Panasonic **BUSINESS**

Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camera

WV-SFV311A





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

HD / 1,280 x 720 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- 720p HD images up to 60 fps*1
- Approximate 1/3 inches, high sensitivity MOS image sensor
- Maximum Screen Size is 1.980 x 1.080* @30 fps. H.264 * Used by super resolution technology
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Enhanced Super Dynamic*1 and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- Smart coding Technology: Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding. Auto VIQS (Variable Image Quality on Specified area) function recognizes the no movement area in a video automatically and lowering the resolution of it to reduce the data size.
 - With the latest bit rate reducing technology, GOP control, Auto VIQS, 3D-MNR (Multi process Noise Reduction) and FDF (Frequency Divided Filter), the network bandwidth and the disk space of recorder can be saved.
- High sensitivity with Day/Night (ICR*: WV-SFV311A, Electrical: WV-SFV310A) function: WV-SFV311A: 0.01 lx (Color), 0.003 lx (B/W) at F1.6 WV-SFV310A: 0.01 lx (Color), 0.008 lx (B/W) at F1.6 *ICR: IR Cut filter Removal
- New camera attachment bracket allows an easy camera installation toward all four directions.
- ABF (Auto Back Focus) ensures easy installation.
- 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.

- 2x 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. (WV-SFV311A only)
- 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.
- 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.
- SCC (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.

Optional Accessories Ceiling Mount Bracket Smoke Dome Cover Sun Shade WV-Q169A WV-CW7S WV-Q7118 Ceiling Mount Bracket Wall Mount Bracket Mount Bracket WV-Q121B WV-Q122A WV-Q124 (Use with the WV-Q124 (Use with the WV-Q124 (Use when installing the WV-SFV311A / WV-SFV310A to be able to install on a ceiling.) to be able to install on a wall. using the WV-Q122A.)

Specifications

Spec	,IIIC	400110	
	Image S	Sensor	Approx. 1/3 type MOS image sensor
		ng Mode	Progressive scan
	Scannir	•	4.86 mm (H) x 3.89 mm (V) {3/16 inches(H) x 5/32 inches(V)}
	Minimu	m Illumination	WV-SFV311A Color: 0.01 k, BW: 0.003 k: (F1.6, Maximum shutter: Max. 1/30s, Gain: On(High)) Color: 0.0007 k, BW: 0.0002 k: (F1.6, Maximum shutter: Max. 16/30s, Gain: On(High))
			Color: 0.0007 kr, DV: 0.0002 kr (F16, Maximum shutter : Max. Off (f/30s), Gain : On(High) (Color: 0.01 kr, BW: 0.008 kr (F1.6, Maximum shutter : Max. Off (f/30s), Gain : On(High) (Color: 0.0007 kr, BW: 0.0005 kr(F1.6, Maximum shutter : Max. 16/30s, Gain : On(High))
	White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	Light Control Mode		Outdoor scene/ Indoor scene (50 Hz)/ Indoor scene (60 Hz)/ Fix shutter
	Shutter Speed		[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 [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)
	Fog compensation		On / Off (Only when Super Dynamic/ Adaptive black stretch: Off)
	AGC		On (Low, Mid, High) / Off
	Maximum shutter Day/Night		max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 1/100 s, max. 2/120 s, max. 2/100 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 WV-SFV311A: ICR
	Day/Nigrit		WV-SFV310A : Electrical Mode : Off / AUTO W-SFV310A : Electrical Mode : Off / AUTO
	Dynamic Range		133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
	Digital Noise Reduction		High / Low
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
			On/ Off (up to 8 zones available)
	Privacy Zone / VIQS		
	Camera Title (OSD)		On / Off, Up to 20 characters (alphanumeric characters, marks)
	Electric Zoom		TELE / WIDE , Auto Coarse adjustment of Focus
	Focus Adjustment		ABF / MANUAL(Html only)
	Lens Distortion Compensation		256 steps
Lens	Vari Foc	al Length	2.8 – 10 mm {1/8 inches – 25/64 inches}
	Angular Field of View		[16:9 mode] Horizontal : 28° (TELE) – 99° (WIDE) Vertical : 16° (TELE) – 54° (WIDE)
			[4:3 mode] Horizontal: 28° (TELE) – 99° (WIDE) Vertical: 21° (TELE) – 72° (WIDE)
	Maximum Aperture Ratio		1:1.6 (WIDE) - 1:3.4 (TELE)
	Focusing Range		0.3 m − ∞
Adjusting			Horizontal: ±180° Vertical: ±85° Slant: ±100°
	Cropping		
GUI			H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3
GUI			Up to 4 image capture areas can be specified
	Camera Control		Brightness, AUX On / Off
	Display Mode		Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
	Digital Zoom / Camera Title		screens or 16 split screen (JPEG only). 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI / Up to 20 alphanumeric characters
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual
	Alarm C		Reset
	One Shot Capture		A still picture will be displayed on a newly opened window.
	Audio (WV-SFV311A only)		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High Audio Output: On / Off Volume adjustment: Low / Middle / High
	_	nory Data Download	Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
	-		English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
	GUI / Setup Menu Language System Log		Up to 100 (Internal)
	Support	and OS ₂₃	Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8.1, Microsoft® Windows® 8,
	Supported OS ³		Microsoft® Windows® 7, Microsoft® Windows Vista®
	Cupport	ad Prouser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit),
	Supported Browser		Windows Internet Explorer 11 (32 bit), Windows Internet Explorer 10 (32 bit), Windows Internet Explorer 9 (32 bit), Windows Internet Explorer 7 (32 bit), Windows Internet Explorer 7 (32 bit)
			Safari, Google Chrome, Mozilla Firefox
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector
	Image I	Resolution	•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)
			1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120
			•2 mega pixel [16:9] (30 fps) * Used by super resolution technology
			1,920 x 1,080* / 640 x 360 / 320 x 180 / 160 x 90
	H.264 ⁴	Transmission Mode	Constant bitrate / Variable bit rate / Framerate priority / Best effort / Advanced VBR
	H.264*	Frame Rate	1/3/5/7.5/10/12/15/20/30/60 fps
	H.264*	Frame Rate Bit Rate/Client	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps
	H.264*	Frame Rate Bit Rate/Client Image Quality	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine
	H.264*	Frame Rate Bit Rate/Client Image Quality Smart Coding mode	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)
	H.264*	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low/Normal/Fine On (Low/Mid/High)/Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s
	H.264*	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected)
	JPEG	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low/ Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s
		Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type	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/ 10,240/12/286/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s Unicast / Multicast 10 steps
	JPEG	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/394/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s Unicast / Multicast 10 steps 01 fps-30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images, Pull / Push
	JPEG Audio C (WV-SF	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only)	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/11/2/3/4/5s Unicast / Multicast 10 steps 01 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images; Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
	JPEG Audio C (WV-SF	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/394/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s Unicast / Multicast 10 steps 01 fps-30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images, Pull / Push
	JPEG Audio C (WV-SF Audio Mo	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only)	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,195/10,240/12,286/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/11/2/3/4/5s Unicast / Multicast 10 steps 01 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC
	JPEG Audio C (WV-SF Audio Mo Authent	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only) de (WV-SFV311A only)	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,192/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s Unicast / Multicast 10 steps 0.1 fps-30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off/Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
	JPEG Audio C (WV-SF Audio Mo Authent (WV-SF	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only) de (WV-SFV311A only) cation for Audio V311A only)	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,195/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/55 Unicast / Multicast 10 steps 0.1 [ps-30] ps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users
	JPEG Audio C (WV-SF Audio Mo Authent (WV-SF Total Bit	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only) de (WV-SFV311A only) cation for Audio V311A only)	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,195 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,195 Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/55 Unicast / Multicast 10 steps 0.1 (ps-30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All 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, DMS, NTP, SMMP,
	JPEG Audio C (WV-SF Audio Mo Authent (WV-SF Total Bit	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only) de (WV-SFV311A only) ication for Audio V311A only) Rate	1/3/5/7.5/10/12/15/20/30/60 ps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,196 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,196 Chow/ Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s Unicast / Multicast 10 steps 0.1 (ps-30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images; Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All 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
	JPEG Audio C (WV-SF Audio Mo Authent (WV-SF Total Bit	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only) de (WV-SFV311A only) ication for Audio V311A only) Rate led Protocol	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,195/10,240/12,288/14,336/16,384/20,480/24,576/30,720/40,960 kbps Low / Normal / Fine On (Low / Mid / Highl) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/5s Unicast / Multicast 10 steps 01 fps-30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All 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, DHCPA6, MLD, IcMP, ARP SMTP, DHCPA6, MLD, IcMP, ARP SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPNP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission
	JPEG Audio C (WV-SF Audio Mo Authent (WV-SF Total Bit Support	Frame Rate Bit Rate/Client Image Quality Smart Coding mode Refresh interval Transmission Type Image Quality Refresh interval Transmission Type ompression V311A only) de (WV-SFV311A only) ication for Audio V311A only) Rate led Protocol	1/3/5/7.5/10/12/15/20/30/60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,195 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,195 Low / Normal / Fine On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2/0.25/0.33/0.5/1/2/3/4/55 Unicast / Multicast 10 steps 0.1 (ps-30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images. PUII / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All 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, CMP, ARP SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP

SDXC/SDHC/SD	H.264 recording:
	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure
* Manufactured by Panasonic	
(SD speed class 4 or higher)	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**, 128 GB**model
SD Speed Class 10.	*SDHC card, ** SDXC card (except miniSD card and microSD card)
Cellular Phone Compatibility	JPEG image, AUX control (by access level)
Mobile Terminal Compatibility	
Alarm Source	3 terminals input, VMD, Command alarm, Audio detection alarm (WV-SFV311A only)
Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification Indication on browser, FTP image transfer, Panasonic protocol output
Alarm Log	With SDXC/SDHC/SD memory card: Up to 50,000 logs for each SD memory card
Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file
Monitor Output	VBS: 1.0 V [p-p] / 75 Ω, composite, ø3.5 mm monaural mini jack
(for adjustment)	An NTSC or PAL signal can be outputted from camera
	(either press the INITIAL SET switch quickly (within 1 second) or use
	software to select NTSC or PAL signal).
	ø3.5 mm monaural mini jack (monaural input)
(WV-SFV311A only)	(Applicable microphone : Plug-in power type)
	Supply voltage : $2.5 \text{ V} \pm 0.5 \text{ V}$ Input impedance : Approx. $2 \text{ k}\Omega$ (unbalanced)
Audio Output(WV-SFV311A only)	ø3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced)
External I/O Terminals	ALARM IN 1 (DAY/NIGHT IN*, Auto time adjustment),
	ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT)
	*WV-SFV311A only
Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
Power Source and	DC power supply: DC12 V / 710 mA / Approx. 8.5 W
Power Consumption	PoE (IEEE802.3af) : DC48 V / 200 mA / Approx. 9.6 W (Class 0 device)
Ambient Operating Temperature	-40 °C to +50 °C (-40 °F to 122 °F)
Ambient Operating Humidity	10 to 90 % (no condensation)
Impact Protection	IEC 60068-2-75 test Eh, 50J / IEC 62262 IK10
Water and Dust Resistance	IP66, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant
Shock Resistance	Compliant with 50J IEC60068-2-75
Dimensions	ø164 mm x 139 mm (H) {ø6-15/32 inches x 5-15/32 inches (H)}
* Installing using the base bracket	() ()
	When using base bracket : 1.6 kg {3.53 lbs}
	When using attachment plate : 1.2 kg {2.65 lbs}
Finish	Main body : Aluminum die cast, light gray
	(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. Cellular Phone Compatibility Mobile Terminal Compatibility Alarm Source Alarm Actions Alarm Log Schedule Monitor Output (for adjustment) Microphone/Line Input (WV-SFV311A only) Audio Output(WV-SFV311A only) External I/O Terminals Safety EMS Power Source and Power Consumption Ambient Operating Humidity Impact Protection Water and Dust Resistance Dimensions Installing using the base bracket Mass (approx.)

- | Dome cover : Clear polycarbonate resin

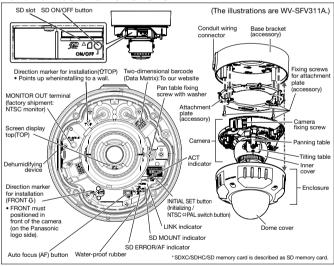
 1 Converted value

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

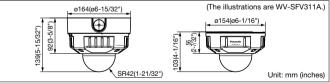
 3 Refer to "Notes on Windows Vistae / Windowse 7 / Windowse 8 / Windowse 8.1" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsofte Windowse 8.1 or Microsofte Windowse 8 or Microsofte Windowse 7 or Microsofte Windowse Vistae.

 4 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



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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.
- Masses and dimensions are approximate. Specifications are subject to change without notice.

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