

HD Fixed Dome Network Camera WV-SF335



HD/1,280 x 960 H.264 Fixed Dome Network Camera

Key Features

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Simple Day/Night function: 0.3 lx (Color), 0.2 lx (B/W) at F1.3 (Wide)
- Focus Assist ensures easy installation.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Superior color reproduction by primary (RGB) color filter
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor / Indoor / Fixed electronic shutter Outdoor / Indoor: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD is supplied to work with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- 2x, 4x digital zoom controlled by browser
- Camera title display: Up to 20 alphanumeric characters on the browser, Up to 16 alphanumeric characters embedded in the image
- Alarm sources including 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic protocol output.

- Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- 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.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264/MPEG-4 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.
- Alarm log, Manual REC log, FTP error log saved in the SDHC/SD memory card is displayed on the browser GUI and can be downloaded to the client PC. Playback or Image data download through the log is also available.
- Internet mode: H.264/MPEG-4 images can be transmitted over HTTP protocol.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC) Installation required except for English
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation
- 2.8 mm ~ 10 mm, 3.6x Varifocal Auto Iris lens

Standard Accessories

• CD-ROM*1	Installation Template Label 1 pc. Cable Tie 2 pcs. (incl. 1 spare)
The followings are for installation. • Power Cord Plug	*1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs. *2 This label may be required for network management. The network administrator shall retain the code label.

Optional Accessories

Embedded Ceiling Mount Bracket (AV-light gray) WV-Q168



Embedded Ceiling Mount Bracket (Sail white) WV-Q174



Smoke Dome Cover WV-CF5S



Ceiling Mount Bracket WV-Q105



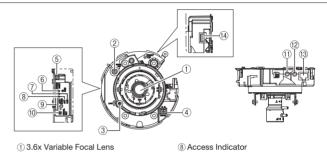
Specifications

TV System			NTSC	PAL	
Camera	Image Sen		1/3 type MOS Sensor		
	Effective P	ixels	Approx. 1.3 megapixel		
	Scanning I	Mode	Progressive scan		
	Scanning /		4.8 mm (H) x 3.6 mm (V)		
		llumination			
			Color: 0.019 lx, B/W: 0.013 lx at F	1.3 (Shutter: 16/30 s, AGC: High	
	White Bala Light Cont		AWC (2,000 ~ 10,000 K), ATW1 (2,70) Outdoor: Automatic integration		
			Indoor [50 Hz]: Automatic integration	on of ALC and ELC (up to 1/100 s	
	Shutter Sp	eed	Fix shutter: OFF (1/30), 3/100, 3 1/120, 1/250, 1/500, 1/1,000, 1/	/120, 2/100, 2/120, 1/100,	
Wide Dynamic Rang			ON / OFF		
		Dynamic Range Black Stretch			
	AGC		ON (LOW, MID, HIGH) / OFF		
			OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s) AUTO / OFF High / Low		
	_	se Reduction			
	Video Motion Detection				
	Privacy Zone Camera Title (OSD)		Up to 2 zones, Gray Up to 16 alphanumeric characters		
	Focus Adjustment		Focus Assist		
Lens	Vari Focal Length		2.8 mm ~ 10 mm, 3.6x varifocal		
	Angular Field of View		H: 27.7° (Tele) ~ 100.3° (Wide), V: 20.8° (Tele) ~ 73.5° (Wide)		
		Aperture Ratio	1 : 1.3 (Wide) ~ 1 : 3.1 (Tele)		
Adjusting	Focusing F	range	0.3 m ~ ∞ Horizontal: 180° (clockwise), 170° (counter clockwise)		
, tajaotig	,g.c		Vertical: ±75°, Imaging tilt adjus		
Browser	Camera Co	ontrol	Brightness, AUX ON / OFF		
GUI	Display Mo	ode	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 Zoo	m	1x, 2x, 4x controlled by browser GUI		
	Camera Title		Up to 20 alphanumeric characters		
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)		
	Alarm Control		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,		
	/ tadio		Audio Output: ON / OFF Volume adjustment: Low / Middle / High		
	SD Memory Data Download		Still or motion Images recorded in the SDHC/SD memory		
	,		card can be downloaded.	-	
	GUI/Setup Menu Language		English, French (Installation required for French)		
	System Log		Up to 100 (Internal), Up to 4,000		
	Supported OS		recording format is set to JPEG.) error logs Microsoft® Windows® 7 Professional 64 bit/32 bit,		
			Microsoft® Windows Vista® Business SP1 32 bit,		
			Microsoft® Windows® XP Professional SP3		
	Supported Browser		The language of the OS must be Windows® Internet Explorer® 8.0.32 bit		
			Windows® Internet Explorer® 8.0 32 bit (Microsoft® Windows® 7 64 bit/32 bit), Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business SP1 32 bit)		
			Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Windows® XP Professional SP3		
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector		
			H.264: 1,280 × 960 / VGA (640 × 48		
	Hesolution	olution [4 : 3]	MPEG-4: VGA (640 × 480) / QV0 JPEG: 1,280 × 960 / VGA (640 × 48		
	' -	Aspect ratio:	H.264: 1,280 × 720 / 640 × 360		
		[16:9]	JPEG: 1,280 × 720 / 640 × 360		
	H.264/	Transmission			
	MPEG-4	Mode Frame Rate	1/3/5/7.5/10/15/20/	1/3/5/7.5/10/12/15/	
			30 fps	20 / 30 fps	
		Bit Rate/ Client	64 / 128 / 256 / 384 / 512 / 768 4,096 / 8,192* kbps / Unlimited		
		Image Quality	LOW / NORMAL / FINE		
			0.1 fps ~ 30 fps		
			UNICAST / MULTICAST		
	JPEG	Image Quality	10 steps		
	Transmission Type		PULL / PUSH		
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps		
	Authorization for Audio		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex		
	Authentication for Audio				
	Total Bit Rate Supported Protocol		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite		
			IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMF		
			IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP,		
	ETD OF 1		SMTP, DHCP, DNS, DDNS, NTF		
	FTP Client		Alarm image transfer, Periodic in	mage transfer, Active/Passive	
	FTP Client			mage transfer, Active/Passive dic transmission is failed,	

TV System		NTSC	PAL		
Network	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)			
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon			
		network failure Compatible SD (SDHC) card: Panasonic 256 MB, 512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card			
	Face Detection	ON / OFF (with XML notification)			
Alarm Alarm Source 1 terminal input, VMD, Comn		1 terminal input, VMD, Commar	nd alarm		
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output, Indication on browser, FTP image transfer, Panasonic protocol output With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs Alarm / VMD / Access permission			
	Alarm Log				
	Schedule				
Input/	Monitor Output	1.0 V [p-p] / 75 Ω,	1.0 V [p-p] / 75 Ω,		
Output	(for adjustment)	NTSC composite, RCA Jack	PAL composite, RCA Jack		
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack			
(monaural input) (Appl			cable microphone; Plug-in power type)		
Supply volta		Supply voltage: 2.5 V ±0.5 V inp	out impedance: approx. 2 kΩ		
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level			
	External I/O Terminals	minals ALARM IN, ALARM OUT, AUX OUT			
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024)		
		C-UL (CAN/CSA C22.2 No.60065),			
		DOC (ICES003 ClassA)			
	Power Source and	12 V DC: 280 mA, PoE (IEEE 80	2.3af): 3.5 W (Class 2 device)		
	Power Consumption				
	Ambient Operating	−10 °C ~ +50 °C (14 °F ~ 122 °F),			
	Temperature/Humidity	90 % or less (without condensation)			
	Dimensions	ø129.5 mm x 93 mm (H) (ø5-1/8" x 3-5/8" (H))			
	Mass (approx.)	370 g (0.82 lbs.)			

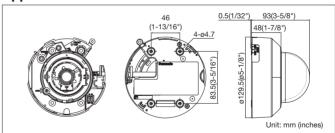
^{*1} H.264 and MPEG-4 are alternative. *2 [4:3] and [16:9] are alternative.

Part Names and Functions



- 1 3.6x Variable Focal Lens
- 2 Monitor Out Connector for Adjustment
- ③ Panning Table Lock Screw
- 4 12 V DC Power Cable Terminals
- ⑤ Focus Assist Button
- SDHC/SD Memory Card Error Indicator / Focus Assist Indicator
- ① Link Indicator
- 9 SDHC/SD Memory Card Slot
 - (1) INITIAL SET Button
 - ① Audio Output Connector
 - 12 Microphone/Line Input Connector
 - 13 Network Connector (RJ-45)
 - (4) External I/O Terminals
- * Due to space limitation, the connector of the audio cable and network cable should be within 30 mm (1-3/16") from the connector of the camera.

Appearance



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- Inductionaries and registered trademarks

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- Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
 - All TV pictures are simulated.
 - Masses and dimensions are approximate.
 - Specifications are subject to change without notice.
 These products may be subject to export control regulations.
 - All product pictures are NTSC models.

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