

Super Dynamic Full HD Vandal Resistant & Waterproof Dome Network Camera

WV-SFV631L

Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camera

# WV-SFV611L



\*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 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFV631L) HD / 1,280 x 720 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFV611L)

# 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-SFV631L 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-SFV631L only)
   \* Used by super resolution techniques
- Enhanced Super Dynamic<sup>\*1</sup> 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. With the latest bit rate reducing technology, GOP control, 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-SFV631L: 0.04 lx (Color), 0.01 lx (B/W) at F1.3 WV-SFV611L: 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 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.
  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-SFV631L), 2x (WV-SFV611L) 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 and there is a larger to the parameter of the parameters of a start to be an end of the parameters of the parameters of the parameters of a start to be a start of the parameters of the par
- 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)
- 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
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
  ONVIF compliant model
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.
- Dehumidification device for use with various weather conditions
- Vandal resistant mechanism for high reliability

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

# **Specifications**

Camera		ensor	Approx. 1/3 type MOS image sensor
	Image Sensor		
	Scanning Mode Scanning Area		Progressive scan WV-SFV631L : 5.28 mm (H) x 3.30 mm (V) {7/32 inches (H) x 1/8 inches (V)}
	Scanning Area		WV-SFV631L : 5.26 mm (H) x 3.30 mm (V) {7/32 mches (H) x 1/8 mches (V)} WV-SFV611L : 4.86 mm (H) x 3.65 mm (V) {3/16 inches (H) x 5/32 inches (V)}
	Minimum Illumination		WV-SFV631L :
			Color : less than 0.04 lx, BW : 0.01 lx
			(F1.3, Maximum shutter : Max. 1/30s, Gain : On(High))
			Color : less than 0.003 lx, BW : 0.0007 lx
			(F1.3, Maximum shutter : Max. 16/30s, Gain : On(High)) *1
	IR LED Light		WV-SFV611L :
			Color : less than 0.01 lx, BW : 0.003 lx
			(F1.3, Maximum shutter : Max. Off (1/30s), Gain : On(High))
			Color : less than 0.0007 lx, BW : 0.0002 lx (F1.3, Maximum shutter : Max. 16/30s, Gain : On(High))*1
			Off / Auto (High / Mid / Low)
			Approx. 30 m {98.43 feet}
	IR LED irradiation distance White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
		ontrol Mode	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, 1/4000,1/10000
			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
	Super Dynamic *2		On (High) / On (Normal) / Off
	Face Super Dynamic		On / Off (Only when Super Dynamic : On)
	Adaptive Black Stretch		On / Off (Only when Super Dynamic : Off)
		npensation	On / Off (Only when Super Dynamic / Adaptive black stretch : Off)
	AGC		On (Low) / On (Mid) / On (High) / Off
	Electronic Sensitivity UP		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 s
	Day/Night (ICR) Dynamic Range		Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
			133 dB typ. (Super Dynamic : On, Light Control Mode : indoor) High / Low
		loise Reduction	High / Low 4 areas, Sensitivity : 15 steps, Detection size : 10 steps
	Video Motion Detection Privacy Zone		4 areas, Sensitivity : 15 steps, Detection size : 10 steps Up to 8 zones
	VIQS		Up to 8 zones
	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)
	-	ortion Compensation	256 steps
Lens		al Length	2.8 - 10mm {1/8 inches - 13/32 inches}
		Field of View	WV-SFV631L [16:9 mode] Horizontal: 28.8° (TELE) - 102.6° (WIDE)
	-		Vertical : 16.0° (TELE) – 56.0° (WIDE)
			[4 : 3 mode] Horizontal : 23.7° (TELE) – 84.3° (WIDE)
			Vertical : 17.8° (TELE) – 62.4° (WIDE)
			WV-SFV611L [16:9 mode] Horizontal: 26.4° (TELE) – 93.7° (WIDE)
			Vertical : 14.8° (TELE) – 51.6° (WIDE)
			[4 : 3 mode] Horizontal : 26.4° (TELE) – 93.7° (WIDE)
			Vertical : 20.0° (TELE) – 69.3° (WIDE)
	Maximum Aperture Ratio		1:1.3 (WIDE) - 1:3.0 (TELE) *with Smart DoF (Depth of Field) mode
	Focusing Range		0.3 m - ∞
Adjustin	g Angle		Horizontal : ±180°, Vertical : 0-85°
			Image tilt adjustment range : -45° (Left) to +300° (Right)
Browser	Croppin	g	H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) /
GUI			JPEG(1) / JPEG(2) / JPEG(3)
			Up to 4 image capture areas can be specified
	Camera Display		Brightness, AUX On / Off
	Display	wode	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 Z	'00m	1x, 2x, 4x controlled by browser GUI
			Up to 20 alphanumeric characters
	Camera Title Clock Display		Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manual)
	Alarm Control		Reset
		-	A still picture will be displayed on a newly opened window.
	One Shot Capture Audio		Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	Audio		
			Audio Output : On / Off Volume adjustment : Low / Middle / High
		ory Data Download	
	SD Mem	-	Audio Output : On / Off Volume adjustment : Low / Middle / High
	SD Mem	ory Data Download tup Menu Language	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,
	SD Mem GUI / Se	tup Menu Language	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
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Network	SD Mem GUI / Ser System Support Network	ed OS *3 ed Browser	Audio Output : Cn / 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 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® 8.1 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Internet Explorer® 10 (32-bit) Windows® Internet Explorer® 10 (32-bit) Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 8 (32-bit) Windows® Internet Explorer® 8 (32-bit) Safari', Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector *2 mega pixel [4: 3] (30 fps) 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) 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
Network	SD Mem GUI / Ser System Support Network	ed OS *3 ed Browser	Audio Output : Cn / 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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 10 Microsoft® Windows® 10 Microsoft® Windows® 8.1 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 8 Windows® Internet Explorer® 11 (32-bit) Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 8 (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 10Base-T / 100Base-TX, RJ45 connector *2 mega pixel [16: 3] (30/60 fps) 1,920 x 1,080 / 1,280 x 920 / 640 x 360 / 320 x 180 / 160 x 90 *2 mega pixel [16: 3] (30/60 fps) 1,920 x 1,080 / 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) 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
Network	SD Mem GUI / Ser System Support Network	ed OS *3 ed Browser	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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Internet Explorer® 11 (32-bit) Windows® Internet Explorer® 10 (32-bit) Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 7 (32-bit) Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-T7 / 100Base-TX, RJ45 connector <b>2 mega pixel [16 : 3] (30 fps)</b> 1,900 x 1,000 / 1,280 x 720 / 640 x 360 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel <b>[4 : 3] (30 fps)</b> -2.048 x 1,538 ' 1,280 x 960 / 900 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *1.500 s 1,200 x 1,200 x 120 *1.500 s 1,200 x 120 *1.500 s 1,200 x 120 *1.500 s 1,200 x 120 *1.500 s 1,200 x 1
Network	SD Mem GUI / Ser System Support Network	ed OS *3 ed Browser	Audio Output : Cn / 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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Internet Explorer® 10 (32-bit) Windows® Internet Explorer® 8 (32-bit) Safari', Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-T / 10DBase-TX, RJ45 connector *2 mega pixel [16: ] (30/60 fps) 1,900 x 1,200 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *2 mega pixel [4: 3] (30 fps) 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) 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) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 180 / 160 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 160 / 610 x 90 *1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 380 / 320 x 840 / 400 x 300 / 3.280 x 240 / 160 x 120
Network	SD Mem GUI / Ser System Support Network	ed OS *3 ed Browser	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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) enror logs Microsoft® Windows® 10 Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Nindows® 8 Microsoft® Windows® 7 Microsoft® Nindows® 7 Microsoft® Mindows® 7 Microsoft® Microsoft® Microsoft® Microsoft® Microsoft® Microsoft®
Network	SD Mem GUI / Ser System Support Network	tup Menu Language Log ed OS *3 ed Browser d F WV-SFV631L WV-SFV611L	Audio Output : Cn / 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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Microsoft® 9 (32-bit) Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 7 (32-bit) Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-T / 10DBase-TX, FJ45 connector <b>2 mega pixel 16:</b> 61 (306/05p) 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 <b>3 mega pixel 16:</b> 61 (30 / fps) 1,280 x 720 / 1640 x 360 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 * Used by super resolution techniques <b>* 1.3 mega pixel 16:</b> 61 (30 / fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 <b>* 1.3 mega pixel [4:</b> 31 (30 / fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 <b>* 1.3 mega pixel [4:</b> 31 (30 / fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 <b>* 1.3 mega pixel [4:</b> 31 (30 / fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 <b>* 1.3 mega pixel [4:</b> 31 (30 / fps) 1,280 x 720 / 640 x 540 / 400 x 300 / 320 x 240 / 160 x 120 * 10 mega pixel [4: 31 (30 / fps) 1,280 x 720 / 640 x 540 / 400 x 300 / 320 x 240 / 160 x 120 * 10 mega pixel [4: 31 (30 / fps) 1,280 x 720 / 640 x 540 / 400 x 300 / 320 x 240 / 160 x 120 * 10 mega pixel [4: 31 (30 / fps)
Network	SD Mem GUI / Ser System Support Support	ed OS *3 ed Browser	Audio Output : Cn / 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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10 Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Vindows® 7 Microsoft® Vindows® 7 Microsoft® Vindows® 7 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows® 7 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows® 7 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows® 8 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows® 8 Microsoft® Vindows® 7 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows® 8
Network	SD Mem GUI / Ser System Support Network	tup Menu Language Log ed OS *3 ed Browser IF WV-SFV631L WV-SFV611L Transmission Mode	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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10 Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Mindows® 7 Microsoft® Microsoft® Microsoft® Mindows® 7 Microsoft® Microsoft® Microsoft® Microsoft® Mindows® 7 Microsoft® Microsoft® Micrefox* * Mithemate fielt@ Microsoft® Microsoft® Micros
Network	SD Mem GUI / Se <sup>i</sup> System Support Support Network	tup Menu Language Log ed OS *3 ed Browser ed Browser wV-SFV631L WV-SFV631L Transmission Mode Frame Rate	Audio Output : Cn / 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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Kinternet Explorer® 9 (32-bit) Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 9 (32-bit) Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-T / 10DBase-TX, RJ45 connector •2 mega pixel [6: 3] (30 fps) 1,20 x 1,080 / 1,280 x 720 / 640 x 360 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 260 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 240 x 400 / 400 x 300 / 320 x 240 / 160 x 120 Constant bit rate //WBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 ps
Network	SD Mem GUI / Ser System Support Network	tup Menu Language Log ed OS *3 ed Browser ed Browser wV-SFV631L WV-SFV631L Transmission Mode Frame Rate	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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10 Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Vindows® 7 Microsoft® Windows® 7 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Vindows® 7 Microsoft® Vindows® 8 Microsoft® Vindows®
Network	SD Mem GUI / Ser System Support Network	tup Menu Language Log ed OS *3 ed Browser el Browser UF WV-SFV631L WV-SFV631L WV-SFV611L Transmission Mode Frame Bate Bit Rate/Client	Audio Output : Cn / 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 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logs Microsoft® Windows® 10 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 7 Microsoft® Kinternet Explorer® 9 (32-bit) Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 9 (32-bit) Windows® Internet Explorer® 9 (32-bit) Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen 10Base-T / 10DBase-TX, RJ45 connector •2 mega pixel [6: 3] (30 fps) 1,20 x 1,080 / 1,280 x 720 / 640 x 360 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 260 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 220 x 180 / 160 x 90 *1.3 mega pixel [6: 3] (30 fps) 1,280 x 720 / 640 x 360 / 240 x 400 / 400 x 300 / 320 x 240 / 160 x 120 Constant bit rate //WBR / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 ps
Network	SD Mem GUI / Ser System Support Network Image Resolution H.264 *4	tup Menu Language Log ed OS *3 ed Browser ed Browser wV-SFV631L WV-SFV631L Transmission Mode Frame Rate Bit Rate/Client Image Quality	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 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® 8.1 Microsoft® Windows® 7 Microsoft® Mindows® 7 Microsoft® Microsoft® Micros

		Image Quality	10 steps
Network		Refresh interval	0.1 fps - 30 fps
	JPEG		(JPEG frame rate will be restricted when displaying both JPEG and H.264 images.
		Transmission Type	Pull / Push
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
	Audio Mode		Off / Mic (Line) input / Audio output / Interactive (Half duplex) /
			Interactive (Full duplex)
	Authentication for Audio		Level 1 only / Level 2 higher / All users
	Total Bit Rate Supported Protocol FTP Client No. of Simultaneous Users		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 /
			8,192 kbps / Unlimited IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.)
			Up to 14 users (Depends on network conditions)
	SDXC/SDHC/SD		H.264 recording :
	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.		Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure 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*, 64 GB** model "SDHC card, ** SDXC card (except miniSD card and microSD card)
	Employment of two SD cards		Dual Recording for Redundancy
	Calludar	Phone Compatibility	Series Recording for long time JPEG image, AUX control (by access level)
		Terminal Compatibility	
Alarm	Alarm S	Perminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android <sup>™</sup> mobile terminals 3 terminals input, VMD, Command alarm, Audio detection alarm
Aldrin			SDXC/SDHC/SD memory recording, E-mail notification,
	Alarm Actions		HTTP alarm notification Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log		With SDXC/SDHC/SD memory card :
		5	Up to 50,000 logs for each SD memory card
	Schedule		Alarm / VMD / Access permission / H.264 recording / Scene file
Input/		r 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
	Audio Output		Input impedance : Approx. 2 kΩ (unbalanced)
		Julpul	
		Julpul	ø3.5 mm stereo mini jack (monaural output)
	Externs		ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced)
	Externa	al I/O Terminals	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 $Ω$ (unbalanced) ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT),
General			o3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT)
General	Safety		o3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 0 (unbalanced) ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-
General	Safety EMS	al I/O Terminals	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx.600 Ω (unbalanced) ALARM IN 10AY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassÅ), ICES003 ClassÅ, EN55022 ClassB, EN55024
General	Safety EMS Power	al I/O Terminals	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED Is ON
General	Safety EMS Power	al I/O Terminals	o3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L
General	Safety EMS Power	al I/O Terminals	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AV/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W
General	Safety EMS Power	al I/O Terminals	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED Is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device :
General	Safety EMS Power	al I/O Terminals	o3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3 af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device)
General	Safety EMS Power	al I/O Terminals	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AV/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W POE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L
General	Safety EMS Power	al I/O Terminals	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AV/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W
General	Safety EMS Power	al I/O Terminals	o3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W POE (IEEE802 3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W POE (IEEE802.3af compliant) Device :
General	Safety EMS Power	al I/O Terminals	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AY/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device)
General	Safety EMS Power	al I/O Terminals	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AV/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part16 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side.
General	Safety EMS Power	Source and Consumption	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AV/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
General	Safety EMS Power Power	al I/O Terminals Source and Consumption Operating Temperature	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AY/NIGHT NIN, ALARM IN 2(ALARM OUT), ALARM IN 10AY/NIGHT NIN, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. -45 °C to +50 °C (-49 °F to 122 °F)
General	Safety EMS Power Power	al I/O Terminals Source and Consumption Operating Temperature t Operating Humidity	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AV/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation)
General	Safety EMS Power Power	al I/O Terminals Source and Consumption Operating Temperature	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AY/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V / 1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. <45 °C to +50 °C (49 °F to 122 °F) 10 to 90 % (no condensation)
General	Safety EMS Power Power Ambient Ambient Water a	Al I/O Terminals	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AY/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 10AY/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W POE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power suppl : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. -45 °C to +50 °C (+49 °F to 122 °F) 10 to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant
General	Safety EMS Power Power Ambient Ambient Water a Shock	Al I/O Terminals Source and Consumption Operating Temperature t Operating Humidity and Dust Resistance Resistance	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AV/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) ** Maximum power consumption on the carnera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. -45 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant) Compliant with 50J IEC60068-2-75
General	Safety EMS Power Power Ambient Ambient Water a Shock	Operating Temperature t Operating Temperature and Dust Resistance Resistance	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AY/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V / 1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. 45 °C to +50 °C (49 °F to 122 °F) 10 to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J IEC60068-2-75 a164 mm x 139 mm (H) (66-15/32 inches x 5-15/32 inches (H))
General	Safety EMS Power Power Power Moment Ambient Ambient Water a Shock Dimens * Installin	Al I/O Terminals Source and Consumption Operating Temperature t Operating Humidity and Dust Resistance sions g using the base bracket	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AV/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W POE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J IEC60068-2-75 o164 mm x 139 mm (H) (66-15/32 inches x 5-15/32 inches (H)) Dome radius 42 mm {1-21/32 inches}
General	Safety EMS Power Power Nower Shock I Dimens 'Installin Mass (#	Operating Temperature t Operating Temperature and Dust Resistance Resistance	e3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 10AY/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 10AY/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V / 1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. -45 °C to +50 °C (49 °F to 122 °F) 10 to 90 % inc condensation) IP66, IEC600529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant W15 50J IEC60068-2-75 e164 mm x 139 mm (H) (66-15/32 inches x 5-15/32 inches (H)) Dome radius 42 mm (H) (66-15/32 inches)
General	Safety EMS Power Power Power Moment Ambient Ambient Water a Shock Dimens * Installin	Al I/O Terminals Source and Consumption Operating Temperature t Operating Humidity and Dust Resistance sions g using the base bracket	a3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 0 (unbalanced) ALARM IN 10AV/NIGHT IND, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 When IR LED is ON WV-SFV631L DC power supply : DC12 V / 1080 mA / Approx. 12.9 W POE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) WV-SFV611L DC power supply : DC12 V /1010 mA / Approx. 12.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device) * Maximum power consumption on the camera power input side. ** ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. -45 °C to +50 °C (-49 °F to 122 °F) 10 to 90 % (no condensation) IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Compliant with 50J IEC60068-2-75 o164 mm x 139 mm (H) (66-15/32 inches x 5-15/32 inches (H)) Dome radius 42 mm {1-21/32 inches}

\*1 Converted value

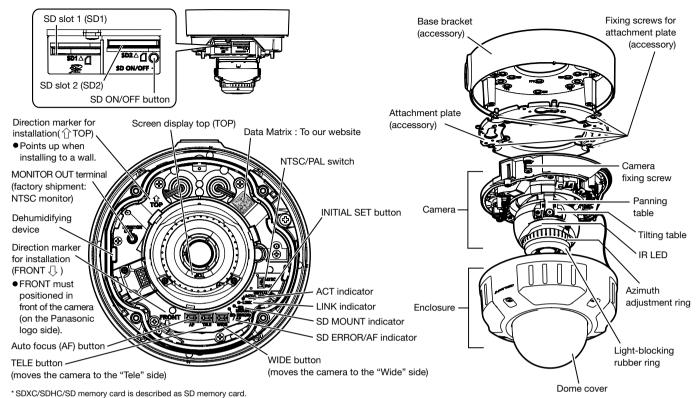
\*2 Super Dynamic function is automatically set off on 60 fps mode.

<sup>22</sup> Super Uynamic function is automatically set off on but the mode.
\*3 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8.4 / Windows® 8.1 / Windows® 10° on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 10 or Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

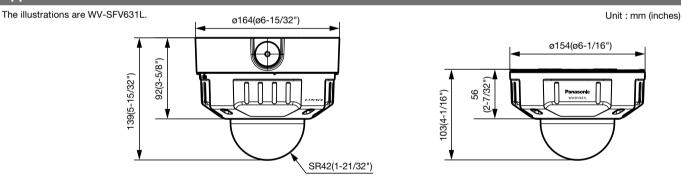
\*4 Transmission for 4 streams can be individually set.

### **Part Names and Functions**

The illustrations are WV-SFV631L.



#### Appearance



#### **Optional Accessories**



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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.
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