Panasonic

BUSINESS

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 (MV-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[™] 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-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.
- 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)
- 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

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Adjusting Browser GUI	Face St. Adaptiv Fog cor AGC Electror Day/Nig Dynami Digital 1 Video M Privacy VIQS Camera Electric Focus A Local Camera Display Camera Display Digital 2 Camera Camera Clock C Camera Clock C Camera Clock C Camera Clock C	iper Dynamic e e Black Stretch in pensation vic Sensitivity UP vic Sen	On / Off (Only when Super Dynamic : On) On / Off (Only when Super Dynamic : Off) On / Off (Only when Super Dynamic : Off) On (Onl (Only when Super Dynamic : Off) On (Low) / On (Mid) / On (High) / Off max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/600 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 Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) 133 dB typ. (Super Dynamic : On, Light Control Mode : indoor) High / Low 4 areas, Sensitivity : 15 steps, Detection size : 10 steps Up to 8 zones WV-SFV631L [16 : 9 mode] Horizontal : 28.8° (TELE) – 102.6° (WIDE) Auto Coarse adjustment of Focus ABF / MANUAL (Html only) 256 steps 2.8 - 10mm {1/8 inches - 13/32 inches} WV-SFV631L [16 : 9 mode] Horizontal : 28.8° (TELE) – 62.6° (WIDE) [4 : 3 mode] Horizontal : 26.4° (TELE) – 56.0° (WIDE) Vertical : 17.8° (TELE) – 62.4° (WIDE) Vertical : 17.8° (TELE) – 62.4° (WIDE) Vertical : 14.8° (TELE) – 51.6° (WIDE) [4 : 3 mode] Horizontal : 26.4° (TELE) – 69.3° (WIDE) 1: 1.3 (WIDE) – 1: 3.0 (TELE) * with Smart DoF (Depth of Field) mode 0.3 m - ∞ Horizontal : ±180°, Vertical : 0.85° Horizontal : ±180°, Vertical : 0.85° Horizontal : ±180°, Vertical : 0.85° Horizontal : 1480°, Vertical : 0.85° Horizontal : 1480° Horizontal : 1480° Horizontal : 1480° Horizontal : 1480° H
Adjusting Browser GUI	Fog cor AGC Electror Day/Nic Dynami Digital N Video M Video M	Interpretation Interpretation	On / Off (Only when Super Dynamic / Adaptive black stretch: Off) On (Low) / On (Mid) / On (High) / Off max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, 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. 1/30 s, max. 16/30 s Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) 133 dB typ. (Super Dynamic: On, Light Control Mode: indoor) High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 8 zones Up to 8 zones Up to 8 zones Up to 20 characters (alphanumeric characters, marks) TELE / WIDE, Auto Coarse adjustment of Focus ABF / MANUAL (Html only) 256 steps 2.8 - 10mm {1/8 inches - 13/32 inches} WV-SFV631L [16: 9 mode] Horizontal: 28.8° (TELE) – 102.6° (WIDE) 4: 3 mode] Horizontal: 23.7° (TELE) – 62.4° (WIDE) Vertical: 11.7.8° (TELE) – 62.4° (WIDE) WV-SFV611L [16: 9 mode] Horizontal: 26.4° (TELE) – 93.7° (WIDE) 4: 3 mode] Horizontal: 26.4° (TELE) – 51.6° (WIDE) 4: 3 mode] Horizontal: 20.0° (TELE) – 69.3° (WIDE) 1: 1.3 (WIDE) – 1: 3.0 (TELE) *with Smart Dof* (Depth of Field) mode 0.3 m - ∞ Horizontal: ±180°, Vertical: 0-85° Horizontal: ±180°, Vertic
Adjusting Browser GUI	Electror Day/Nig Dynami Digital N Video N Privacy ViQS Camera Focus A Angular Angular Croppir Camera Display Digital 2 Camera Camera Camera Camera Display Digital 2 Camera Display Digital 2 Camera Alarm C	int (ICR) c Range loise Reduction loition Detection Zone Title (OSD) Zoom dijustment tortion Compensation al Length Field of View m Aperture Ratio g Range Control Mode	max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/30 s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 1/60 s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 16/30 s Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) 133 dB typ. (Super Dynamic : On, Light Control Mode : indoor) High / Low 4 areas, Sensitivity : 15 steps, Detection size : 10 steps Up to 8 zones Up to 8 zones Up to 20 characters (alphanumeric characters, marks) TELE / WIDE, Auto Coarse adjustment of Focus ABF / MANUAL (Htmi only) 256 steps 2.8 - 10mm {1/8 inches - 13/32 inches} WV-SFV631L [16 : 9 mode] Horizontal : 28.8° (TELE) - 102.6° (WIDE) Vertical : 16.0° (TELE) - 86.0° (WIDE) [4 : 3 mode] Horizontal : 23.7° (TELE) - 84.3° (WIDE) Vertical : 17.8° (TELE) - 93.7° (WIDE) Vertical : 14.8° (TELE) - 51.6° (WIDE) Vertical : 14.8° (TELE) - 51.6° (WIDE) 1: 1.3 (WIDE) - 1: 3.0 (TELE) 'with Smart Dof (Depth of Field) mode 0.3 m - ∞ Horizontal : ±180°, Vertical : 0-85°
Adjusting Browser GUI	Dynami Dynami Digital N Video	c Range loise Reduction loisen Reduction Zone Title (OSD) Zoom digitstment tortion Compensation al Length Field of View m Aperture Ratio g Range Control Mode	Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) 133 dB typ. (Super Dynamic : On, Light Control Mode : indoor) High / Low 4 areas, Sensitivity : 15 steps, Detection size : 10 steps Up to 8 zones Up to 8 zones Up to 20 characters (alphanumeric characters, marks) TELE / WIDE, Auto Coarse adjustment of Focus ABF / MANUAL (Html only) 256 steps 2.8 - 10mm (1/8 inches - 13/32 inches) WW-SFV631L [16 : 9 mode] Horizontal : 28.8° (TELE) - 102.6° (WIDE) Vertical : 17.8° (TELE) - 56.0° (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) Vertical : 14.8° (TELE) - 51.6° (WIDE) Vertical : 14.8° (TELE) - 51.6° (WIDE) 1 : 1.3 (WIDE) - 1 : 3.0 (TELE) * WITH Smart Dof* (Depth of Field) mode 0.3 m - ∞ Horizontal : ±180°, Vertical : 0-85° Horizontal : ±180°, Vertical : 0-85° Horizontal : ±264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3) 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 Quas screens or 16 split screen (JP
Adjusting Browser GUI	Video N Privacy ViQS Camera Electric Focus F Lens Dis Vari Foc Angular Maximu Camera Display Camera Display Digital 2 Camera Angular Camera Angular	Interest of the second of the	4 areas, Sensitivity : 15 steps, Detection size : 10 steps Up to 8 zones Up to 8 zones Up to 20 characters (alphanumeric characters, marks) TELE / WIDE, Auto Coarse adjustment of Focus ABF / MANUAL (Html only) 256 steps 2.8 - 10mm (1/8 inches - 13/32 inches) 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 : 14.8° (TELE) – 51.6° (WIDE) 1: 1.3 (WIDE) - 1: 3.0 (TELE) *with Smart DoF (Depth of Field) mode 0.3 m - ∞ Horizontal : ±180°, Vertical : 0-85° 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(4II) / JPEG(1) / JPEG(3) 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 Quac screens or 16 split screen (JPEG only). 20 characters camera title available
Adjusting Browser GUI	VIQS Camera Electric Focus A Lens Dis Lens Dis Lens Dis Angular Maximu Focusin Angle Croppir Camera Display Digital 2 Camera	Title (OSD) Zoom Idjustment Idjus	Up to 8 zones Up to 20 characters (alphanumeric characters, marks) TELE / WIDE, Auto Coarse adjustment of Focus ABF / MANUAL (Html only) 256 steps 2.8 - 10mm {1/8 inches - 13/32 inches} WV-SFV631L [16 : 9 mode] Horizontal : 28.8° (TELE) - 102.6° (WIDE) 4 : 3 mode] Horizontal : 23.7° (TELE) - 84.3° (WIDE) 4 - 2 mode] Horizontal : 23.7° (TELE) - 84.3° (WIDE) WV-SFV611L [16 : 9 mode] Horizontal : 26.4° (TELE) - 62.4° (WIDE) WV-SFV611L [16 : 9 mode] Horizontal : 26.4° (TELE) - 63.7° (WIDE) Vertical : 14.8° (TELE) - 51.6° (WIDE) Vertical : 14.8° (TELE) - 51.6° (WIDE) Vertical : 12.0° (TELE) - 51.6° (WIDE) 1: 1.3 (WIDE) - 1: 3.0 (TELE) * with Smart DoF (Depth of Field) mode 0.3 m → Horizontal : ±180°, Vertical : 0-85° Horizontal : ±180°, Vertical : 0-85° Horizontal : ±180°, Vertical : 0-85° Horizontal : 45° (Left) to +300° (Right) H.264(1) / H.264(2) / H.264(3) / H.264(4l) / H.264(4ll) / JPEG(1) / JPEG(2) / JPEG(3) 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 Quac screens or 16 split screen (JPEG only). 20 characters camera title available
Adjusting GUI	Electric Focus A Focus	Zoom diglustment tortion Compensation tal Length Field of View m Aperture Ratio g Range Control Mode	TELE / WIDE, Auto Coarse adjustment of Focus
Adjusting Browser (GUI	Maximu Focusin Angle Croppin Camera Display Digital 2 Camera Clock D Alarm C	m Aperture Ratio g Range Control Mode	2.8 - 10mm {1/8 inches - 13/32 inches} WV-SFV631L [16 : 9 mode] Horizontal : 28.8° (TELE) – 102.6° (WIDE)
Adjusting Browser GUI	Maximu Focusin Angle Croppir Camera Display Digital Z Camera Clock D Alarm C	m Aperture Ratio g Range Control Mode	WV-SFV631L [16 : 9 mode Horizontal : 28.8° (TELE) – 102.6° (WIDE Vertical : 16.0° (TELE) – 56.0° (WIDE Vertical : 16.0° (TELE) – 56.0° (WIDE)
Adjusting Browser GUI	Focusin Angle Croppir Camera Display Digital Z Camera Clock D Alarm C	g Range Gontrol Mode	Vertical : 11.78' (TELE) = 62.4° (MDE)
Adjusting Browser GUI	Focusin Angle Croppir Camera Display Digital Z Camera Clock D Alarm C	g Range Gontrol Mode	[4 : 3 mode] Horizontal : 26.4° (TELE) – 93.7° (MIDE) Vertical : 20.0° (TELE) – 69.3° (MIDE) 1: 1.3 (MIDE) - 1 : 3.0 (TELE) *with Smart DoF (Depth of Field) mode 0.3 m - ∞ Horizontal : ±180°, Vertical : 0-85° (Left) to +300° (Right) H.264(1) / H.264(1) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3) 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 Quas screens or 16 split screen (JPEG only). 20 characters camera title available
Adjusting Browser GUI	Focusin Angle Croppir Camera Display Digital Z Camera Clock D Alarm C	g Range Gontrol Mode	0.3 m - ∞ 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 Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quas screens or 16 split screen (JPEG only). 20 characters camera title available
GUI	Camera Display Digital 2 Camera Clock D Alarm C	Control Mode Coom	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(3) 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
1	Display Digital 2 Camera Clock D Alarm C	Mode Zoom	Brightness, AUX On / Off Spot, Quad: Image from 16 cameras can be displayed in 4 different Quac screens or 16 split screen (JPEG only). 20 characters camera title available
1 0 0	Digital Z Camera Clock D Alarm C	.com	screens or 16 split screen (JPEG only). 20 characters camera title available
3	Clock D Alarm C		
\$	Alarm C		Up to 20 alphanumeric characters
:			Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset
:	One Shot Capture Audio		A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High
	SD Memory Data Download		Audio Output : On / Off Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card
5	GUI / Setup Menu Language		can be downloaded. English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	System Log		Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
\$	Supported OS '3 Supported Browser		Microsoft® Windows® 10 Microsoft® Windows® 8.1 Microsoft® Windows® 8
			Microsoft® Windows® 7 Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32-bit)
			Windows® Internet Explorer® 10 (32-bit) Windows® Internet Explorer® 9 (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	Networl	(IF	10Base-T / 100Base-TX, RJ45 connector •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
		WV-SFV631L	*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
	Image Resolution		*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 leed by cure resolution techniques
		WV-SFV611L	*Used by super resolution techniques •1.3 mega pixel [16 : 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [4 : 3] (30 fps)
-		Transmission Mode	$1,280\times960/800\times600/640\times480/400\times300/320\times240/160\times12$ Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VB
	H.264	Frame Rate Bit Rate/Client	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/ 6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576 kbps
	*4	Image Quality	Low / Normal / Fine
	•	Smart Coding mode Refresh interval	

Network	T	Image Quality	10 steps
		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 B	Bit Rate	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 /
			8,192 kbps / Unlimited
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP,
			SNMP, DHCPv6, MLD, ICMP, ARP, DiffServ
			IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTF DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, DiffSe
	FTP Cli	ient	Alarm image transmission, FTP periodic transmission
			(When the FTP transmission is failed, backup on an optional
			SDXC/SDHC/SD memory card is available.)
		Simultaneous Users	Up to 14 users (Depends on network conditions)
		SDHC/SD	H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC /
	Memor	y Card (Option)	
	* Manufactured by Panasonic		Backup upon network failure
		eed class 4 or higher)	JPEG recording :
	* Use the SD memory card that complies with UHS-1 (Ultra High Speed-1) in		Manual REC / Alarm REC (Pre/Post) / Backup upon network failure Compatible SD (SDHC/SDXC) card :
		e of SD Speed Class 10.	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 Cellular Phone Compatibility Mobile Terminal Compatibility Alarm Source		Dual Recording for Redundancy
			Series Recording for long time JPEG image, AUX control (by access level) iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals
Alarm			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
	Schedu		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) Microphone/Line Input		ø3.5mm mini jack MONITOR OUT conversion plug included MIC IN and Line IN are selectable.
	Micropriorie/Line input		
			ø3.5 mm monaural mini jack
			(monaural input) (Applicable microphone: Plug-in power type)
	Adi = (S. 4=- 4	Supply voltage: 2.5 V ±0.5 V
	Audio 0	Jutput	Input impedance : Approx. 2 kΩ (unbalanced)
			ø3.5 mm stereo mini jack (monaural output)
	F .	al I/O Terminals	Output impedance : Approx. 600 Ω (unbalanced) ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT),
	Externa		
		a i/O Terriiridis	
0	C-f-t-		ALARM IN 3(AUX OUT)
General	Safety	a vo Terrimas	ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-
General	EMS		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
General	EMS Power	Source and	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	EMS Power		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	EMS Power	Source and	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	EMS Power	Source and	ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCG (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 (IEEE602.3af compliant) Device:
General	EMS Power	Source and	ALARM IN 3(AUX OUT) UL (UIL60950-1), 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)
General	EMS Power	Source and	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	EMS Power	Source and	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 WSFV631L 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) WSFV611L DC power supply: DC12 V / 1010 mA / Approx. 12.1 W
General	EMS Power	Source and	ALARM IN 3(AUX OUT) UL (ULB0950-1), 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	EMS Power	Source and	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 (IEEE802.3 af 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 (IEEE802.3 af compliant) Device: DC48 V / 270 mA / Approx. 12.95 W* (Class 0 device)
General	EMS Power	Source and	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.
General	EMS Power Power	Source and Consumption	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 W-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) W-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.
General	Power Power	Source and Consumption	ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 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 (IEEE802.3 af 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 (IEEE802.3 af 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	Power Power Ambient Ambient	Source and Consumption Operating Temperature tt Operating Humidity	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 WSFV631L 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) WSFV611L 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 °C) 10 to 90 % (no condensation)
General	Power Power Ambient Ambient	Source and Consumption	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 (IEEE802.3 af 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 (IEEE802.3 af 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),
General	Power Ambient Ambient Water a	Source and Consumption Operating Temperature t Operating Humidity and Dust Resistance	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 (IEEE802.3 af 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 (IEEE802.3 af 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	EMS Power Power Ambient Ambient Water a	Source and Consumption Operating Temperature It Operating Humidity and Dust Resistance Resistance	ALARM IN 3(AUX OUT) UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950- FCG (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55022 When IR LED is ON W-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) W-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
General	Ambient Ambient Ambient Water a	Source and Consumption Operating Temperature t Operating Humidity and Dust Resistance Resistance	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 (IEEE802.3 af 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 (IEEE802.3 af 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 SUPPLY45 °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	Ambient Ambient Ambient Water a Shock Dimens Installin	Source and Consumption Operating Temperature tt Operating Humidity and Data Resistance Resistance sions g using the base bracket	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 (IEEE802.3 af 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 (IEEE802.3 af 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 SUPPLY45 °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	Ambient Ambient Ambient Water a Shock Dimens Installin	Source and Consumption Operating Temperature t Operating Humidity and Dust Resistance Resistance	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 (IEEE802.3 af 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 (IEEE802.3 af 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 SUPPLY45 °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))

^{*1} Converted value

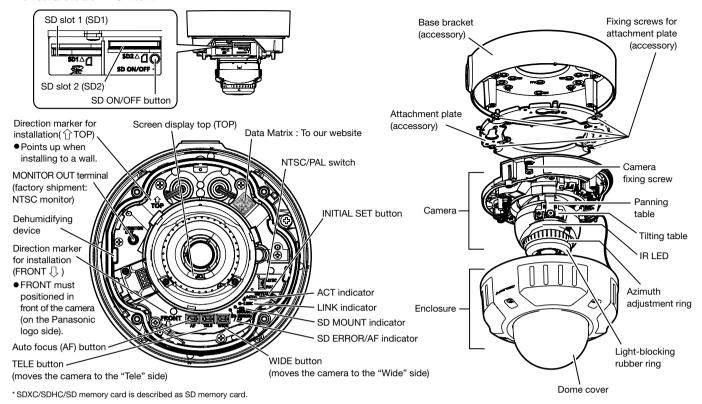
^{*2} Super Dynamic function is automatically set off on 60 fps mode.

² Super Dynamic Inductor is administrative of the Conference of th

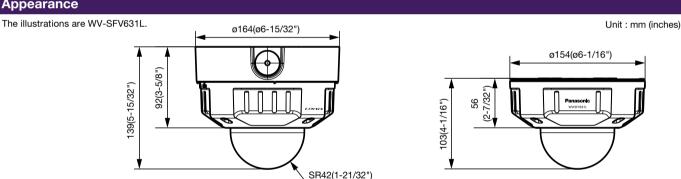
^{*4} Transmission for 4 streams can be individually set.

Part Names and Functions

The illustrations are WV-SFV631L.







Optional Accessories



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