Panasonic BUSINESS

Super Dynamic Full HD Vandal Resistant Dome Network Camera

WV-SFV130 / WV-SFV130M

Super Dynamic HD Vandal Resistant Dome Network Camera

WV-SFV110 / WV-SFV110M



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

Full HD / 1,920 x 1,080 Compact Dome Network Camera (wv-sfv130 /wv-sfv130M) HD / 1,280 x 720 Compact Dome Network Camera (wv-sfv110 / wv-sfv110M)

Key Features

- 1080p Full HD images up to 30 fps (WV-SFV130 / WV-SFV130M)
- 720p HD images up to 30 fps (WV-SFV110 / WV-SFV110M)
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 122 dB wider dynamic range compared to conventional cameras.
- Face Super Dynamic Range technology ensures clear face image.
- High sensitivity with Day/Night (Electrical) function:
 0.1 lx (Color), 0.08 lx (B/W) at F2.3 (WV-SFV130 / WV-SFV130M)
 0.04 lx (Color), 0.03 lx (B/W) at F2.3 (WV-SFV110 / WV-SFV110M)
- 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.
- 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.
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Light control modes :
- ELC (maximum exposure time):
- The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.
- 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 VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic alarm protocol output.
- 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.

- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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.
- 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

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)
- ONVIF compliant model
- · Low profile design for discrete installation
- Electronics equipment used on rolling stock

EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (E approval), EN50498 compliant (WV-SFV130M/WV-SFV110M only)

• Wide coverage

WV-SFV130 / WV-SFV130M

[16 : 9 mode] Horizontal : 108 $^{\circ}$ Vertical : 60 $^{\circ}$ WV-SFV110 / WV-SFV110M

[16 : 9 mode] Horizontal : 100 $^{\circ}$ Vertical : 55 $^{\circ}$

- The camera conforms to the IP66, Type 4X (UL50) is compliant with NEMA 4X ratings, and provides high dust resistance and waterproof performance.
- Vandal resistant mechanism for high reliability

Optional Accessory

Smoke Dome Cover
WV-CW6SA



Specifications

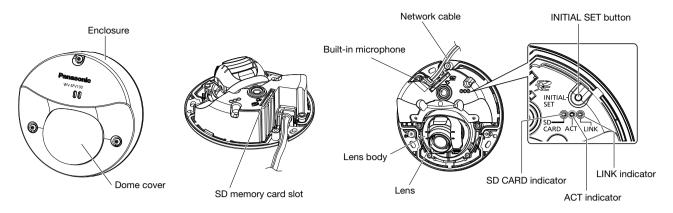
Camera	Image Sen		Progressive
	Scanning Mode Scanning WV-SFV130		
	Area	WV-SFV130M	
			4.86 mm (H) x 3.65 mm (V)
		WV-SFV110M	£
	Minimum Illumination	WV-SFV130 WV-SFV130M	Color: 0.1 lx (F2.3, Maximum shutter: Off (1/30s), AGC: High) 0.007 lx (F2.3, Maximum shutter: Max. 16/30s, AGC: High) BW: 0.08 lx (F2.3, Maximum shutter: Off (1/30s), AGC: High)
		WV-SFV110	0.005 lx (F2.3, Maximum shutter : Max. 16/30s, AGC : High) *
		WV-SFV110M	0.003 lx (F2.3, Maximum shutter : Max. 16/30s, AGC : High) BW: 0.03 lx (F2.3, Maximum shutter : Off (1/30s), AGC : High)
	White Bala	nce	0.002 lx (F2.3, Maximum shutter: Max. 16/30s, AGC: High) AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000
	Light Cont	rol Mode	ELC / Indoor scene 50 Hz / Indoor scene 60 Hz
	Super Dynamic		On (High) / On (Normal) / Off
	Dynamic ra	-	122 dB typ. (Super Dynamic : On)
	Face Super Dynamic Adaptive Black Stretch Back light compensation (BLC) Fog compensation High light compensation (HLC) AGC Maximum shutter Day/Night (Electrical)		On/ Off (only when Super Dynamic : On)
			On / Off (only when Super Dynamic : Off) On/ Off (only when Super Dynamic : Off)
			On / Off (only when Super Dynamic/ Adaptive black stretch: Off On / Off (only when Super Dynamic / Back light compensation (BLC): Of
			On (High) / On (Mid) / On (Low) / Off
			max. 1/10,000 s, max. 1/4,000 s, max. 1/2,000 s, max. 1/10,000 s, max. 1/500 s, max. 1/250 s, max. 1/250 s, max. 1/1250 s, max. 1/100 s, max. 2/120 s, max. 2/100 s, max. 3/120 s, max. 3/100 s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 6/
			max. 10/30 s, max. 16/30 s Off / Auto
Digital Noi		se Reduction on Detection	High / Low On / Off, 4 areas available On / Off (up to 8 zones available) On / Off (up to 8 zones available) Up to 20 characters (alphanumeric characters, marks), On / Of
	Privacy Zone VIQS Camera Title (OSD)		
Lens			
	Digital (electronic) zoom Zoom ratio		Choose from 3 levels of x1, x2, x4 x1
			WV-SFV130 / WV-SFV130M : 3x Extra zoom (2.0 mega pixel [16 : 9] mode)
			WV-SFV110 / WV-SFV110M : 2x Extra zoom
	Angular	WV-SFV130	[16 : 9 mode] Horizontal : 108 ° Vertical : 60 °
	1 -	WV-SFV130M	[4:3 mode] Horizontal: 89 ° Vertical: 66 °
	1 -	WV-SFV130M WV-SFV110	1
Adjusting	Field of View Maximum a Focus Dist	WV-SFV130M WV-SFV110 WV-SFV110M aperture ratio	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 °
Adjusting	Field of View Maximum a Focus Dist	WV-SFV130M WV-SFV110 WV-SFV110M aperture ratio	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall
	Maximum a Focus Dist Angle	WV-SFV130M WV-SFV110 WV-SFV110M aperture ratio ance	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90° to -90° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under)
Adjusting Browser GUI	Field of View Maximum a Focus Dist	WV-SFV130M WV-SFV110 WV-SFV110M aperture ratio ance	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to -90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only).
Browser	Maximum a Focus Dist Angle Camera Co Display Mo	WV-SFV130M WV-SFV110M wv-SFV110M apperture ratio ance	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to -90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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.
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Browser	Field of View Maximum a Focus Dist Angle Camera Ct Display Mc	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manual A still picture will be displayed on a newly opened window.
Browser	Field of View Maximum a Focus Dist Angle Camera Co Display Mo Camera Tit Clock Disp One Shot C SD Memor	WV-SFV130M WV-SFV110M WV-SFV110M apperture ratio ance ontrol ode le lay Capture y	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manual A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD
Browser	Field of View Maximum a Focus Dist Angle Camera Cc Display Mc Camera Tit Clock Disp One Shot C SD Memor Data Down	WV-SFV130M WV-SFV110M WV-SFV110M WV-SFV110M ance pontrol de de le lay capture y	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : −20 ° to +20 ° Vertical : −20 ° to +20 ° Vertical : −20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : −20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manual A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded.
Browser	Field of View Maximum a Focus Dist Angle Camera Ct Display Mc Camera Tit Clock Disp One Shot C SD Memor Data Down GUI/Setup GUI/Setup	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance pontrol ode le lay Capture y Joan	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : −20 ° to +20 ° Vertical : −20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : −20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manua A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese,
Browser	Field of View Maximum a Focus Dist Angle Camera Cc Display Mc Camera Tit Clock Disp One Shot C SD Memor Data Down	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance ontrol de le lay Capture y uload	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manual A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, Japanese Up to 100 (internal), Up to 4,000 (SDXC/SDHC/SD memory
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Browser	Field of View Maximum a Focus Dist Angle Camera Cc Display Mc Camera Tit Clock Disp One Shot C SD Memor Data Down GUI/Setup Menu Lang System Lo	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance ontrol de le lay Capture y uload guage g OS *2 *3	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90° to −90° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manual A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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, Microsoft® Windows® 7 Windows® Internet Explorer® 11 (32 bit)
Browser	Field of View Maximum a Focus Dist Angle Camera Cc Display Mc Camera Tit Clock Disp One Shot C SD Memor Data Dowr GUI/Setup Menu Lang System Lo Supported	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance ontrol de le lay Capture y uload guage g OS *2 *3	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : −20 ° to +20 ° Vertical : −20 ° to +20 ° Vertical : −20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90° to −90° Vertical : −20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time: 12H/24H/Oft, Date : 5 formats on the browser, Summer time (Manue A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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® 7 Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit)
Browser	Field of View Maximum a Focus Dist Angle Camera Cc Display Mc Camera Tit Clock Disp One Shot C SD Memor Data Dowr GUI/Setup Menu Lang System Lo Supported	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance ontrol de le lay Capture y uload guage g OS *2 *3	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : −20 ° to +20 ° Vertical : −20 ° to +20 ° Vertical : −20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90° to −90° Vertical : −20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Imme : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manuz A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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® 10, Microsoft® Windows® 8, 1 Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 8 (32 bit) Waradia (Google Chrome*, Mozilla Firefox*
Browser	Field of View Maximum a Focus Dist Angle Camera Ct Display Mc Camera Tit Clock Disp One Shot (SD Memorr Data Dome GUI/Setup Menu Lang System Lo Supported Supported	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance control dele lay Capture y gload guage g OS *2 *3 Browser	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : −20 ° to +20 ° Vertical : −20 ° to +20 ° Vertical : −20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : −20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manua A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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® 1, Microsoft® Windows® 7 Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 8 (32 bit) Safari*, Google Chrome*, Mozilla Firefox* **with limitations in the part of setting screen
Browser GUI	Field of View Maximum a Focus Dist Angle Camera Ct Display Mc Camera Tit Clock Disp One Shot 0 SD Memor Data Dowr GUI/Setup Menu Lang System Lo Supported Supported Network IF WV-SFV130	WV-SFV130M WV-SFV110M WV-SFV110M perture ratio ance ontrol de de le lay Capture y uload guage g OS "2 "3 Browser	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : −20 ° to +20 ° Vertical : −20 ° to +20 ° Vertical : −20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90° to −90° Vertical : −20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time: 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manue A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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® 7 Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit) Safari*, Google Chrome*, Mozilla Firefox* * with limitations in the part of setting screen
Browser GUI	Field of View Maximum a Focus Dist Angle Camera Co Display Mo Camera Tit Clock Disp One Shot 0 SD Memor Data Dowr GUl/Setup Menu Lang System Lo Supported Supported Network IF WV-SPV130 W-SPV130	WV-SFV130M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV110M	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time: 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manua A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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® 1.1, Microsoft® Windows® 1, Microsoft® Windows® 7 Windows® Internet Explorer® 10 (32 bit) Windows® 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 / 100Base-TX, RJ45 connector (female)
Browser GUI	Field of View Maximum a Focus Dist Angle Camera Ct Display Mc Camera Tit Clock Disp One Shot (SD Memor Data Down GUI/Setup Menu Lang System Lo Supported Supported Network IF Network	WV-SFV130M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : −20 ° to +20 ° Vertical : −20 ° to +20 ° Vertical : −20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : −20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manua A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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® 110, Microsoft® Windows® 7 Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 10 (32 bit) Windows® 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 / 100Base-TX, RJ45 connector (female) 10Base-Ty / 100Base-TX, RJ45 connector (female)
Browser GUI	Field of View Maximum a Focus Dist Angle Camera Ct Display Mc Camera Tit Clock Disp One Shot (SD Memor Data Dom GUI/Setup Menu Lang System Lo Supported Network IF WV-SFV1300 Image Resolution	WV-SFV130M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time : 12H/24H/Off, Date : 5 formats on the browser, Summer time (Manua A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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, Microsoft® Windows® 7 Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 10 (32 bit) Windows® 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 / 100Base-TX, RJ45 connector (female) 10Base-T / 100Base-TX, MJ2 connector (female) 10Base-T / 100Base-TX, RJ45 connector (female) 10Base-T / 10Base-TX, RJ45 connector (female)
Browser GUI	Field of View Maximum a Focus Dist Angle Camera Ct Display Mc Camera Tit Clock Disp One Shot (SD Memor Data Dom GUI/Setup Menu Lang System Lo Supported Network IF WV-SFV1300 Image Resolution	WV-SFV130M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV110M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M WV-SFV130M	[4 : 3 mode] Horizontal : 89 ° Vertical : 66 ° [16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3 0.5 m - ∞ Installing on a ceiling Horizontal : -20 ° to +20 ° Vertical : -20 ° to +20 ° Vertical : -20 ° to 0 ° (right under) to +90 ° (right beside) Installing on a wall Horizontal : +90 ° to −90 ° Vertical : -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness 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. Up to 20 alphanumeric characters Time: 12H/24H/Off, Date: 5 formats on the browser, Summer time (Manua A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. English, Italian, French, German, Spanish, Portuguese, Chinese, Russian, 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® 10, Microsoft® Windows® 1, Microsoft® Windows® 10, Microsoft® Windows® 7, Windows® 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) Safan', Google Chrome', Mozilla Firefox' * with limitations in the part of setting screen 10Base-T / 100Base-TX, RJ45 connector (female) 10Base-T / 100Base-TX, RJ45 connector (female) 10Base-T / 100Base-TX, M12 connector (female) 10Base-T / 100Base-TX, BJ45 connector (female)

Network	Image compression method				
Network	H.264 *5		Constant bit rate / Variable bit rate / Frame rate /		
		Mode	Best effort / Advanced VBR		
		Frame Rate	1/3/5/7.5/10/12/15/20/30 fps		
		Bit Rate per	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /		
		Client	4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 / 16,384 /		
			20,480 / 24,576 / 30,720 / 40,960 kbps		
			* The available range of the H.264 bit rate varies depending on		
			the setting selected for "image capture size".		
		Image Quality	<when best="" bit="" constant="" effort="" is="" or="" rate="" selected=""></when>		
		mage Quanty	Low / Normal / Fine		
			<when bit="" is="" rate="" selected="" variable=""></when>		
			0 Super fine /1 Fine /2 / 3 / 4 / 5 Normal / 6 / 7 / 8 / 9 Low		
		Smart Coding mode	On / Off (Only when "Variable bit rate" is selected.)		
		Transmission Type			
	JPEG	Image Quality			
	JFEG				
			0.1 fps - 30 fps		
	0	Transmission Type			
	Cropping function *6		Off / JPEG (1) / JPEG (2) / JPEG (3) / H.264 (1) / H.264 (2) /		
			H.264 (3) / H.264 (4) / H.264 (all) Alarm action On/ Off		
	Audio compression method		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC-LC '7 64 kbps AAC-LC (HIGH QUALITY)'8 64 kbps / 96 kbps / 128 kbps		
	Bandwidth control		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps		
	Supported Protocol		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, ARI		
	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.)		
	Maximum concurrent		Up to 14 users (Depends on network conditions)		
	access number		op to 11 deere (poperide en netheric conditions)		
	SDXC/SDHC/SD		Manufactured by Panasonic (SD speed class 4 or higher)		
	Memory Card(Option)				
			SDXC memory card : 64 GB, 128 GB		
			SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB		
			SD memory card : 2 GB		
	0 11 1 10 0 171 171		(except miniSD card and microSD card)		
	Cellular Phone Compatibility		JPEG image		
	Mobile Terminal Compatibility		iPad, iPhone, iPod touch(iOS 4.2.1 or later),		
			Android™ mobile terminals		
Alarm	Alarm Sou	rce	VMD, Command alarm, Audio detection alarm		
	Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification,		
			Indication on browser, FTP image transfer, Panasonic protocol outpu		
	Alarm Log		With SDXC/SDHC/SD memory card : 5,000 logs		
	Schedule		VMD		
General	Safety/EMC Standard		<safety></safety>		
			UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-		
			<emc></emc>		
			FCC Part15 ClassA, ICES003 ClassA, EN55022 ClassB, EN55024		
	Power Source and		PoE (IEEE802.3af compliant)		
	Power Consumption				
	Power Co	nsumption	148 V DC: 90 mA / Approx. 4.3 W (Class 2 device)		
		nsumption	48 V DC : 90 mA / Approx. 4.3 W (Class 2 device)		
	Ambient		-40 °C to +60 °C {-40 °F to 140 °F}		
	Ambient Operating	Temperature	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F})		
	Ambient Operating Ambient Op	Temperature erating Humidity	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation)		
	Ambient Operating Ambient Op Built-in mi	Temperature erating Humidity crophone	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone		
	Ambient Operating Ambient Op Built-in mi Shock res	Temperature erating Humidity crophone istance	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262)		
	Ambient Operating Ambient Ope Built-in mi Shock res Waterprod	Temperature erating Humidity crophone istance	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant °9		
	Ambient Operating Ambient Ope Built-in mi Shock res Waterprod	Temperature erating Humidity crophone istance	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant		
	Ambient Operating Ambient Operating Ambient Operating Built-in mi Shock res Waterproc	Temperature erating Humidity crophone istance of idard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (E approval), EN50498 compliant (WV-SFV130M/WV-SFV110M only		
	Ambient Operating Ambient Ope Built-in mi Shock res Waterprod	Temperature erating Humidity crophone istance of idard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant CC-R10 (E approva), EN50498 compliant (W-SFV130M/WV-SFV110M only) Installing using the mount bracket:		
	Ambient Operating Ambient Operating Ambient Operating Built-in mi Shock res Waterproc	Temperature erating Humidity crophone istance of idard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (E approval), EN50498 compliant (WV-SFV130M/WV-SFV110M only Installing using the mount bracket: ø109 mm × 70 mm (H) {ø4-9/32 inches × 2-3/4 inches (H)}		
	Ambient Operating Ambient Operating Ambient Operating Built-in mi Shock res Waterproc	Temperature erating Humidity crophone istance of idard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 ENS0155-T3 (railroad standard) / ENS0121, EN45545 compliant ECE-R10 (E approval), EN50498 compliant (WV-SFV130M/WV-SFV110M only Installing using the mount bracket: 109 mm x 70 mm (H) (o4-9/32 inches x 2-3/4 inches (H)) Dome radius 54 mm {2-1/8 inches}		
	Ambient Operating Ambient Operating Ambient Operating Built-in mi Shock res Waterproc	Temperature erating Humidity crophone istance of idard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (E approva), EN50498 compliant (WV-SFV130M/WV-SFV110M only Installing using the mount bracket: ±109 mm × 70 mm (H) {64-9/32 inches × 2-3/4 inches (H)} Dome radius 54 mm (2-1/8 inches) Installing on a wall or a ceiling directly:		
	Ambient Operating Ambient Operating Ambient Operating Built-in mi Shock res Waterproc	Temperature erating Humidity crophone istance of idard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant CEC-R10 (E approval), EN50498 compliant (W-SFV130M/WV-SFV110M only) Installing using the mount bracket: a109 mm x 70 mm (H) (a4-9/32 inches x 2-3/4 inches (H)) Dome radius 54 mm {2-1/8 inches} Installing on a wall or a ceiling directly: ø109 mm x 47 mm (H) (ø4-9/32 inches x 1-27/32 inches (H))		
	Ambient Operating Ambient Operating Ambient Operating Built-in mi Shock res Waterproc	Temperature erating Humidity crophone istance of idard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (E approva), EN50498 compliant (WV-SFV130M/WV-SFV110M only Installing using the mount bracket: ±109 mm × 70 mm (H) {64-9/32 inches × 2-3/4 inches (H)} Dome radius 54 mm (2-1/8 inches) Installing on a wall or a ceiling directly:		
	Ambient Operating Ambient Operating Ambient Operating Built-in mi Shock res Waterproc	Temperature erating Humidity crophone istance of dard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant CEC-R10 (E approval), EN50498 compliant (W-SFV130M/WV-SFV110M only) Installing using the mount bracket: a109 mm x 70 mm (H) (a4-9/32 inches x 2-3/4 inches (H)) Dome radius 54 mm {2-1/8 inches} Installing on a wall or a ceiling directly: ø109 mm x 47 mm (H) (ø4-9/32 inches x 1-27/32 inches (H))		
	Ambient Operating Ambient Op Built-in mi Shock res Waterproc Other stan	Temperature erating Humidity crophone istance of dard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (E approval), EN50498 compliant (WV-SFV130M/WV-SFV110M only Installing using the mount bracket: ø109 mm × 70 mm (H) {ø4-9/32 inches × 2-3/4 inches (H)} Dome radius 54 mm {2-1/8 inches} Installing on a wall or a ceiling directly: ø109 mm × 47 mm (H) {ø4-9/32 inches × 1-27/32 inches (H)} Dome radius 54 mm {2-1/8 inches}		
	Ambient Operating Ambient Op Built-in mi Shock res Waterproc Other stan	Temperature erating Humidity crophone istance of dard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (Eapproval), EN50498 compliant (WV-SFV130M/WV-SFV110M only Installing using the mount bracket: ø109 mm × 70 mm (H) {ø4-9/32 inches × 2-3/4 inches (H)} Dome radius 54 mm {2-1/8 inches} Installing on a wall or a ceilling directly: ø109 mm × 47 mm (H) {ø4-9/32 inches × 1-27/32 inches (H)} Dome radius 54 mm {2-1/8 inches} When using mount bracket : Approx. 410 g {0.9 lbs}		
	Ambient Operating Ambient Operating Ambient Op Built-in mi Shock res Waterproc Other stan Dimension Mass (app	Temperature erating Humidity crophone istance of dard support	-40 °C to +60 °C {-40 °F to 140 °F} (Power On range : -30 °C to +60 °C {-22 °F to 140 °F}) 10 % to 90 % (no condensation) Nondirectional electret condenser microphone Compliant with 50J (IEC 60068-2-75) / IK10 (IEC 62262) IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant '9 EN50155-T3 (railroad standard) / EN50121, EN45545 compliant ECE-R10 (E approval), EN50498 compliant (W-SFV130M/W-SFV110M only) Installing using the mount bracket: a109 mm x 70 mm (H) (ø4-9/32 inches x 2-3/4 inches (H)) Dome radius 54 mm (2-1/8 inches) Installing on a wall or a ceiling directly: a109 mm x 47 mm (H) (ø4-9/32 inches x 1-27/32 inches (H)) Dome radius 54 mm (2-1/8 inches) When using mount bracket: Approx. 410 g (0.9 lbs) Installing on a wall or a ceiling directly: Approx. 350 g (0.77 lbs)		

- *2 Refer to "Notes on Windows® 7 / Windows® 8 / 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.
- "3 When using IPv6 for communication, use Microsoft® Windows® 10 or Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7.

 *4 Used by super resolution techniques
- *5 Transmission for 4 streams can be individually set.
- $^{\star}\!6$ Cropping setting is not possible for stream set to maximum resolution.
- $^{\star}7~\text{Only use AAC-LC (Advanced Audio Coding Low Complexity)}~\text{when recording audio on an SD memory card}.$
- *8 When "AAC-LC (HIGH QUALITY)" is selected, there are limitations about the following function.
 "SD memory card" is not available.
- "Audio detection" is not available.
- · HTTPS is not available.
 · The maximum concurrent access number is limited to 5
- *9 Only when installation work is properly performed and appropriate waterproof
- *10 Component that has a structure on which the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver

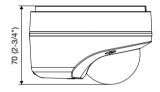
Part Names and Functions

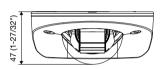


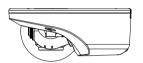
* These illustrations are WV-SFV130.

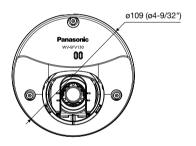
Appearance

Unit: mm (inches)









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 Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.
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- Masses and dimensions are approximate.
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