Panasonic

HD Fixed Dome Network Camera WV-SF336



HD/1,280 x 960 H.264 Fixed Dome Network Camera with ABF (Auto Back Focus)

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.
- ABF (Auto Back Focus) 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
- 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
- Fog compensation

Standard Accessories

• Installation Guide	Installation Template Label
The followings are for installation. • Power Cord Plug	*1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software progran '2 This label may be required for network manageme The network administrator shall retain the code lab

Optional Accessories

Embedded Ceiling Mount Bracket (Sail white) WV-Q174





WV-CF5S

Smoke Dome Cover

Ceiling Mount Bracket
WV-Q105



Specifications

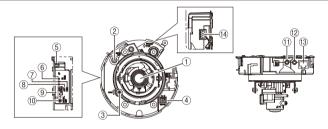
TV system
Scanning Mode Progressive scan Scanning Area 4.8 mm (H) x 3.6 mm (V) (3/16 inches (H) x 5/32 inches (V))
Scanning Mode
Scanning Area
Minimum Illumination
Color 0.019 X, PAW: 0.013 x at F1.3 (Shutter: 16/30 s, AGC: High White Balance AWC (2.000 - 10,000 K), ATWI (2.700 - 6,000 K), ATWI (2.000 - 6,000 K) at Vice Color 10,000 K), ATWI (2.700 - 6,000 K), ATWI (2.000 - 6,000 K) at Vice Color 10,000 K), ATWI (2.700 - 6,000 K), ATWI (2.000 - 6,000 K) at Vice Color 10,000
White Balance
Light Control Mode Outdoor: Automatic integration of ALC and ELC (up to 1/100 s Indoor (50 Hz); Automatic integration of ALC and ELC (up to 1/100 s Indoor (50 Hz); Automatic integration of ALC and ELC (up to 1/120 s Indoor (50 Hz); Automatic integration of ALC and ELC (up to 1/120 s Indoor (50 Hz); Automatic integration of ALC and ELC (up to 1/120 s Indoor (50 Hz); Automatic integration of ALC and ELC (up to 1/120 s Indoor (51 Hz); Automatic integration of ALC and ELC (up to 1/120 s Indoor (51 Hz); Alc and ELC (up to 1/120 s Indoo
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Indoor [80 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 s Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/1000, 1/120 s Wide Dynamic Range ON / OFF Face Wide Dynamic Range ON / OFF Face 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: ON Adaptive Black Stretch ON / OFF (Only at Wide Dynamic Range: OFF ON (LOW, MID, HiGH) / OFF Electronic Sensitivity UP OFF / AUTO / OFF Electronic Sensitivity UP OFF / AUTO / OFF Digital Noise Reduction High / Low Video Motion Detection 4 erass, Sensitivity: 15 steps, Detection size: 10 steps VIOS
Shutter Speed
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Wide Dynamic Range
Face Wide Dynamic Range Adaptive Black Stretch ON / OFF (Only at Wide Dynamic Range: ON) AGC ON (LOW, MID, Hilch) / OFF Electronic Sensitivity UP Simple Day/Night Mode Digital Noise Reduction Privacy Zone Video Motion Detection Privacy Zone ViGS ON / OFF Only at Wide Dynamic Range: OFF) AUTO / OFF Digital Noise Reduction Privacy Zone ViGS ON / OFF Camera Title (OSD) Back Focus Adjustment ABF/MANUAL Lens Vari Focal Length ABF/MANUAL Lens Vari Focal Length ABF/MANUAL Lens Vari Focal Length ABF/MANUAL Lens Adjustrield of View Maximum Aperture Ratio Focusing Range O3 m → ∞ Adjusting Angle Horizontal: 180° (clockwise), 170° (counterclockwise) Vertical: ±75°, Imaging tilt adjustment range: ±100° Browser GUI Display Mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quas screens or 16 splits recent (JFEG 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: £14724H, Date: 5 formats on the browser, Summer time (Auto / Manual Alarm Control Reset One Shot Capture Audio Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Middle / High Audio Output: ON / OFF Volume adjustment: Low / Doug Note Moresoft® Windo
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Adaptive Black Stretch AGC ON (LOW, MID, HIGH) / OFF Electronic Sensitivity UP F/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 Digital Noise Reduction Video Motion Detection Video Motion Video Motion Detection Video Motion Video Vide
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Adjusting Angle Horizontal: 180° (clockwise), 170° (counterclockwise) Vertical: ±75°, Imaging tilt adjustment range: ±100° Browser GUI Display Mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quascreens 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 / Manua 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 Audio Output: ON / OFF Volume adjustment: Low / Middle / High SD Memory Data Download GUI/Setup Menu Language System Log Up to 100 (Internal), Up to 4,000 (SDHC/SD memory card can be downloaded. GUI/Setup Menu Language System Log Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the recording format is set to JPEG.) error logs Supported OS Microsoft® Windows® 8,Microsoft® Windows® 7, Microsoft® Windows® Nerosoft® Windows® 7, Microsoft® Windows® Nepera No. (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 6.0 SP3 Network Network IF Image Aspect ratio: H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (3
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Camera Control Brightness, AUX ON / OFF
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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 H.264
Aspect ratio: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps [16 : 9] JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264/ Transmission MPEG-4 Mode Frame Rate Bit Rate/ 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072
[16:9] JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264/ Transmission Constant bitrate / Framerate priority / Best effort / Advanced VBF MPEG-4 11 Frame Rate
[16:9] JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264/ Transmission Constant bitrate / Framerate priority / Best effort / Advanced VBF MPEG-4 11 Frame Rate
H.264/ Transmission Constant bitrate / Framerate priority / Best effort / Advanced VBF MOde 11 Mode Frame Rate 1/3/5/7.5/10/12/15/20/30 fps Bit Rate/ 64/128/256/384/512/768/1,024/1,536/2,048/3,072
MPEG-4 Mode Frame Rate 1/3/5/7.5/10/12/15/20/30 fps Bit Rate/ 64/128/256/384/512/768/1,024/1,536/2,048/3,072
Frame Rate 1/3/5/7.5/10/12/15/20/30 fps Bit Rate/ 64/128/256/384/512/768/1,024/1,536/2,048/3,072
Bit Rate/ 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072
1 (Client 14 096 / 8 096* kbps / Unlimited * H 264 mode only
Image Quality LOW / NORMAL / FINE
Refresh Interval 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s
Transmission Type UNICAST / MULTICAST
JPEG Image Quality 10 steps
Transmission Type PULL / PUSH
Audio Compression G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps
Audio Mode OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)
Authentication for Audio Level 1 only / Level 2 higher / All users
Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite Supported Protocol IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP,
Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite Supported Protocol IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6
Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite Supported Protocol 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, SMTF
Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite Supported Protocol 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, SMTF, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARF
Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite Supported Protocol 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, SMTF DHCP, DNS, DDNS, NTP, SMMP, UPnP, IGMP, ICMP, ARP FTP Client Alarm image transfer, Periodic image transfer, Active/Passive
Total Bit Rate 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimite Supported Protocol 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

No. of Simultaneous Users Up to 14 users (Depends on network conditions)

TV System		NTSC	PAL	
Network	SDHC/SD Memory Card	d 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 256 512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC		
	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, Commar	nd alarm	
	Alarm Actions	SDHC/SD memory recording, E-ma	il notification, Alarm terminal output,	
		Indication on browser, FTP image t	ransfer, 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	on / 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 selectab	ole. ø3.5 mm stereo mini jack	
		(monaural input) (Applicable microphone; Plug-in power type)		
		Supply voltage: 2.5 V ±0.5 V input impedance: approx. 2 kΩ		
	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: 320 mA, PoE (IEEE 802.3af): 4.2 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.)	410 g (0.91 lbs.)		

^{*1} H.264 and MPEG-4 are alternative

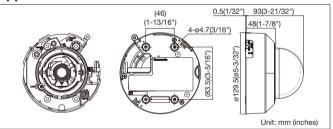
Part Names and Functions



- 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 ABF Button
- 6 SDHC/SD Memory Card Error Indicator / ABF Indicator
- 7 Link Indicator

- ® Access Indicator
- SDHC/SD Memory Card Slot
- 10 INITIAL SET Button
- 1 Audio Output Connector
- [®] Microphone/Line Input Connector
- (3) 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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 Panasonic cannot be responsible for the performance of the network and/or other manufacturers'
 - products used 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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^{*2 [4 : 3]} and [16 : 9] are alternative.

^{*3} For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).