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
- 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)
- Can be added new intelligent extension software (Optional) 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

Optional Accessories

Ceiling Mount Bracket
WV-Q105A



Ceiling Mount Bracket
WV-Q174B



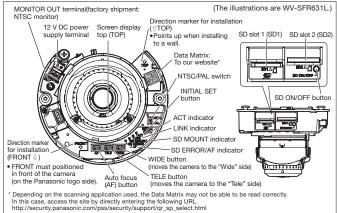
Smoke Dome Cover



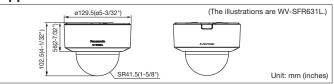
Camera	Image S	Sensor	Approx. 1/3 type MOS image sensor
		e Pixels	WV-SFR631L : Approx. 2.4 mega pixels, WV-SFR611L : Approx. 1.3 mega pixel
	Scannir	ng Mode	Progressive scan
		ng Area	WV-SFR631L: 5.346 mm (H) x 3.336 mm (V) {7/32 inches(H) x 1/8 inches(V) } WV-SFR611L: 4.864 mm (H) x 3.891 mm (V) {3/16 inches(H) x 5/32 inches(V)
	Minimu	m 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 lx, BW: 0.003 lx (F1.3, Maximum shutter: Max.: Off (1/30s), Gain: On(High)) Color: less than 0.0007 lx, BW 0.0002 lx (F1.3, Maximum shutter: Max.: Max. 16/30s, Gain:Cn(High))
	IR LED Light		Off/Auto(High/Mid/Low)
	White E	irradiation distance Balance ontrol Mode	Approx. 30 m (98.43 feet) 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 Indoor scene [50 Hz]: Automatic integration of ALC and ELC with flickerles
	Shutter	Speed	Indoor scene [60 Hz]: Automatic integration of ALC and ELC with flickerles [2 mega pixel [16:9](60 fps mode)] Amega pixel [16:9](60 fps mode)] OFF(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000,
	Super Dynamic*2		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 On(High) / On(Normal) / Off
		uper Dynamic	ON / OFF (Only at Super Dynamic : ON)
		e Black Stretch	ON / OFF (Only when Super Dynamic OFF)
		mpensation	ON / OFF (Only when Super Dynamic/ Adaptive black stretch: Off)
	AGC Electro	nic Sensitivity UP	ON (LOW, MID, HIGH) / OFF max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s, max. 1/30 s
	<u> </u>	light (IR)	max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s Off/ On/ Auto1 (Normal)/ Auto2 (IR Light)/ Auto3 (SCC)
		c Range	133 dB typ. (Super Dynamic: ON, Light Control Mode: indoor)
	Video N	Noise Reduction Motion Detection	High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 8 zones
	Privacy VIQS	Zone	Up to 8 zones
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Electric Zoom		TELE / WIDE , Auto Coarse adjustment of Focus ABF / MANUAL(Html only)
	Focus Adjustment Lens Distortion Compensation		256 steps
Lens		cal Length	2.8 ~ 10mm {1/8 inches – 13/32 inches}
	Angular Field of View		WV-SFR631L [16:9 mode] Horizontal: 28.8° (TELE) – 102.9° (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) Vertical : 19.8° (TELE) – 69.5° (WIDE)
	Maximum Aperture Ratio Focusing Range		1 : 1.3 (WIDE) \sim 1 : 3.0 (TELE) *with Smart DOF (Depth of Field) mode 0.3 m \sim ∞
Adjusting		ig riango	Horizontal: ± 180°, Vertical: 0-85°, Image tilt adjustment range: -45°(Left) to +300°(Right)
Browser GUI			H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(Up to 4 image capture areas can be specified
GUI	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
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)
	Alarm Control One Shot Capture		Reset 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 Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
	GUI / Setup Menu Language System Log		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal)
	Supported OS *3		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista
	Supported Browser		Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit)
Mate: 1			Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)
Network	Network	IF Image Capture Mode:	10Base-T / 100Base-TX, RJ-45 connector WV-SFR631L:
		2 mega pixel [16:9] (30/60 fps)	1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
		Image Capture Mode:	WV-SFR631L:
		2 mega pixel [4:3] (30fps)	1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12
	Image	Image Capture Mode: 3 mega pixel [4:3] (30fps)	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
	Resolution		*Used by super resolution techniques
		Image Capture Mode: 1.3 mega pixel [16:9] (30/60fps)	WV-SFR611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
		Image Capture Mode: 1.3 mega pixel [4:3] (30fps)	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
		Frame Rate Bit Rate/Client	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/
	H.264	Frame Rate Bit Rate/Client	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
	H.264 *4	Frame Rate Bit Rate/Client Image Quality	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
	1	Frame Rate Bit Rate/Client Image Quality Refresh interval	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
	1	Frame Rate Bit Rate/Client Image Quality	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
	1	Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval	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 H.264 image
	JPEG	Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type	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 image PULL / PUSH
	JPEG Audio C	Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Transmission Type Transmission Type Transmission Type Transmission Type Transmission Type	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 (ps - 30 (ps L)PEG frame rate will be restricted when displaying both JPEG and H264 image PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
	JPEG Audio C	Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Transmission Type Transmission Type Transmission Type Transmission Type Transmission Type	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 H.264 image PULL / PUSH 6,726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC OFF / Mic (Line) input / Audio output / Interactive (Half duples) / Interactive (Full duple
	JPEG Audio C Audio N Authen Total B	Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type Compression Mode ication for Audio	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 (ps - 30 (ps L)PEG frame rate will be restricted when displaying both JPEG and H264 image PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC

Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission
Network	I II Gliefit	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) JPEG recording: Manual REC / Alarm REC (Pre/Post) /
	Memory Card (Option)	
	* Manufactured by Panasonic	
	(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. Employment of two SD cards	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)
		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
Alum	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification,
	Additi Actions	Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC/SDHC/SD memory card :
	Additi Log	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
	morephone, zane mpac	(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
acriciai	FMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	When IR LED is ON
	Power Consumption	WV-SFR631L
	Tower concampaon	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.)	Approx. 0.76kg {1.68 lbs}
	Finish	Main body : Aluminum die cast, sail white / Dome section: Clear polycarbonate resin
	1	

Part Names and Functions



Appearance



- Trademarks and registered trademarks

 Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
- iPad, iPhone and iPod touch are registered trademarks of Apple Inc
 Android is a trademark of Google Inc.
- UniPhier is a registered trademark of Panasonic Corporation.
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 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
- 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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*1 Converted value *2 Super Dynamic function is automatically set of 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® 8 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 o