Panasonic BUSINESS

Super Dynamic Full HD Dome Network Camera

WV-SFN130

Super Dynamic HD Dome Network Camera WV-SFN110



'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-sfn130) HD / 1,280 x 720 Compact Dome Network Camera (wv-sfn110)

Key Features

- 1080p Full HD images up to 30 fps (WV-SFN130)
- 720p HD images up to 30 fps (WV-SFN110)
- 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-SFN130)
 0.04 lx (Color), 0.03 lx (B/W) at F2.3 (WV-SFN110)
- 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.
- **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.
- 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 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
- Wide coverage

WV-SFN130 [16 : 9 mode] Horizontal : 108 $^\circ$ Vertical : 60 $^\circ$ WV-SFN110 [16 : 9 mode] Horizontal : 100 $^\circ$ Vertical : 55 $^\circ$

Optional Accessory

Smoke Dome Cover WV-CW6SA



Specifications

Camera	Image Sensor		Approx. 1/3 type MOS image sensor
	Scanning Mode		Progressive
	Scanning Area	WVV-SFN130	5.28 mm (H) x 2.97 mm (V) {7/32 inches (H) x 1/8 inches (V)}
		WV-SFN110	
			{3/16 inches (H) x 5/32 inches (V)}
	Minimum Illumination	WV-SFN130	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-SFN110	0.005 lx (F2.3, Maximum shutter : Max. 16/30s, AGC : High) *
		WV-SFIVITO	0.03 lx (F2.3, Maximum shutter : Max. 16/30s, AGC : High) BW: 0.03 lx (F2.3, Maximum shutter : Off (1/30s), AGC : High) 0.002 lx (F2.3, Maximum shutter : Max. 16/30s, AGC : High)
	White Balance		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000
	Light Control Mode		ELC / Indoor scene 50 Hz / Indoor scene 60 Hz
	Super Dynamic Dynamic range		On (High) / On (Normal) / Off 122 dB typ. (Super Dynamic : On)
	Face Supe	-	On/ Off (only when Super Dynamic : On)
	Adaptive Black Stretch		On / Off (only when Super Dynamic : Off)
	Back light compensation (BLC) Fog compensation		On/ Off (only when Super Dynamic : Off)
		npensation (HLC)	On / Off (only when Super Dynamic/ Adaptive black stretch: Off) On / Off (only when Super Dynamic / Back light compensation (BLC): O
	AGC	nponsulon (nico)	On (High) / On (Mid) / On (Low) / Off
	Maximum shutter Day/Night (Electrical)		max. 1/10,000 s, max. 1/4,000 s, max. 1/2,000 s, max. 1/1,000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 1/100 s, max. 2/120 s, max. 2/120 s, max. 2/120 s, max. 3/100 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
		se Reduction	High / Low
		on Detection	On / Off, 4 areas available
	Privacy Zo	ne	On / Off (up to 8 zones available)
	VIQS Camera Tit	tle (OSD)	On / Off (up to 8 zones available) Up to 20 characters (alphanumeric characters, marks), On / O
Lens	Focal Leng		2.8 mm {1/8 inches}
		ctronic) zoom	
			WV-SFN130 : 3x Extra zoom (2.0 mega pixel [16 : 9] mode) WV-SFN110 : 2x Extra zoom
	Angular Field of View		[16 : 9 mode] Horizontal : 108 ° Vertical : 60 ° [4 : 3 mode] Horizontal : 89 ° Vertical : 66 °
	Maximum		[16 : 9 mode] Horizontal : 100 ° Vertical : 55 ° [4 : 3 mode] Horizontal : 100 ° Vertical : 73 ° 1 : 2.3
	Maximum aperture ratio Focus Distance		0.5 m - ∞
Adjusting			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°
Browser	Camera Co	ontrol	Vertical: -20 ° to 0 ° (right beside) to +90 ° (right under) Brightness
GUI	Camera Control Display Mode		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.
	Camera Tit		Up to 20 alphanumeric characters
	Clock Disp	•	Time: 12H/24H/Off, Date: 5 formats on the browser, Summer time (Manus
	One Shot O		A still picture will be displayed on a newly opened window. Still or motion Images recorded in the SDXC/SDHC/SD
	Data Down	•	memory card can be downloaded.
	GUI/Setup		English, Italian, French, German, Spanish, Portuguese,
	Menu Lang		Chinese, Russian, Japanese
	System Lo		Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs
	Supported	OS *2 *3	Microsoft® Windows® 10 Microsoft® Windows® 8.1
			Microsoft® Windows® 8
	0	D	Microsoft® Windows® 7
	Supported Browser		Windows® Internet Explorer® 11 (32 bit) 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
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector (female)
	Image Resolution H.264/JPEG		•2 mega pixel [16 : 9] 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 9 *1,920 x 1,080" mode is only available for H.264(1), H.264(2 •2 mega pixel [4 : 3]
			1,600 x 1,200 / 1,280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA / 160 x 120 "1,600 x 1,200" mode is only available for H.264(1), H.264(2) 3 mega pixel [4:3] 2,048 x 1,536 *4 / 1,280 x 960 / 800 x 600 / VGA / 400 x 300 /
			QVGA / 160 x 120 * "2,048 x 1,536" mode is only available for H.264(1), H.264(2)
		WV-SFN110	1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90
			•1.3 mega pixel [4 : 3] 1,280 x 960 / 800 x 600 / VGA / 400 x 300 / QVGA / 160 x

Network	Image compression method				
Network	H.264 *5		Constant bit rate / Variable bit rate / Frame rate /		
	П.204 3	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 /		
		Ollerit	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>		
		image 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 (Low / Mid / High) / Off (Only when "Variable bit rate" is selected.)		
			Unicast / Multicast		
	JPEG	Image Quality			
	0.20		0.1 fps - 30 fps		
		Transmission Type			
	Cropping function *6		Off / JPEG (1) / JPEG (2) / JPEG (3) / H.264 (1) / H.264 (2) /		
	Audio compression method		H.264 (3) / H.264 (4) / H.264 (all)		
			Alarm action On/ Off		
			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	n 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, ARP		
	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 access number		Up to 14 users (Depends on network conditions)		
	SDXC/SDI	HC/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		
			(except miniSD card and microSD card)		
	Cellular Phone Compatibility Mobile Terminal Compatibility		JPEG image		
			iPad, iPhone, iPod touch(iOS 4.2.1 or later), Android™ mobile terminals		
Alarm	Alarm Cau		VMD, Command alarm, Audio detection alarm		
Alarm	Alarm Source Alarm Actions		SDXC/SDHC/SD memory recording, E-mail notification,		
	Alarm Actions				
	Alarm Log		Indication on browser, FTP image transfer, Panasonic protocol output With SDXC/SDHC/SD memory card: 5,000 logs		
Ì	Schedule		VMD		
General		IC Standard	<safety></safety>		
General	Safety/EMC Standard Power Source and		UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 <emc></emc>		
			FCC Part15 ClassA, ICES003 ClassA, EN55022 ClassB, EN55024		
			PoE (IEEE802.3af compliant)		
	Power Consumption		48 V DC : 90 mA / Approx. 4.3 W (Class 2 device)		
	Ambient	T	0 °C to +40 °C {32 °F to 104 °F}		
		Temperature	10.0/ to 00.0/ (no condensation)		
		erating Humidity	10 % to 90 % (no condensation)		
	Built-in microphone Dimensions		Nondirectional electret condenser microphone		
			ø104 mm × 47 mm (H) {ø4-3/32 inches x 1-27/32 inches (H)}		
	Mana (s::::		Dome radius 54 mm {2-1/8 inches}		
	Mass (approx.)		Approx. 260 g {0.57 lbs}		
	FIIIISH		Main body: ABS resin, sail white Dome cover: Acrylic resin, Clear		
			Donie Cover . Acrylic resin, Clear		

- *1 Converted value
- *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.
- *7 Only use AAC-LC (Advanced Audio Coding Low Complexity) when recording audio on an SD memory card.

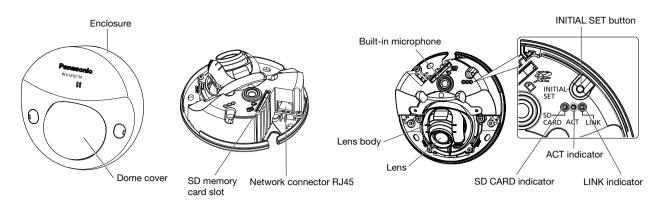
 *8 When "AAC-LC (HIGH QUALITY)" is selected, there are limitations about the following function.

 *SD memory card" is not available.

 *HITPS is not available.

- · The maximum concurrent access number is limited to 5

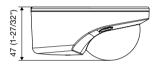
Part Names and Functions

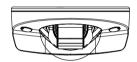


* These illustrations are WV-SFN130.

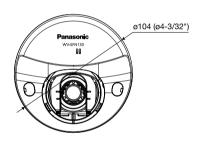
Appearance

Unit: mm (inches)









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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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