Panasonic BUSINESS

Super Dynamic HD Dome Network Camera WV-SFN311L



*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 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.
- Smart coding Technology: Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.
 Auto VIQS (Variable Image Quality on Specified area) function recognizes the no movement area in a video automatically and lowering the resolution of it to reduce the data size.

With the latest bit rate reducing technology, **GOP control**, **Auto VIQS**, **3D-MNR** (Multi process Noise Reduction) and **FDF** (Frequency Divided Filter), the network bandwidth and the disk space of recorder can be saved.

- High sensitivity with Day/Night (ICR*) function:
 0.01 lx (Color), 0.003 lx (B/W) at F1.6
 *ICR: IR Cut filter Removal
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- IR LED is controlled to match the environment, thereby the camera
- 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.
- 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
- Supports SSL, DDNS (viewnetcam, RFC2136)

*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 WV-CF5SA



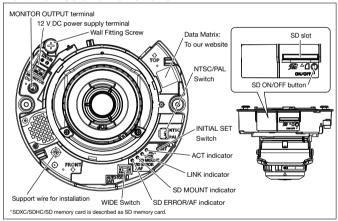
Specifications

Camera			
		Gensor	Approx. 1/3 type MOS image sensor
		ng Mode	Progressive scan
	Scannin		4.864 mm (H) x 3.891 mm (V) {3/16 inches(H) x 5/32 inches(V) } Color: 0 lx (F1.6, Maximum shutter : OFF (1/30 s), Gain: High, when the IR LED is I
	Minimui	m Illumination	Color: 0 Ix (F1.6, Maximum shutter : OFF (1/30 s), Gain: High, when the IR LED is I 0.01 lx, BW: 0.003 lx (F1.6, Maximum shutter : Max. 1/30s, Gain : On(High))
			Color: 0.0007 lx, BW: 0.0002 lx (F1.6, Maximum shutter : Max. 16/30s, Gain : On(High)
	IR LED	Light	Off / Auto (High / Mid / Low)
		irradiation distance	Approx. 30 m {98.43 feet}
	White B		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K
	Light Co	ontrol Mode	Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 Hz]: Automatic integration of ALC and ELC with flickerles
			Indoor scene [50 Hz]: Automatic integration of ALC and ELC with flickeries Indoor scene [60 Hz]: Automatic integration of ALC and ELC with flickeries
	Shutter	Sneed	[1.3 mega pixel [16 : 9](60 fps mode)]
	Onattor	Opeda	Off(1/50), 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,
	Super Dynamic ^{*2}		1/1000,1/2000, 1/4000, 1/10000 On (High) / On (Normal) / Off
	_	per Dynamic	On / Off (Only when Super Dynamic : On)
	Adaptive Black Stretch		On / Off (Only when Super Dynamic : Off)
		npensation	On / Off (Only when Super Dynamic / Adaptive black stretch : Off)
	AGC	пропошот	On (Low) / On (Mid) / On (High) / Off
		nic Sensitivity UP	max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s,
	Liccardi	iic ocholivity of	max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30
	Day/Nic	ght (ICR)	Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
	Dynamic Range		133 dB typ. (Super Dynamic : On, Light Control Mode : indoor)
			High / Low
	Digital Noise Reduction Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps
			Up to 8 zones
	Privacy Zone		The second secon
	VIQS		Up to 8 zones
		Title (OSD)	Up to 20 characters (alphanumeric characters, marks)
	Electric Zoom		TELE / WIDE , Auto Coarse adjustment of Focus
		djustment	ABF /MANUAL (Html only)
		tortion Compensation	
ens	-	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)
		ım Aperture Ratio	1 : 1.6 (WIDE) - 1 : 4.0 (TELE)
		g Range	0.3 m - ∞
djusting	g Angle		Horizontal: ± 180°, Vertical: ± 85°,
	Croppin	ıg	Image tilt adjustment range: -225°(Left) to +120°(Right) H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(2)
BUI			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
			screens or 16 split screen (JPEG only). 20 characters camera title available.
	Digital Z	Zoom	1x, 2x, 4x controlled by browser GUI
	Camera		Up to 20 alphanumeric characters
	Clock D	isplay	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		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High
	Audio		Audio Output : On / Off Volume adjustment : Low / Middle / High
	Audio	nory Data Download	Audio Output : On / Off Volume adjustment : Low / Middle / High
	Audio SD Men		Audio Output : On / Off Volume adjustment : Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded
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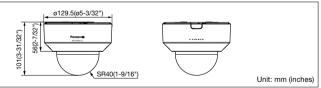
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Network	SDXC/SDHC/SD Memory Card (Option) Memory Card (Option) Manufactured by Panasonic (SD speed class 4 or higher) Vise the SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of SD Speed Class 10. Cellular Phone Compatibility Mobile Terminal Compatibility Alarm Source Alarm Actions	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** model *SDHC card, ** SDXC card (except miniSD card and microSD card) JPEG image, AUX control (by access level)
	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/ Output	Monitor Output (for adjustment)	VBS : 1.0 V [p-p]/75 Ω, NTSC / PAL composite, ø3.5mm mini jack MONITOR OUT conversion plug included
	Microphone/Line Input	MIC IN and Line IN are selectable. 3.5 mm monaural min jack (monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ± 0.5 V Input impedance: Approx. 2 kΩ (unbalanced)
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced)
	External I/O Terminals	ALARM IN 1(DAY/NIGHT IN), 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 Power Consumption	When IR LED is ON PoE (IEEE802.3af compliant) Device : DC48 V / 200 mA / Approx. 9.6 W* (Class 0 device) DC power supply : DC12 V / 600 mA / Approx. 7.2 W *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(1.00 lbs)
	Finish	Main body : ABS resin, sail white Dome section : Clear acrylic resin

- *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 / Windows® 10" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 10, Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- *4 Transmission for 4 streams can be individually set.
- *5 AAC-LC (Advanced Audio Coding Low Complexity) is only used when recording audio on an SD memory card.

Part Names and Functions



Appearance



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- products used on the network.
- · Masses and dimensions are approximate. · Specifications are subject to change without notice.

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