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
- \bullet 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 *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

*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

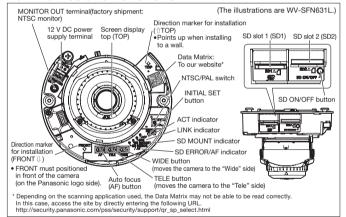


Specifications

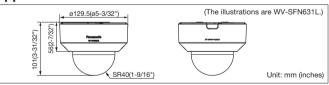
Camera		Sensor e Pixels	Approx. 1/3 type MOS image sensor WV-SFN631L: Approx. 2.4 mega pixels, WV-SFN611L: Approx. 1.3 mega pixels
		ng Mode	Progressive scan
	Scanning Area		WV-SFN631L: 5.346 mm (H) x 3.336 mm (V) {7/32 inches(H) x 1/8 inches(V) } WV-SFN611L: 4.864 mm (H) x 3.891 mm (V) {3/16 inches(H) 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 kr, BW: 0.003 kr (F1.3, Maximum shutter: Max.: Off (1/30s), Gain: On(High))
	IR LED		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) Appears 20 (20, 42, 54, 54, 54)
	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(1/60), 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, 1/1000
	Super Dynamic*2		On(High) / On(Normal) / Off
	Face Super Dynamic Adaptive Black Stretch		ON / OFF (Only at Super Dynamic : ON) 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,
	Day & Night (IR) Dynamic Range		max. 1/30 s, 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) 133 dB typ. (Super Dynamic: ON, Light Control Mode: indoor)
	Dynamic Range Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zone		Up to 8 zones Up to 8 zones
	VIQS Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Electric Zoom		TELE / WIDE , Auto Coarse adjustment of Focus
	Focus Adjustment		ABF / MANUAL(Html only)
Lens	Lens Distortion Compensation Vari Focal Length		256 steps 2.8 ~ 10mm {1/8 inches – 13/32 inches}
Lens	Angular Field of View		WV-SFN631L [16:9 mode] Horizontal: 29.3° (TELE) - 104.1° (WIDE)
			Vertical : 16.2° (TELE) - 56.8° (WIDE) [4:3 mode] Horizontal : 24.0° (TELE) - 85.5° (WIDE) Vertical : 18.0° (TELE) - 95.3° (WIDE) WV-SFN611L [16:9 mode] Horizontal : 26.6° (TELE) - 95.1° (WIDE) Vertical : 14.9° (TELE) - 52.3° (WIDE)
	Maximum Apartura Patia		[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
	Maximum Aperture Ratio 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(3) Up to 4 image capture areas can be specified
GOI	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 Clock Display		Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)
	Alarm Control One Shot Capture Audio		Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,
	SD Men	nory Data Download	Audio Output: ON / OFF Volume adjustment: Low / Middle / High 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)
Notwork	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 Network IF		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 / 100Base-TX, RJ-45 connector
Network	INCLWOIN	Image Capture Mode: 2 mega pixel [16:9] (30/60 fps)	WV-SFN631L: 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
		Image Capture Mode: 2 mega pixel [4:3] (30fps)	WV-SFN631L: 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 Resolution	Image Capture Mode: 3 mega pixel [4:3] (30fps)	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 120 *Used by super resolution techniques
		Image Capture Mode: 1.3 mega pixel [16:9] (30/60fps)	WV-SFN611L: 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
		Image Capture Mode: 1.3 mega pixel [4:3] (30fps) Transmission Mode	
	H.264	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/ 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
	Transmission Type		(JPEG frame rate will be restricted when displaying both JPEG and H.264 images.) PULL / PUSH
	Audio Compression Audio Mode		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)
	Authentication for Audio Total Bit Rate Supported Protocol		Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARF
			IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP

Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmissio 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/		
	Memory Card (Option)	Backup upon network failure Compatible (JPEG only		
	* Manufactured by Panasonic (SD speed class 4 or higher)	JPEG recording : Manual REC / Alarm REC (Pre/Post) /		
	* Use the SD memory card that	Backup upon network failure Compatible		
	complies with UHS-1	SD (SDHC/SDXC) card: Panasonic		
	(Ultra High Speed-1) in the case of SD Speed Class 10.	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		
	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-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	-10°C ~ +50°C (14 °F ~ 122 °F)		
	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		
	d value *2 Super Dynamic function is automatically set off on 60fps mode			

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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[&]quot;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®.