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.
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 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:
- 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 *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

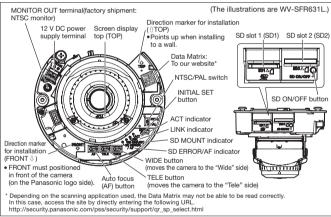
DISTRIBUTED BY:

Camera			
			Approx. 1/3 type MOS image sensor
		e Pixels	WV-SFR631L : Approx. 2.4 mega pixels, WV-SFR611L : Approx. 1.3 mega pixels
	Scanning 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) } WV-SFR631L :
	Minimum Illumination		VVV-SFR631L : Color: less than 0.04 k, BW: 0.01 k (F1.3, Maximum shutter : Max. 1/30s, Gain : On(High)) Color: less than 0.003 k, BW 0.0007 k (F1.3, Maximum shutter : Max. 16/30s, Gain : On(High)) VVV-SFR611L : Color: less than 0.01 k, BW: 0.003 k (F1.3, Maximum shutter : Max. : Off (1/30s), Gain : On(High))
	IR LED Light		Color: less than 0.0007 lx, BW 0.0002 lx (F1.3, Maximum shutter : Max.: Max. 16/30s, Gain:On(High))" Off/Auto(High/Mid/Low)
		irradiation distance	Approx. 30 m {98.43 feet}
	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 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(1/60), 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, 1/250, 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		ON / OFF (Only when Super Dynamic OFF)
	Fog compensation		ON / OFF (Only when Super Dynamic/ Adaptive black stretch: Off)
	AGC Electronic 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,
	Day & Night (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)
	Day & Night (IR) Dynamic Range		133 dB typ. (Super Dynamic: ON, Light Control Mode : indoor)
	Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity : 15 steps, Detection size : 10 steps
	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) 256 steps
Lens	Lens Distortion Compensation Vari Focal Length		2.8 ~ 10mm {1/8 inches – 13/32 inches}
Lens		Field of View	WV-SFR631L [16 : 9 mode] Horizontal : 28.8° (TELE) – 102.9° (WIDE)
	Angular Freid 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)
	Maximum Aperture Ratio		[4 : 3 mode] Horizontal : 26.4° (TELE) – 94.0° (WIDE) 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 $\sim \infty$
Adjusting	Angle		Horizontal: ± 180°, Vertical: 0-85°, Image tilt adjustment range: -45°(Left) to +300°(Right)
Browser	Croppir	Ig	H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)
GUI	Camera Control		Up to 4 image capture areas can be specified Brightness, AUX ON / OFF
	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. 1x, 2x, 4x controlled by browser GUI
	Digital Zoom		Up to 20 alphanumeric characters
	Camera Title Clock Display		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Alarm Control		Reset
	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 Men	nory 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, 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)
	N		Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit)
Network	INETWORK		10Base-T / 100Base-TX, RJ-45 connector
		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
		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 120
		Image Capture Mode:	WV-SFR631L:
	Image Resolution	3 mega pixel [4:3] (30fps)	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
		Image Capture Mode:	WV-SFR611L :
		1.3 mega pixel [16:9] (30/60fps)	1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
		Image Capture Mode:	WV-SFR611L:
	<u> </u>	1.3 mega pixel [4:3] (30fps)	1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
	H.264 *4	Transmission Mode Frame Rate	Constant bitrate / Framerate priority / Best effort / Advanced VBR
		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 /
		Image Quality	8,192 / 10,240 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps
		Image Quality Refresh interval	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s
			UNICAST / MULTICAST
		Transmission Type	
	IPEC	Image Quality	10 steps
	JPEG	Image Quality Refresh interval	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images.
		Image Quality Refresh interval Transmission Type	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. PULL / PUSH
	Audio C	Image Quality Refresh interval Transmission Type compression	10 steps 0.1 (ps - 30 (ps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
	Audio C Audio N	Image Quality Refresh interval Transmission Type compression fode	10 steps 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 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)
	Audio C Audio N	Image Quality Refresh interval Transmission Type compression Node ication for Audio	10 steps 0.1 (ps - 30 (ps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC

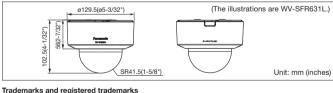
Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission
		is failed, backup on an optional SDXC/SDHC/SD memory card is available.)
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions) H.264 recording : Manual REC / Narm REC (Pre/Post) / Schedule REC/ Backup upon network failure Compatible (JPEG only) JPEG recording : Manual REC / Alarm REC (Pre/Post) / 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)
	SDXC/SDHC/SD	
	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	
		Series Recording for long time
	Cellular Phone Compatibility	JPEG image, AUX control (by access level) iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android [™] Terminal
	Mobile Terminal Compatibility	
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
output	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
aonorai	EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	When IR LED is ON
	Power Consumption	WV-SEB631L
	l'ener concamption	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-SEB611L
		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 Besistance	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
1.0		nction is automatically set off on 60fps mode.

¹² Order to Value 2 Super Dynamic Unicidon's automatically set on on outpaintose.
¹³ Refer to "Notes on Windows Vista®," *Unidows*[®] 7 or *Windows*[®] 8 or Microsoft® Windows[®] 8 or Microsoft® Windows Vista®,
¹⁴ Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



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- Masses and dimensions are approximate. Specifications are subject to change without notice.

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