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 960 60 fps H.264 Network Camera featuring Super Dynamic (WV-SFN611L)

Key Features

- 1080p Full HD / 720p HD images up to 60 fps
- 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 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), 0.003 lx (B/W) at F1.3 WV-SFN611L: 0.01 lx (Color), 0.0007 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.
- 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(1920 x 1080) and the part image (640 x 480) simultaneously.
- Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Face Super Dynamic Range technology ensures clear face image.
- Compensation for the distorted images can be adjusted 256 steps.
- Electronic sensitivity enhancement: Auto (Up to 16/30s) / OFF
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time) Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated. ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.
- 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 enables clearer images with a wide range of tilt angles.
- Can be added new intelligent extension software 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

Standard Accessories

Standard Accessories	
Installation Guide 1 set CD-ROM ⁺¹ 1 pc.	• Code label*2 1 pc.
*1 The CD-ROM contains the operating instructions a *2 This label may be required for network management	and different kinds of tool software programs. ent. The network administrator shall retain the code label.
The following parts are used during insta • Attachment plate	Ilation procedures. • MONITOR OUT conversion plug 1 pc. • Cable tie
Optional Accessory	

Ceiling Mount Bracket	Ceiling Mount Bracket	Dome Cover
WV-Q105A	WV-Q174B	WV-CF5SA

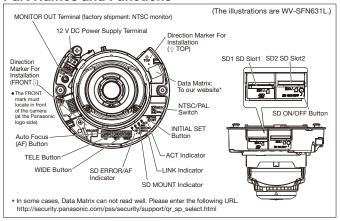
Specifications

Camera				
			Approx. 1/3 type MOS Sensor	
		e Pixels	WV-SFN631L : Approx. 2.4 megapixel, WV-SFN611L : Approx. 1.4 megapixe	
		ng Mode	Progressive scan WV-SFN631L : 5.421 mm (H) x 3.405 mm (V) {7/32 inches(H) x 1/8 inches(V) }	
	Scannir	ng Area	WV-SFN631L : 5.421 mm (H) x 3.405 mm (V) {7/32 inches(H) x 1/8 inches(V) } WV-SFN611L : 4.860 mm (H) x 3.904 mm (V) {3/16 inches(H) x 5/32 inches(V)	
	Minimu	m Illumination	WV-SINGTE: 4.000 mm (n) x 3.304 mm (v) (5/10 moles(n) x 3/32 moles(v)	
		in marmination	Color: less than 0.04 lx, BW: 0.003 lx (F1.3, Maximum shutter : Max. 1/30s, Gain : On(High)	
			Color: less than 0.005 lx, BW 0.001 lx (F1.3, Maximum shutter : Max. 16/30s, Gain : On(High))	
	IR LED Light		WV-SFN611L :	
			Color: less than 0.01 lx, BW: 0.0007 lx (F1.3, Maximum shutter : Max. : Off (1/30s), Gain : On(High)	
			Color: less than 0.0025 lx, BW 0.001 lx (F1.3, Maximum shutter : Max. : Max. 16/30s, Gain: On(High)) ^{*1}	
			Off/Auto(High/Mid/Low)	
	IR LED	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/ Indoor scene (50 Hz)/ Indoor scene (60 Hz)/ Fix shutter	
	Shutter Speed Super Dynamic Face Super Dynamic		[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, 1/4000,1/10000	
			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, 1/10000	
			OF(1/30), 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 On(High) / On(Normal) / Off	
			ON / OFF (Only at Super Dynamic : ON)	
	Face Super Dynamic Adaptive Black Stretch		ON / OFF	
	Adaptive Black Stretch Fog compensation		ON / OFF (only when Super Dynamic / Adaptive black stretch: Off)	
			ON (LOW, MID, HIGH) / OFF	
	Electronic Sensitivity UP		OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))	
	Day & Night (IR)		Mode : AUTO1 / AUTO2 / AUTO3 / ON/OFF, Level : High / Low, with external control	
	Dynamic Range		133dB typ. (Super Dynamic: ON, Light Control Mode : indoor)	
	Digital Noise Reduction		High / Low	
		Notion Detection	4 areas, Sensitivity : 15 steps, Detection size : 10 steps	
	Privacy	Zone	Up to 8 zones	
	VIQS		Up to 8 zones	
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)	
	Electric		TELE / WIDE , Auto Coarse adjustment of Focus	
		Adjustment	ABF / MANUAL(Html only) 256 steps	
ens		tortion Compensation cal Length	256 steps 2.8 ~ 10mm {1/8 inches – 13/32 inches}	
10110		Field of View	WV-SFN631L	
	J		[16 : 9 mode] Horizontal : 30.68° (TELE) – 104.12° (WIDE)	
			Vertical : 17.30° (TELE) – 56.77° (WIDE)	
			[4 : 3 mode] Horizontal : 25.60° (TELE) - 85.48° (WIDE)	
			Vertical : 19.23° (TELE) – 63.27° (WIDE)	
			WV-SFN611L	
			[16 : 9 mode] Horizontal : 28.27° (TELE) – 95.10° (WIDE)	
			Vertical : 15.97° (TELE) – 52.27° (WIDE)	
			[4:3 mode] Horizontal: 28.27° (TELE) – 95.10° (WIDE)	
			Vertical : 21.25° (TELE) – 70.23° (WIDE)	
	Maximum Aperture Ratio Focusing Range		1 : 1.3 (WIDE) ~ 1 : 3.0 (TELE) 0.3 m ~ ∞	
Adjusting		ig nange	Horizontal: ± 180°, Vertical: 0-87°, Image tilt adjustment range: -45°(Left) to +300°Right	
	Croppin	ng	H.264(1) / H.264(2) / H.264(3) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3)	
Browser	Croppir	ıg	H.264(1) / H.264(2) / H.264(3) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3) Up to 4 image capture areas can be specified	
Browser	Camera	a Control	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF	
Browser		a Control	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad	
Browser	Camera Display	a Control Mode	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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.	
Browser	Camera Display Digital 2	Control Mode Zoom	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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	
Browser	Camera Display Digital 2 Camera	a Control Mode Zoom a Title	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 spilt screen (JPEG only). 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters	
Browser	Camera Display Digital 2 Camera Clock D	a Control Mode Zoom 1 Title Display	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters 1me : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)	
Browser	Camera Display Digital 2 Camera Clock D Alarm C	a Control Mode Zoom 1 Title Display Control	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset	
Browser	Camera Display Digital 2 Camera Clock D Alarm C	a Control Mode Zoom 1 Title Display	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters 1me : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)	
Browser	Camera Display Digital 2 Camera Clock D Alarm C One Sh	a Control Mode Zoom 1 Title Display Control	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window.	
Browser	Camera Display Digital 2 Camera Clock I Alarm C One Sh Audio	a Control Mode Zoom 1 Title Display Control	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 spill screen (JPEG only). 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloader	
Browser	Camera Display Digital 2 Camera Clock I Alarm C One Sh Audio SD Men GUI / Se	a Control Mode Zoom Title Display Zontrol ot Capture nory Data Download tup Menu Language	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Still or motion Images recorded in the SDXC/SDHc/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese	
Browser	Camera Display Digital 2 Camera Clock E Alarm C One Sh Audio	a Control Mode Zoom Title Display Zontrol ot Capture nory Data Download tup Menu Language	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal)	
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Browser GUI	Camera Display Digital 2 Camera Clock L Clock L Alarm C One Sh Audio SD Men GUI / Se System Suppor	a Control Mode Zoom Title Display Zontrol ot Capture ory Data Download stup Menu Language Log ted OS '2 ted Browser 	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDX/SDKCSD memory card can be downloade English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4.000 (SDX/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® h.Microsoft® Windows® Internet Explorer® 9.0 (32 bit Windows® Internet Explorer® 0.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit 10Base-T / 100Base-TX, RJ-45 connector	
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3rowser QUI	Camera Display Digital 2 Camera Clock I Alarm C One Sh Audio SD Men GUI / Se System Suppor Network	a Control Mode Zoorn Title bisplay control ot Capture ot Capture tot Qapture tot Qapture Log ted OS '2 ted Browser IF Image Capture Mode: 2 meg pixel [4:3] (30(b) (b) Image Capture Mode: 2 meg pixel [4:3] (30(b)) Image Capture Mode:	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Bill or motion Images recorded in the SDXC/SDHC/SD memory card can be downloade English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up 4.000 (BXXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFNG31L : 1,200 x 1.080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,600 x 1,280 / 1,280 x 600 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFNK31L :	
Browser GUI	Camera Display Digital 2 Camera Clock L Alarm C One Sh Audio SD Men GUI / Se System Suppor Suppor Network	a Control Mode Zoom Title Sisplay Sontrol of Capture of Capture of Capture Log ted OS '2 ted OS '2 ted Browser IF Image Capture Mode: 2 mgg pixel [65] (3016 bg, Image Capture Mode: 2 mgg pixel [43] (301ps).	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF Sopt, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 15 split screen (JPEG only). 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Still or motion Images recorded in the SDXC/SDHC/SD memoy card can be downloaded. English, Italian, French, German, Spanish, Portugese, 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 Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit) Windows® Internet Explorer® 10.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit) UP3 x 1.080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 Wv-SFN631L : 1,200 x 1.080 / 1,280 x 720 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Wv-SFN631L : 1,200 x 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Wv-SFN631L : 1,200 x 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120	
Browser GUI	Camera Display Digital 2 Camera Clock I Alarm C One Sh Audio SD Men GUI / Se System Suppor Network	a Control Mode Zoom Title Sisplay Sontrol of Capture of Capture of Capture tup Menu Language Log ted OS '2 ted Browser (IF Image Capture Mode: 2 mega pikel [163] (3006 ty) Image Capture Mode: 3 mega pikel [43] (30ps)	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Interna) Up to 4.000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 0.032 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 0.032 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 0.032 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit 10Base T / 100Base TX, RJ-45 connector WV-SFNK31L : 1.920 x 1.080 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1.600 x 1.200 / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 VV-SFNK31L : 2.048 x 1.586 / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 VU-SeFNK31L :	
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3rowser QUI	Camera Display Digital 2 Camera Clock L Alarm C One Sh Audio SD Men GUI / Se System Suppor Suppor Network	Control Control Control Control Control Trite Sisplay Control ot Capture ot Capture Cog ted OS '2 ted OS '2 ted Browser IF Image Capture Mode: 2 mega pixel [4:3] (30fps) Image Capture Mode: 1 maga pixel [4:3] (30fps)	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downbaded 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 Microsoff@ Windows® 8, Microsoft@ Windows® 7, Microsoft@ Windows Vista® Microsoff@ Windows® 1, Microsoft@ Windows® 1, Steporer® 7.0 (32 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit 1.1,200 x 1.200 / 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK031 L: 1.400 x 1.200 / 1.280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 WV-SFNK031 L: 1.280 x 7.20 / 640 x 360 / 320 x 180 / 160 x 90	
3rowser QUI	Camera Display Digital 2 Camera Clock L Alarm C One Sh Audio SD Men GUI / Se System Suppor Suppor Network	a Control Mode Zoom Title Sisplay Sontrol of Capture of Capture of Capture tot Capture Log ted OS '2 ted Browser (IF Image Capture Mode: 2 meg pixel (165) (2006 (ps) Image Capture Mode: 3 meg pixel (163) (2006 (ps) Image Capture Mode: 3 meg pixel (163) (2006 (ps) Image Capture Mode: 1 meg Pixel (163) (2006 (ps) Image Capture Mode: 3 meg pixel (163) (2006 (ps) Image Capture Mode:	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloadec 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 Microsoft® Windows® 8, Microsoft® Windows® T, Microsoft® Windows Sitter Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 0.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 0.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 0.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 0.0 (32 bit) Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 0.0 (32 bit) Windows 9.1 (280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 "Used by super resolution techniques WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90	
3rowser QUI	Camera Display Digital 2 Camera Clock L Alarm C One Sh Audio SD Men GUI / Se System Suppor Suppor Network	a Control Mode Zoorn Title Display Sontrol ot Capture ot Capture tot Capture do Capture Log ted OS '2 ted Browser IF Image Capture Mode: 2 megapikel [4:3] (30fps) Image Capture Mode: 3 mega pikel [4:3] (30fps) Image Capture Mode: 1 3 mega pikel [4:3] (30fps) Image Capture Mode: 1 3 mega pikel [4:3] (30fps)	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Bill or motion Images recorded in the SDXC/SDHC/SD memory card can be downloade: English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4.000 (BXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows Vista® Windows® Internet Explorer® 0.0 (32 bit), Windows® Internet Explorer® 0.0 (32 bit) Windows® Internet Explorer® 0.0 (32 bit), Windows® Internet Explorer® 0.0 (32 bit) 10Base-T / 100Base-TX, RJ-45 connector WV-SFNG31L : 1,200 x 1.080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNG31L : 2,448 x 1,587 / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 VV-SFNG31L : 1,200 x 220 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNG31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNG31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNG31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNG31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNG31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90	
3rowser QUI	Camera Display Digital 2 Camera Clock L Alarm C One Sh Audio SD Men GUI / Se System Suppor Suppor Network	I Control Mode Zoom Title Sisplay Jontrol ot Capture Ory Data Download etup Menu Language Log Log Led OS '2 ted OS '2 ted Browser IF Image Capture Mode: 2 mega pixel [4:3] (30fps) Image Capture Mode: 3 mega pixel [4:3] (30fps) Image Capture Mode: 1.3 mega note (5:3) (5:5	Up to 4 image capture areas can be specified Brightness, AUX ON / OFF 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 Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual) Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : ON / OFF Volume adjustment : Low / Middle / High, Audio Output : ON / OFF Volume adjustment : Low / Middle / High, Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal) Up to 4000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 1, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit 10Base-T / 10DBase-TX, RJ-45 connector WV-SFNK31L : 1,202 x 1.080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,200 x 1,280 x 720 / 640 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *Used by super resolution techniques WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 20 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 20 / 640 x 360 / 320 x 180 / 160 x 90 WV-SFNK31L : 1,280 x 20 / 640 x 360 / 320 x 180 / 160 x 90	
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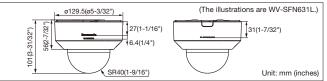
Network	FTP Client	Alarm image transmission, FTP periodic transmission (When the FTP transmission	
		is failed, backup on an optional SDXC/SDHC/SD memory card is available.)	
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)	
	SDXC/SDHC/SD	H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC/	
	Memory Card (Option)	Backup upon network failure Compatible	
		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)	
	Employment of two SD cards	Dual Recording for Redundancy	
		Series Recording for long time	
	Cellular Phone Compatibility	JPEG image	
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android [™] Terminal	
Alarm	Alarm Source	3 terminals input, VMD, Command alarm	
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,	
		Indication on browser, FTP image transfer, Panasonic protocol output	
	Alarm Log	With SDXC/SDHC/SD memory card : 5,000 logs,	
		without SDXC/SDHC/SD memory card : 1,000 logs	
	Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file	
Input/	Monitor Output	VBS : 1.0 V [p-p]/75 Ω,	
Output	(for adjustment)	NTSC / PAL composite, ø3.5mm mini jack	
output	Microphone/Line Input	MIC IN and Line IN are selectable, ø3.5 mm monaural mini jack	
	inicioprioric/Ente input	(monaural input) (Applicable microphone: Plug-in power type)	
		Supply voltage: 2.5 V \pm 0.5 V Input impedance: approx. 2 k Ω (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	
General	EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024	
	Power Source and	When IR LED is ON	
	Power Consumption	WV-SEN631L	
	r ower consumption	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-SEN611L	
		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}	
		Approx. 0.5 kg {1.1 lbs}	
	Mass (approx.)	Approx. 0.5 kg {1.1 lbs} Main body: ABS resin, sail white / Dome section: Clear acrylic resin	
	Finish	wain bouy. Abo resin, sail white / Dome section: Clear acrylic resin	

*1 Converted value *2 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®. *3 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



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