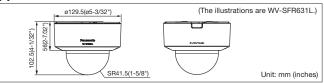
Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission
		is failed, backup on an optional SDXC/SDHC/SD memory card is available.)
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC/ Backup upon network failure Compatible (JPEG only)
	Memory Card (Option)	
	* Manufactured by Panasonic	JPEG recording : Manual REC / Alarm REC (Pre/Post) /
	(SD speed class 4 or higher)	Backup upon network failure Compatible
	* Use the SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of	SD (SDHC/SDXC) card: Panasonic
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model
	SD Speed Class 10.	*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Employment of two SD cards	Dual Recording for Redundancy
		Series Recording for long time
	Cellular Phone Compatibility	JPEG image, AUX control (by access level)
	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
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack
		(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. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1/DAY/NIGHT IN, ALARM IN 2/ALARM OUT, ALARM IN 3/AUX OUT
General	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
	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.
	Ambient Operating Temperature	-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.) Finish	Dome radius 41.5 mm {1-5/8 inches} Approx. 0.76kg {1.68 lbs} Main body : Aluminum die cast, sail white / Dome section: Clear polycarbonate resin

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 Main body: Audminum de tast, sai write / Jointe sector: Care polycatoonale resi
 *1 Converted value *2 Super Dynamic function is automatically set of 06 06 ps 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® 6 or Microsoft® Windows® 7
 *4 Transmission for 4 streams can be individually set.

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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