

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)
- VIQS (Variable Image Quality on Specified area) technology allows the designated area 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.
- Focus Assist ensures easy installation.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- 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 extra zoom at VGA resolution
- 2x, 4x digital zoom controlled by browser
- · Camera title display: Up to 20 alphanumeric characters on the browser, Up to 20 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: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Analog Monitor output for easier installation
- 2.8 mm ~ 10 mm, 3.6x Varifocal Auto Iris lens
- ONVIF compliant model

Standard Accessories

- Installation Guide 1 pc.
- CD-ROM*1 1 pc.
 Code Label*2 1 pc
- The followings are for installation.
- Power Cord Plug 1 pc.
 External I/O Terminal Plug....... 1 pc.
- **Optional Accessories**

Embedded Ceiling Mount Bracket (Sail white) WV-Q174

WV-CF5S





Ceiling Mount Bracket

. 1 pc.

..... 2 pcs. (incl. 1 spare)

• Installation Template Label ..

*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.

Cable Tie

Specifications

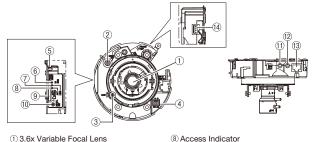
DISTRIBUTED BY:

Speci	ncalio	115		
TV System			NTSC PAL	
Camera	Image Sensor		1/3 type MOS Sensor	
	Effective Pixels		Approx. 1.3 megapixel	
	Scanning Mode		Progressive scan	
	Scanning Area		4.8 mm (H) x 3.6 mm (V) {3/16 inches (H) x 5/32 inches (V)}	
	Minimum Illumination		Color: 0.3 lx, B/W: 0.2 lx at F1.3 (Shutter: 1/30 s, AGC: High),	
			Color: 0.019 lx, B/W: 0.013 lx at F1.3 (Shutter: 16/30 s, AGC: 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: Automatic integration of ALC and ELC	
			Indoor [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s) Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s)	
	Shutter Speed		Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
	Wide Dynamic Range		ON / OFF	
	Face Wide Dynamic Range		ON / OFF (Only at Wide Dynamic Range: ON)	
	Adaptive Black Stretch		ON / OFF (Only at Wide Dynamic Range: OFF)	
	AGC		ON (LOW, MID, HIGH) / OFF	
	Electronic Sensitivity UP		OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))	
	Simple Day/Night Mode		AUTO / OFF	
	Digital Noise Reduction		High / Low	
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone		Up to 2 zones, Gray	
	VIQS		ON / OFF	
	Camera Title (OSD)		Up to 20 alphanumeric characters	
	Focus Adjustment		Focus Assist	
Lens	Vari Focal Length		2.8 mm ~ 10 mm, 3.6x varifocal	
Lens	Angular Field of View		H: 27.7° (Tele) ~ 100.3° (Wide), V: 20.8° (Tele) ~ 73.5° (Wide)	
	-		1 : 1.3 (Wide) ~ 1 : 3.1 (Tele)	
	Maximum Aperture Ratio			
•	Focusing Range		0.3 m ~ ∞	
Adjusting Angle			Horizontal: 180° (clockwise), 170° (counterclockwise)	
	Comora Costuri		Vertical: ±75°, Imaging tilt adjustment range: ±100°	
Browser GUI	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 Zoom		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 (Auto / 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,	
	SD Memory Data Download		Audio Output: ON / OFF Volume adjustment: Low / Middle / High	
			Still or motion Images recorded in the SDHC/SD memory	
			card can be downloaded.	
	GUI/Setup Menu Language		English, Italian, French, German, Spanish, Russian, Chinese, Japanese	
	System Log		Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the	
	Supported OS Supported Browser		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	
			The language of the OS must be same as selected GUI language.	
			Windows® Internet Explorer® 9.0 (32 bit),	
			Windows® Internet Explorer® 8.0 (32 bit),	
			Windows [®] Internet Explorer [®] 7.0 (32 bit),	
			Microsoft [®] Internet Explorer [®] 6.0 SP3	
Network	Network IF	:	10Base-T / 100Base-TX, RJ-45 connector	
Network	Image	Aspect ratio:	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
	Resolution		MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
	*1 *2		JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
		Aspect ratio:	H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps	
		[16:9]	JPEG: 1,280 × 720 / 640 × 360 / 320 × 160, up to 30 lps	
	H.264/	Transmission	Constant bitrate / Framerate priority / Best effort	
	MPEG-4	Mode	constant bituto / Frantorato priority / Dest errort	
	*1		1/3/5/7.5/10/12/15/20/30 fps	
	·	Frame Rate	-	
		Bit Rate/	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,096* kbps / Unlimited * H.264 mode only	
		Client Image Quality		
			LOW / NORMAL / FINE	
			0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s	
	1050	1	UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
	Transmission Type		PULL / PUSH	
			G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	Audio Com		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Audio Moc	le		
	Audio Moc		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users	
	Audio Moc	le tion for Audio	Level 1 only / Level 2 higher / All users	
	Audio Moc Authentica	le tion for Audio ate	Level 1 only / Level 2 higher / All users	
	Audio Moc Authentica Total Bit R	le tion for Audio ate	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, RTP, FTP, SMTP, DNS, NTP,	
	Audio Moc Authentica Total Bit R	le tion for Audio ate	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, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6	
	Audio Moc Authentica Total Bit R	le tion for Audio ate	Level 1 only / Level 2 higher / All users 64/128/256/384/512/766/1,024/2,048/4,096/8,192 kbps/Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP,	
	Audio Moc Authentica Total Bit R Supported	le tion for Audio ate Protocol	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, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP	
	Audio Moc Authentica Total Bit R	le tion for Audio ate Protocol	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, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive	
	Audio Moc Authentica Total Bit R Supported	le tion for Audio ate Protocol	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, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive selectable (When the FTP periodic transmission is failed,	
	Audio Moc Authentica Total Bit R Supported	le tion for Audio ate Protocol	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, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive	

TV Systen	n	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)		
	Cellular Phone Compatibility	JPEG image		
	Mobile Terminal Compatibility"3	iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android™ mobile terminals		
Alarm	Alarm Source	1 terminal input, VMD, Command alarm		
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output,		
		Indication on browser, FTP image transfer, Panasonic protocol output		
	Alarm Log	With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs		
	Schedule	Alarm / VMD / Access permission / H.264 recording		
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) (Applicable microphone; Plug-in power type)		
		Supply voltage: 2.5 V \pm 0.5 V input impedance: approx. 2 k Ω		
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	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 802.3af): 3.5 W (Class 2 device)		
	Power Consumption			
	Ambient Operating	–10 °C ~ +50 °C (14 °F ~ 122 °F),		
	Temperature/Humidity	Less than 90 % (no condensation)		
	Dimensions	ø129.5 mm x 93 mm (H) {ø5-3/32 inches x 3-21/32 inches(H)}		
	Mass (approx.)	370 g (0.82 lbs.)		

*1 H.264 and MPEG-4 are alternative. *2 [4 : 3] and [16 : 9] are alternative. *3 For further information about compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.html).

Part Names and Functions

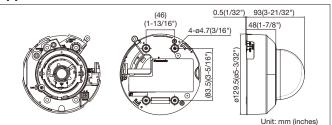


- ① 3.6x Variable Focal Lens SDHC/SD Memory Card Slot
- 2 Monitor Out Connector for Adjustment 3 Panning Table Lock Screw
- 4 12 V DC Power Cable Terminals
- 10 INITIAL SET Button
 - 1 Audio Output Connector
 - 12 Microphone/Line Input Connector (13) Network Connector (RJ-45)
- 6 SDHC/SD Memory Card Error Indicator (1) External I/O Terminals
- / Focus Assist Indicator ① Link Indicator

(5) Focus Assist Button

* 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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- Microsoft Corporation in the U.S. and other countries.
- iPad, iPhone and iPod touch are registered trademarks of Apple Inc.
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- "Super Dynamic", "SDII", "SDII", "SD5", "SD5Link", "i-PRO" and "i-PRO SmartHD" logos are
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 Important
 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.



http://panasonic.net/security/

f http://www.facebook.com/PanasonicNetworkCamera Printed in Japan (2A-061HA)