Panasonic BUSINESS

Super Dynamic HD Dome Network Camera

WV-SFN311 WV-SFN310



1-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 Network Camera featuring Super Dynamic

Key Features

- 720p HD images up to 60 fps*1
- Approximate 1/3 inches, high sensitivity MOS image sensor
- Super high resolution at HD/1,280 x 720 created by high sensitivity MOS image sensor.
- 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.
- Multi process NR & 3D-DNR ensures noise reduction in various conditions.
- High sensitivity with Day/Night(ICR*: WV-SFN311, Electrical: WV-SFN310) function: WV-SFN311: 0.01 lx (Color), 0.003 lx (B/W) at F1.6 WV-SFN310: 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. (WV-SFN311 only)
- 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.
- Electronic sensitivity enhancement: Auto (Up to 16/30s) / OFF
- 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.
- Camera title display: Up to 20 alphanumeric characters on the browser

- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic alarm protocol output.
- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site. (WV-SFN311 only)
- 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.
- 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 network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode: H.264 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model
- *1 Super Dynamic function is automatically set off on 60 fps mode

Optional Accessories

Ceiling Mount Bracket
WV-Q105A



Ceiling Mount Bracket
WV-Q174B



Smoke Dome Cover



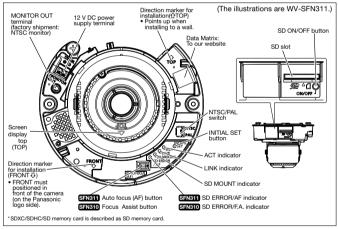
Specifications

	Image Sensor Scanning Mode		Progressive scan
	Scannin		4.864 mm (H) x 3.891 mm (V) {3/16 inches(H) x 5/32 inches(V) }
		m Illumination	WV-SFN311 Color: less than 0.01 lx, BW : 0.003 lx
	IVIINIMUI	m Illumination	
			(F1.6, Maximum shutter : Max. 1/30s, Gain : On(High))
			Color: less than 0.0007 lx, BW : 0.0002 lx
			(F1.6, Maximum shutter : Max. 16/30s, Gain : On(High)) ¹¹
			WV-SFN310 Color: less than 0.01 lx, BW: 0.008 lx
			(F1.6, Maximum shutter : Max. Off (1/30s), Gain : On(High))
			Color: less than 0.0007 lx, BW: 0.0005 lx
			(F1.6, Maximum shutter : Max. 16/30s, Gain : On(High)) ¹
	White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)
	-		
	Light Go	ontrol Mode	Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 Hz]: Automatic integration of ALC and ELC with flickerles
	Chuttor	Speed	Indoor scene [60 Hz]: Automatic integration of ALC and ELC with flickerles
	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
	Super Dynamic ²		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
			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		
		npensation	On / Off (Only when Super Dynamic / Adaptive black stretch : Off)
	AGC		On (Low, Mid, High) / Off
	Electron	nic Sensitivity UP	max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30
	Do:/Nlio	Day/Night	WV-SFN311: ICR
	Day/Nig		Mode: Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
			WV-SFN310: Electrical
	D	- D	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
	Privacy Zone		Up to 8 zones
			Up to 8 zones
	VIQS		
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)
	Electric	Zoom	TELE / WIDE , Auto Coarse adjustment of Focus
	Focus A	djustment	WV-SFN311: ABF / MANUAL(Html only) WV-SFN310: Focus Assist 256 steps
	-	stortion Compensation	
			'
Lens		al Length	2.8 - 10mm {1/8 inches - 13/32 inches}
	Angular	Field of View	[16:9 mode] Horizontal: 27.9° (TELE) – 100.5° (WIDE)
			Vertical : 15.7° (TELE) – 54.8° (WIDE)
			[4:3 mode] Horizontal: 27.9° (TELE) – 100.0° (WIDE) Vertical: 21.0° (TELE) – 73.9° (WIDE)
	Maximum Aperture Ratio		1 : 1.6 (WIDE) - 1 : 4.0 (TELE)
		g Range	0.3 m - ∞
		y nanye	
Adjusting	Angle		Horizontal: ± 180°, Vertical: ± 85°,
			Image tilt adjustment range: -225°(Left) to +120°(Right)
	Cropping		
Browser	Croppin	ıg	
Browser GUI			Up to 4 image capture areas can be specified
Browser GUI		Control	H.264(1)/H.264(2)/H.264(3)/H.264(4)/H.264(4)/JPEG(1)/JPEG(2)/JPEG(Up to 4 image capture areas can be specified Brightness, AUX On / Off
Browser GUI		Control	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad
Browser GUI	Camera	Control	Up to 4 image capture areas can be specified Brightness, AUX On / Off
Browser GUI	Camera	Control Mode	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available.
Browser GUI	Camera Display Digital Z	Control Mode	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI
Browser GUI	Camera Display Digital Z Camera	Control Mode Coom	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters
Browser GUI	Camera Display Digital Z Camera Clock D	Control Mode Coom Title isplay	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua
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Browser GUI	Camera Display Digital Z Camera Clock D Alarm C One She Audio	Control Mode Coom Title isplay control	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Hig Audo Output (W-SFNS11 only): On / Off Volume adjustment: Low / Middle / Hig
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Browser GUI	Camera Display Digital Z Camera Clock D Alarm C One She Audio	Control Mode Coom Titile isplay control ot Capture nory Data Download stup Menu Language	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SPN311 only) : On / Off Volume adjustment : Low / Middle / Hig Sill or motion images recorded in the SDXC/SDHC/SD memory card can be downloadec English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes
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3rowser GUI	Camera Display Digital Z Camera Clock D Alarm C One She Audio SD Men GUI / Se System Support	Control Mode Coom Tittle isplay control ot Capture nory Data Download etup Menu Language Log ted OS 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. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : O
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aUI	Camera Display Digital Z Camera Clock D Alarm C One Shi Audio SD Men GUI/Se System Support Network	Control Mode Coom ITitle Splay Control Ot Capture Cory Data Download Stup Menu Language Log Led OS ³ Led Browser K IF	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SPN311 only) : On / Off Volume adjustment : Low / Middle / Hig Bill or motion Images recorded in the SDWCSPHCSD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDWCSPHC/SD memory when the recording format is set to JPEG.) error log Microsoft Windows® 1.1 Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 7 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [16 : 9] (30/66 fps)
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aUI	Camera Display Digital Z Camera Clock D Alarm C One Shi Audio SD Men GUI/Se System Support Network	Control Mode Coom ITitle Splay Control Ot Capture Cory Data Download Stup Menu Language Log Led OS ³ Led Browser K IF	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Hig Audio Output (WV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Still or motion Images recorded in the SDX/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDX/SDHC/SD memory when the recording format is set to JPEG, Jerro log Microsoft Windows 8.1, Microsoft Windows 8.1, Microsoft Windows 9 (32 bit), Windows 9 Internet Explorer 9 (32 bit), 9 Internet 9 Intern
aUI	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom Tititle isplay control ot Capture nory Data Download etup Menu Language Log ted OS ³ ted Browser k IF	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Bill or motion Images recorded in the SDIX/SDH/CSD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDIX/SDH/C/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 1.1, Microsoft® Windows® 8, Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit), Windows® Internet Explorer® 7 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® 1, 18 pict 116: 91 (30/606 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
aUI	Camera Display Digital Z Camera Clock D Alarm C One Shi Audio SD Men GUI/Se System Support Network	Control Mode Coom ITitle isplay Control ot Capture Incorp Data Download Stup Menu Language Log Ited OS ³ Ited Browser ITransmission Mode	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is to / PEG Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / Middle / Hig Audio Output (MV-SFN311 only) : On / Off Volume adjustment is tow / On / Only
GUI	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom Tittle isplay control ot Capture mory Data Download stup Menu Language Log ted OS ³ ted Browser KIF Transmission Mode Frame Rate	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft Windows 8 1, Microsoft Windows 8 Microsoft Windows 9 (32 bit), Windows 9 Internet Explorer 9 (32 bit), Windows 9 Internet Explorer 9 (32 bit), Windows 9 Internet Explorer 7 (32 bit) 10 Base-T / 100 Base-TX, RJ45 connector *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 [1: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps
GUI	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom ITitle isplay Control ot Capture Incorp Data Download Stup Menu Language Log Ited OS ³ Ited Browser ITransmission Mode	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Bill or motion Images recorded in the SDX/CSPHCSD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDX/CSPHC/SD memory when the recording format is set to JPEG) emor log Microsoft® Windows® 1.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vist 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) 1.280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1.280 x 980 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64 / 128 / 2566 / 384 / 512 / 766 / 1.024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,158
GUI	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom Tittle isplay Control ot Capture nory Data Download stup Menu Language Log ted OS ³ ted Browser ITransmission Mode Frame Rate Bit Rate/Client	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / On
GUI	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom Tittle isplay control ot Capture mory Data Download stup Menu Language Log ted OS ³ ted Browser KIF Transmission Mode Frame Rate	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downleaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microseff® Windows® 1, Microseff® Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector *1.3 mega pixel [1e: 9] (30/60 fps) 1,280 x 790 / 640 x 360 / 320 x 180 / 160 x 90 *1.3 mega pixel [1e: 9] (30/60 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bitrate / Framerate priority / Best effort / Advanced VBR 1/ 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64/ 128/ 1256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,19 Low / Normal / Fine
àU I	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom Tittle isplay Control ot Capture nory Data Download stup Menu Language Log ted OS ³ ted Browser ITransmission Mode Frame Rate Bit Rate/Client	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / Off Volume adjustment is tow off Windows Audio Output (Mv-SFN311 only): On / On
àU I	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom Tittle Sisplay Control Total Transmission Mode Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Buill or motion Images recorded in the SDX/CSPHCSD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDX/CSPHC/SD memory of an order of the Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 1, Microsoft® Windows® 1, 189 (32 bit), Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 1 (32 bit), Windows® Internet Explorer® 7 (32 bit) Windows® Internet Explorer® 7 (32 bit) UBase=T / 100Base=TX, RJ45 connector *1.3 mega pixel [16: 9] (30/66 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 800 / 540 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bitrate / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64/128/256/384/512/768/1,024/1,536/2,048/3,072/4,096/6,144/8,19 /10,240/12,288/14,336 / 16,384/20,480/24,576 kbps
àU I	Camera Display Digital 2 Camera Clock D Alarm C Gone Sh Audio SD Men Gull/Se System Suppor Networl Image Resolut H.264 ⁴	Control Mode Coom ITitle isplay Control ot Capture Dorry Data Download citup Menu Language Log ted OS® ted Browser KIF ITransmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment : Low / Middle / Hig Bill or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error log Microsoft® Windows® 11, Microsoft® Windows® 8, Microsoft® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 19 (32 bit), Windows® Internet Explorer® 19 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 10 (3006 fps) 1.3 mega pixel [16 : 9] (3006 fps) 1.280 x 960 / 800 x 800 / 600 x 60
àU I	Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Men Suppor Suppor Suppor Networl	Control Mode Coom Tritle Isplay Control Ot Capture Inory Data Download Stup Menu Language Log Ited OS ⁻³ Ited Browser Ited Browser Ited Browser Ited Browser Item Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Image Quality	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / On
GUI	Camera Display Digital 2 Camera Clock D Alarm C Gone Sh Audio SD Men Gull/Se System Suppor Networl Image Resolut H.264 ⁴	Control Mode Coom ITitle Sisplay Control Total Coom ITitle Sisplay Control Tot Capture Tot Capture Tot Capture Ted OS ³ Ted Browser Cool Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / On
GUI	Camera Display Digital 2 Camera Clock D Alarm C Gone Sh Audio SD Men Gull/Se System Suppor Networl Image Resolut H.264 ⁴	Control Mode Coom Tritle Isplay Control Ot Capture Inory Data Download Stup Menu Language Log Ited OS ⁻³ Ited Browser Ited Browser Ited Browser Ited Browser Item Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Image Quality	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (MV-SFN311 only): On / On
àU I	Display Z Camera Display Digital Z Camera Clock D Alarm C One Sh Audio SD Mene Suppor Suppor Networl Image Resolut H.264 ^a	Control Mode Coom ITitle Isplay Control Total Isplay Control Tot Capture Tot Capture Tot Capture Tot Capture Tot Capture Tot Capture Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Image Quality Refresh interval Transmission Type	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment : Low / Middle / Hig Audio Output (WV-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Bill or motion Images recorded in the SDX/CSDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDX/CSDHC/SD memory when the recording format is set to JPEG) enor log Microsoft® Windows® 1.1, Microsoft® Windows® 8, Microsoft® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 7 (32 bit) 10Base-T / 100Base-TX, RJ45 connector *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 [16 : 3] (30 fps) 1,280 x 720 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bitrate / Framerate priority / Best effort / Advanced VBR 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 / 8,19 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 / 8,19 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 / 8,19 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 / 8,19 1 / 3 / 5 / 7 . 5 / 10 / 12 / 15 / 20 / 30 / 60 fps 64/ 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,04
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i UI	Camera Display Digital 2 Camera Clock D Alarm C One Sh Audio SD Men GUI/ Se System Suppor Networl Image Resolut JPEG Audio C Audio C Audio A	Control Mode Coom Tittle Sisplay Control Total Coom Tittle Sisplay Control Tot Capture Tot Capt	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Audio Output (WN-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WN-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WN-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WN-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WN-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WN-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (WN-SPN311 only): On / Off Volume adjustment : Low / Middle / Hig Audio Output (Wn-SPN311 only): On / Off Volume adjustment is Low / Middle / Hig Audio Output (Wn-SPN311 only): On / Off Volume adjustment is set to JPEG) error log Microsoff® Windows® 11, Microsoff® Windows® 1, Microsoff® 1, 28 bit), Windows® 1, Microsoff® 1, 28 bit), Windows® 1, Microsoff® Windows® 1, Microsoff® 1, 28 bit), Windows® 1, Microsoff® 1
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GUI	Camera Display Digital 2 Camera Clock D Alarm C Gone Sh Audio SD Men GUI/Se System Suppor Suppor Under Sh Audio Addio Ad	Control Mode Coom ITitle Splay Control Tritle Splay Control Tot Capture Tot Capture Tot Capture Tot Capture Ted OS ³ Ted Browser CIF Tensmission Mode Frame Rate Bit Rate/Client Image Quality Refresh interval Transmission Type Transmission Type Transmission Type Compression Transmission Type	Up to 4 image capture areas can be specified Brightness, AUX On / Off Spot, Quad : Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title available. 1x, 2x, 4x controlled by browser GUI Up to 20 alphanumeric characters Time : 12H/24H, Date : 5 formats on the browser, Summer time (Manua Reset A still picture will be displayed on a newly opened window. Mic (Line) Input: On / Off Volume adjustment: Low / Middle / Hig Audio Output (WV-SrN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (WV-SrN311 only): On / Off Volume adjustment: Low / Middle / Hig Audio Output (WV-SrN311 only): On / Off Volume adjustment: Low / Middle / Hig Bill or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanes Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) erro log Microseff * 11, Microseff * Mindows** Internet Explorer** 11 (32 bit), Windows** Internet Explorer** 12 (32 bit), Windows** Internet Explorer** 12 (32 bit), Windows** Internet Explorer** 13 (30 fps) 1.3 mega pixel [16: 3] (30 fps) 1.280 x 780 / 80 0x 500 / 600 / 800 x 500 / 600 x 800 / 320 x 180 / 160 x 90 *1.3 mega pixel [4: 3] (30 fps) 1.290 x 960 / 800 x 500 / 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 Constant bitrator Framerate priority / Best effort / Advanced VBR 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 / 8,15 / 1,024 / 12,288 / 14,336 / 16,384 / 20,480 / 24,576 kbps Ot 15 - 30 fps (JPEG frame rate will be restricted when dis

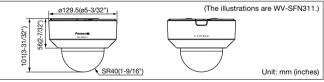
Motwork	SDXC/SDHC/SD	H.264 recording:
Network	Memory Card (Option)	
	* Manufactured by Panasonic	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure
	(SD speed class 4 or higher)	Manual REC / Alarm REC (Pre/Post) / Backup upon network failure
	* Use the SD memory card that	
	complies with UHS-1 (Ultra	Compatible 3D (3DHC/3DAC) card.
	High Speed-1) in the case of	
	SD Speed Class 10.	*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	
	Mobile Terminal Compatibility	,
Alarm	Alarm Source	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
	Schedule	Alarm / VMD / Access permission / H.264 recording / Scene file
Input/	Monitor Output	VBS: 1.0 V [p-p]/75 Ω, NTSC / PAL composite, ø3.5mm mini jack MONITOR
Output	(for adjustment)	OUT conversion plug included
	Microphone/Line Input	MIC IN and Line IN are selectable.
	(WV-SFN311 only)	ø3.5 mm monaural mini jack (monaural input)
		(Applicable microphone: Plug-in power type)
		Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced)
	Built-in microphone (WV-SFN310 only)	Electret condenser microphone
	Audio Output (WV-SFN311 only)	ø3.5 mm stereo mini jack (monaural output)
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Output impedance: Approx. 600 Ω (unbalanced)
	External I/O Terminals WV-SFN31	ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT)
		ALARM IN 1, ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT)
General	Safety	UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
	EMS	FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024
	Power Source and	WV-SFN311
	Power Consumption	DC power supply: DC12 V / 340 mA / Approx. 4.1 W
		PoE (IEEE802.3af compliant): DC48 V /130 mA / Approx. 6.2 W* (Class 2 device)
		WV-SFN310
		DC power supply: DC12 V / 310 mA / Approx. 3.7 W
		PoE (IEEE802.3af compliant): DC48 V /120 mA / Approx. 5.8 W* (Class 2 device)
		* ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY.
	Ambient Operating Temperature	-10°C to +50°C (14 °F to 122 °F)
	Ambient Operating Humidity	10 to 90 % (no condensation)
	Dimensions	ø129.5 mm x 101 mm (H) {ø5-3/32 inches x 3-31/32 inches (H)}
		Dome radius 40 mm {1-9/16 inches}
	Mass (approx.)	0.45 kg {1 lbs}
	Finish	Main body: ABS resin, sail white / Dome section: Clear acrylic resin
		main body. Abo room, dan writte / Donne dection. Order delytte restri

- *1 Converted value
- "2 Super Dynamic function is automatically set off on 60 fps mode.
 "3 Refer to "Notes on Windows Vista" / Windows 7 / Windows 8 / Windows 8.1" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Microsoft® Windows® 8.1 or Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- *4 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



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- Android is a trademark of Google Inc.
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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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