

Super Dynamic Full HD Dome Network Camera WV-SFN631L

Super Dynamic HD Dome Network Camera WV-SFN611L



i-VMD Type2 : Intruder Detection / Loitering Detection / Direction Detection / Scene Change Detection / Object Detection / Cross Line Detection

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 image sensor
- Super high resolution at Full HD/1,920 x 1,080 created by high sensitivity MOS image 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.
- Maximum Screen Size is 2,048 x 1,536* @30 fps, 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.
- Smart coding Technology : Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding. Auto VIQS (Variable Image Quality on Specified area) function recognizes the no movement area in a video automatically and lowering the resolution of it to reduce the data size.

With the latest bit rate reducing technology, GOP control, Auto VIQS, 3D-MNR (Multi process Noise Reduction) and FDF (Frequency Divided Filter), the network bandwidth and the disk space of recorder can be saved.

- High sensitivity with Day/Night (ICR*) 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 *ICR: IR Cut filter Removal
- 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 thedesignated 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.
- 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.
- 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.
- 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.
- HLC (High Light Compensation) technology reduces strong light sources such as vehicle headlights to prevent camera being blinded.
- 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
- Supports SSL, DDNS (viewnetcam, RFC2136)
- *1 Super Dynamic function is automatically set off on 60 fps mode

Optional Accessories



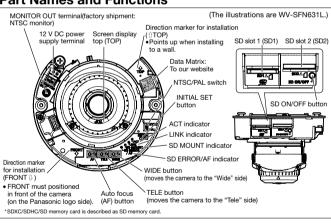
Specifications

Camera	Image S		Approx. 1/3 type MOS image sensor
		ig Mode	Progressive scan
	Scanning Area		WV-SFN631L : 5.28 mm (H) x 3.30 mm (V) {7/32 inches(H) x 1/8 inches(V) }
	Minimum Illumination		WV-SFN611L : 4.86 mm (H) x 3.65 mm (V) {3/16 inches(H) x 5/32 inches(V) WV-SFN631L :
			Color: less than 0.04 b, BW: 0.01 lk (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)) WV-SFN611L : 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 kr, BW: 0.0002 kr (F1.3, Maximum shutter : Max. 16/30s, Gain:On(High))"1 Off / Auto(High / Mid / Low)
	IR LED irradiation distance White Balance Light Control 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
	Light Control Mode		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, 1/4000, 1/1000
	Super Dynamic*2 Face Super Dynamic		On (High) / On (Normal) / Off On / Off (Only when 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) / On (Mid) / On (High) / Off
	Electronic Sensitivity UP Day/Night (ICR)		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 : 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 / VIQS		Up to 8 zones
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks) TELE / WIDE , Auto Coarse adjustment of Focus
	Electric Zoom Focus Adjustment		ABF / MANUAL (Html only)
	Lens Distortion Compensation		256 steps
Lens		al Length	2.8 - 10mm {1/8 inches - 13/32 inches}
	Angular Field of View		WV-SFN631L [16:9 mode] Horizontal: 29.3% (TELE) - 104.1% (WIDE) Vertical Vertical 16.2% (TELE) - 56.8% (WIDE) [4:3 mode] Horizontal: 24.0% (TELE) - 85.5% (WIDE) Wertical :18.0% (TELE) - 63.3% (WIDE) WV-SFN611L [16:9 mode] Horizontal: 26.6% (TELE) - 95.1% (WIDE) Vertical :14.9% (TELE) - 65.3% (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
	Focusing Range		0.3 m - ∞
Adjusting Browser GUI			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) Up to 4 image capture areas can be specified
GOI	Camera Control		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
	Digital Zoom Camera Title		1x, 2x, 4x controlled by browser GUI 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 downloade
	GUI / Setup Menu Language System Log		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese 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® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8 Microsoft® Windows® 7, Microsoft® Windows Vista®
	Supported Browser		Windows® Internet Explorer® 11 (32-bit), Windows® Internet Explorer® 10 (32-bit) Windows® Internet Explorer® 39 (32-bit), Windows® Internet Explorer® 8 (32-bit), Windows® Internet Explorer® 7 (32-bit), Safari, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector
		WV-SFN631L	•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 •2 mega pixel [4 : 3] (30 fps) + mega pixel [4 : 0] (30 fps)
	Image Resolution		1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •3 mega pixel [4 : 3] (30 fps) "Used by super resolution techniques 2,048 x 1,536' / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 +1.3 mega pixel [16 : 9] (30/60 fps)
		WV-SFN611L	1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [4 : 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 12
		Transmission Mode	
		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	Dit nate/Olief11	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
	*4	Image Quality	Low / Normal / Fine
		Smart Coding mode	On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)
		Refresh interval	0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s
		Transmission Type	Unicast / Multicast 10 steps
	JPEG	Image Quality Refresh interval	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 Compression Audio Mode Authentication for Audio		Chi / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
	Total Bit Rate Supported Protocol		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite
			IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, AF

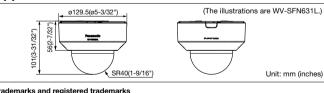
Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission
		is failed, backup on an optional SDXC/SDHC/SD memory card is available.)
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD	H.264 recording :
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure
	* Manufactured by Panasonic	JPEG recording :
	(SD speed class 4 or higher)	Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
	* Use the SD memory card that complies with UHS-1	Compatible SD (SDHC/SDXC) card:
	(Ultra High Speed-1) in the case of	Panasonic 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64 GB** 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 [™] mobile terminals
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 : DC12 V / 760 mA / Approx. 9.1 W
		PoE (IEEE802.3af compliant) Device : DC48 V / 240 mA / Approx. 11.1 W (Class 0 device)
		WV-SFN611L
		DC power supply : DC12 V / 690 mA / Approx. 8.2 W
		PoE (IEEE802.3af compliant) Device : DC48 V / 200 mA / Approx. 9.4 W (Class 0 device)
		* ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-10°C to +50°C (14 °F to 122 °F)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)}
	Dimensions	
		Dome radius 40 mm {1-9/16 inches}
	Mass (approx.)	

Townerde value *2 Super Dynamic function is automatically set of on 60 fps mode.
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*4 Transmission for 4 streams can be individually set. Part Names and Functions



Appearance



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