

HD Dome Network Camera WV-SF135 Dome Network Camera WV-SF132



HD/1,280 x 960 H.264 Dome Network Camera with 2x Extra Zoom (WV-SF135) VGA/640 x 480 H.264 Dome Network Camera (WV-SF132)

Key Features

- 720p HD images up to 30 fps (WV-SF135)
- 1.3 Megapixel high sensitivity MOS Sensor (WV-SF135)
- 0.32 Megapixel high sensitivity MOS Sensor (WV-SF132)
- 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 (WV-SF135)
- Full frame (Up to 30 fps) transmission at VGA (640 x 480) image size (WV-SF132)
- ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- High sensitivity with Day & Night (Electrical) function: 0.8 lx (Color), 0.6 lx (B/W) at F2.2 (WV-SF135) 2.0 lx (Color), 1.3 lx (B/W) at F2.9 (WV-SF132)
- 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.
- 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 (WV-SF135) Auto (Up to 8x) / OFF (WV-SF132)
- 2x extra zoom under VGA resolution (WV-SF135)
- 2x, 4x digital zoom controlled by browser
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time)
 - Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.
 - ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.
- VMD (Video Motion Detection) 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 works with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 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.
- 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 / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Onvif compliant model
- Low profile design for discrete installation
- Wide coverage

WV-SF135 Horizontal: 104°, Vertical: 85° WV-SF132 Horizontal: 68°. Vertical: 53°

Standard Accessories

- Installation Guide. Important Safety Instructions......1 pc. • CD-ROM*1...1 pc. · Lens adjuster..
- The followings are for installation.
- *1 The CD-ROM contains the operating instructions
- and different kinds of tool software programs.

 *2 This label may be required for network management.
 The network administrator shall retain the code label.

Specifications

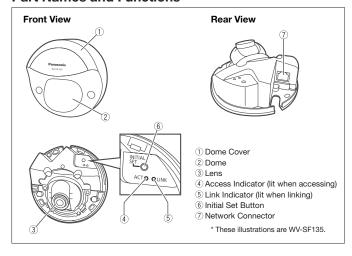
Specifications						
TV System	1		NTSC PAL			
Camera	Image Sensor		WV-SF135: 1/3 type MOS image Sensor			
			WV-SF132: 1/5 type MOS image Sensor			
	Effective P	ixels	WV-SF135: Approx. 1.3 megapixels			
	Scanning N	Mode	WV-SF132: Approx. 0.32 megapixels Progressive			
	Scanning Area		WV-SF135: 4.8 mm (H) x 3.6 mm (V) (3/16" (H) x 5/32" (V))			
			WV-SF132: 2.69 mm (H) x 2.01 mm (V) (1/8" (H) x 1/16" (V))			
	Minimum I	llumination	WV-SF135:			
			Color: 0.8 lx (F2.2, Auto slow shutter: Off (1/30 s), Gain: On(High))			
			0.05 lx (F2.2, Auto slow shutter: Max. 16/30 s, Gain: On(High)) BW: 0.6 lx (F2.2, Auto slow shutter: Off (1/30 s), Gain: On(High))			
			0.04 lx (F2.2, Auto slow shutter: Max. 16/30 s,Gain: On(High))			
			WV-SF132:			
			Color: 2.0 lx (F2.9, Auto slow shutter: Max. 8/30 s, AGC: High)			
			0.3 lx (F2.9, Auto slow shutter: Max. 8/30 s, AGC: High) *1			
			BW: 1.3 lx (F2.9, Auto slow shutter: Max. 8/30 s, AGC: High)			
	White Balance		0.16 lx (F2.9, Auto slow shutter: Max. 8/30 s, AGC: High) *1 AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)			
	Light Control Mode		Indoor scene (50 Hz / 60 Hz) / ELC			
	ELC		1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000,			
	(Maximum exposure time)		1/2,000, 1/4,000, 1/8,000 (WV-SF132), 1/10,000 (WV-SF135)			
	Day & Night (Electrical)		OFF / AUTO			
	Digital Noise Reduction		High / Low			
	Face Detection Adaptive Black Stretch		ON / OFF (with the XML notification setting)			
	AGC		ON / OFF ON (LOW, MID, HIGH) / OFF			
	Auto Slow Shutter		WV-SF135: Off(1/30s), Max. 2/30 s, Max. 4/30s, Max. 6/30s,			
	and the state of		Max. 10/30s, Max. 16/30s			
			WV-SF132: Off(1/30s), Max. 2/30 s, Max. 3/30s, Max. 4/30s,			
			Max. 8/30s			
	Video Motion Detection Privacy Zone		ON / OFF, 4 areas available			
	VIQS	rie	ON / OFF (up to 2 zones available) ON / OFF			
	Camera title		Up to 20 characters (alphanumeric characters, marks), ON / OFF			
Lens	Focal Leng		1.95 mm			
	Zoom Rati	0	WV-SF135: 1x Extra Zoom:2x (under VGA resolution)			
			WV-SF132: -			
	Maximum Aperture Ratio		1 : 2.2 (WV-SF135) 1:2.9 (WV-SF132)			
	Adjusting Angle		Ceiling Installation Horizonatal: -20 ° to +20 ° Vertical: -20 ° to +90 ° Wall Installation Horizonatal: -80 ° to +80 ° Vertical: -90 ° to +20 °			
	Angular Field of View		WV-SF135: Horizontal: 104 °, Vertical: 85 °			
	J		WV-SF132: Horizontal: 68 °, Vertical: 53 °			
Browser	Supported	OS	Microsoft® Windows® 7,			
GUI	*2 *3 Supported Browser		Microsoft® Windows Vista®,			
			Microsoft® Windows® XP SP3 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			
	Image Resolution	Aspect ratio: [4:3]	WV-SF135: H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA (640 x 480) /QVGA (320 x 240), up to 30 fps			
	riesolution	[4.0]	WV-SF132: H.264: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps			
			JPEG: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps			
		Aspect ratio:	WV-SF135			
		[16 : 9]	H.264: 1280 x 720 / 640 x 360 / 320 x 180, up to 30 fps			
			JPEG: 1280 / 720 / 640 x 360 / 320 x 180, up to 30 fps			
			WV-SF132 H.264: 640 x 360 / 320 x 180, up to 30 fps			
			JPEG: 640 x 360 / 320 x 180, up to 30 fps			
		Frame Rate	1/3/5/7.5/10/15/20/30 fps 1/3/5/7.5/10/12/15/20/30 fps			
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /			
			4,096 / 8,192* kbps *H.264 mode only (WV-SF135)			
		Image Quality	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE			
	IDEG	Image Quality Transmission Type	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST			
	JPEG (MJPEG)	Image Quality	4,096 / 8,192* kbps "H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9)			
	(MJPEG)	Image Quality Transmission Type Image Quality	4,096 / 8,192* kbps "H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9)			
	(MJPEG) Trancemis	Image Quality Transmission Type Image Quality Transmission Type sion Interval	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULLL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images)			
	(MJPEG)	Image Quality Transmission Type Image Quality Transmission Type sion Interval	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST 0 SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULLL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images) 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 /			
	(MJPEG) Trancemiss Bandwidth	Image Quality Transmission Type Image Quality Transmission Type sion Interval Control	4,096 / 8,192* kbps "H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST OSUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images) 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited			
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	(MJPEG) Trancemiss Bandwidth	Image Quality Transmission Type Image Quality Transmission Type sion Interval Control	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST 0.SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images) 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Pv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6			
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	(MJPEG) Trancemiss Bandwidth	Image Quality Transmission Type Image Quality Transmission Type Sion Interval Control Protocol	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST 0.SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images) 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Pv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6			
	(MJPEG) Trancemiss Bandwidth Supported	Image Quality Transmission Type Image Quality Transmission Type sion Interval Control Protocol	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST OSUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images) 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Pv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP Alarm image transmission, FTP periodic transmission Up to 16 camera images can be displayed simultaneously on a			
	(MJPEG) Trancemis: Bandwidth Supported FTP Client Multi-scree	Image Quality Transmission Type Image Quality Transmission Type Sion Interval Control Protocol	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST SUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images) 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Pv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP Alarm image transmission, FTP periodic transmission Up to 16 camera images can be displayed simultaneously on a multi-screen. (Including the camera itself)			
	(MJPEG) Trancemis: Bandwidth Supported FTP Client Multi-scree Maximum	Image Quality Transmission Type Image Quality Transmission Type sion Interval Control Protocol en Concurrent	4,096 / 8,192* kbps *H.264 mode only (WV-SF135) LOW / NORMAL / FINE UNICAST / MULTICAST OSUPER FINE / 1 FINE / 2 / 3 / 4 / 5 NORMAL / 6 / 7 / 8 / 9 LOW (10 steps: 0-9) PULL / PUSH 0.1 fps - 30 fps (JPEG frame rate will be restricted when display both JPEG and H.264 images) 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Pv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6 IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP Alarm image transmission, FTP periodic transmission Up to 16 camera images can be displayed simultaneously on a			
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TV Syster	m	NTSC	PAL
Alarm	Alarm Source	VMD, Command alarm	
	Alarm Actions	E-mail notification,Indication on browser, FTP image transfer,	
		Panasonic protocol output	
	Schedule	VMD	
General	Power Source	PoE (IEEE802.3af compliant)	
	Power Consumption	WV-SF135: PoE 48 V: 54 mA (Class1 device)	
		WV-SF132: PoE 48 V: 46 mA (Class1 device)	
	Ambient Operating	0 °C ~ +40 °C (32 °F ~ 104 °F),	
	Temperature/Humidity	Less than 90 % (no condensation)	
	Dimensions	ø100 mm x 47 mm (H) (ø3-15/16" x 5-3/4" (H))	
	Mass (approx.)	200 g (0.44 lbs.)	
	Finish	Main Body: ABS resin, Sail White	
		Dome Section: Clear Polycarbonate Resin	

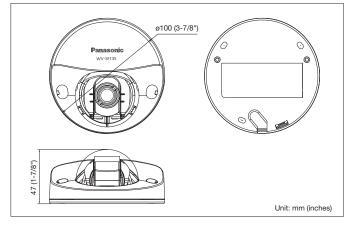
^{*1} Converted value

- *2 Transmission for 2 streams can be individually set in the same compression method.
- *3 Refer to "Notes on Windows Vista® / Windows® 7" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 7 or Microsoft® Windows Vista®
- *4 When using IPv6 for communication, use Microsoft Windows 7 or Microsoft Windows Vista.

Part Names and Functions



Appearance



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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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