Panasonic

Super Dynamic Full HD Dome Network Camera WV-SFN631L Super Dynamic HD Dome Network Camera

WV-SFN611L



Full HD / 1,920 x 1,080 60 fps H.264 Network Camera featuring Super Dynamic (WV-SFN631L) HD / 1,280 x 720 60 fps H.264 Network Camera featuring Super Dynamic (WV-SFN611L)

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-SFN631L 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-SFN631L 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-SFN631L: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
 WV-SFN611L: 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-SFN631L), 2x (WV-SFN611L) 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

*1 Super Dynamic function is automatically set off on 60fps mode

Optional Accessories



Specifications

DISTRIBUTED BY:

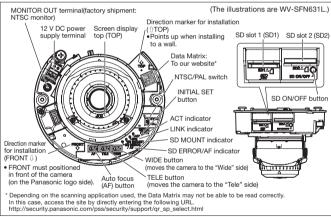
Camera	Effectiv		Approx. 1/3 type MOS image sensor WV-SFN631L : Approx. 2.4 mega pixels, WV-SFN611L : Approx. 1.3 mega pixel
		ng Mode	Progressive scan
	Scanning Area		WV-SFN631L : 5.346 mm (H) x 3.336 mm (V) {7/32 inches(H) x 1/8 inches(V) } WV-SFN611L : 4.864 mm (H) x 3.891 mm (V) {3/16 inches(H) x 5/32 inches(V)
	Minimum Illumination		WV-SFN631L : 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-SFN611L :
			Color: less than 0.01 k, BW: 0.003 k (F1.3, Maximum shutter : Max. : Off (1/30s), Gain : On(High) Color: less than 0.0007 k, BW 0.0002 k (F1.3, Maximum shutter : Max. : Max. 16/30s, Gain: On(High) Off/Auto(High/Mid/Low)
	IR LED irradiation distance		Approx. 30 m {98.43 feet}
	White Balance Light Control Mode Shutter Speed		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 Index scenes [50 Hz]. 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 [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)]
	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, 1/100 On(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 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,
	Day & Night (IR)		max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 Off/ On/ Auto1 (Normal)/ Auto2 (IR Light)/ Auto3 (SCC)
	Dynamic Range		133 dB typ. (Super Dynamic: ON, Light Control Mode : indoor)
	Digital Noise Reduction Video Motion Detection		High / Low 4 areas, Sensitivity : 15 steps, Detection size : 10 steps
	Privacy Zone		Up to 8 zones
	VIQS		Up to 8 zones Up to 20 characters (alphanumeric characters, marks)
	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-SFN631L [16 : 9 mode] Horizontal : 29.3° (TELE) - 104.1° (WIDE) Vertical : 16.2° (TELE) - 56.8° (WIDE) Vertical : 16.2° (TELE) - 65.8° (WIDE) [4 : 3 mode] Horizontal : 24.0° (TELE) - 63.3° (WIDE) Vertical : 18.0° (TELE) - 63.3° (WIDE) WV-SFN611L [16 : 9 mode] Horizontal : 26.6° (TELE) - 95.1° (WIDE) Vertical : 14.9° (TELE) - 52.3° (WIDE)
	Maximum Aperture Ratio		[4 : 3 mode] Horizontal : 26.7° (TELE) - 95.1° (WIDE) Vertical : 20.0° (TELE) - 70.2° (WIDE) 1 : 1.3 (WIDE) ~ 1 : 3.0 (TELE) *with Smart DOF (Depth of Field) mode
Adjusting Browser			0.3 m ~ ∞ Horizontal: ± 180°, Vertical: 0-85°,Image tilt adjustment range: -45°(Left) to +300°(Rig H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(2)
GUI	Cropping 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 Qua screens or 16 split screen (JPEG only). 20 characters camera title available
	Digital 2 Camera		1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters
	Clock D		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Alarm C		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 download
	GUI / Setup Menu Language System Log		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal)
	Supported OS *3 Supported Browser Network IF		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error log 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® 6.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) DBase-T / 100Base-TX, RJ-45 connector
Network		Image Capture Mode: 2 mega pixel [16:9] (30/60 fps) Image Capture Mode:	WV-SFN631L : 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFN631L :
	Image	2 mega pixel [4:3] (30fps) Image Capture Mode: 3 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 1 WV-SFN631L : 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 1
	Resolution	Image Capture Mode:	*Used by super resolution techniques WV-SFN611L :
		1.3 mega pixel [16:9] (30/60fps) Image Capture Mode:	1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFN611L :
		1.3 mega pixel [4:3] (30fps) Transmission Mode Frame Rate	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
	H.264	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
		Image Quality Refresh interval Transmission Type	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s UNICAST / MULTICAST
	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
	Transmission Type Audio Compression		PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
	Audio Mode Authentication for Audio		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duple
			Level 1 only / Level 2 higher / All users

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 (SD speed class 4 or higher)	JPEG recording : Manual REC / Alarm REC (Pre/Post) /
	* Use the SD memory card that	Series Recording for long time JPEG image, AUX control (by access level) iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android TM Terminal
	complies with UHS-1	
	(Ultra High Speed-1) in the case of SD Speed Class 10.	
	Employment of two SD cards	
	Cellular Phone Compatibility	
	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
	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-SFN631L
		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-SFN611L
		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	
	Ambient Operating Humidity	20 ~ 90 % (no condensation)
	Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)}
		Dome radius 40 mm {1-9/16 inches}
	Mass (approx.)	Approx. 0.59kg {1.30 lbs}
	Finish	Main body: ABS resin, sail white / Dome section: Clear acrylic resin
	Mass (approx.)	Dome radius 40 mm {1-9/16 inches} Approx. 0.59kg {1.30 lbs} Main body: ABS resin, sail white / Dome section: Clear acrylic resin

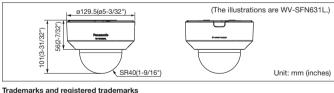
*1 Converted value *2 Super Dynamic function is automatically set off on 60fps mode. *3 Refer to *Notes on Windows Vista® / Windows® 7 / Windows® 8* on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

*4 Transmission for 4 streams can be individually set.

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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