Panasonic

Super Dynamic Full HD Vandal Resistant **Dome Network Camera**

WV-SF549 **WV-SF548**



Full HD / 1,920 x1,080 H.264 Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- 1080p Full HD images up to 30 fps and 360p image up to 30fps simultaneously.
- · Combining enhanced "UniPhier®", Panasonic's proprietary System LSI platform and 2 areas VIQS (Variable Image Quality on Specified area) function can decrease maximum 50%*1 network bandwidth.
- Cropping function enables to provide whole image (1,920 x 1,080) and the part image (640 x 360) simultaneously. Up to 4 image capture areas can be specified, and it is also possible to
- control the sequence. • Picture in picture function: A cropping image or an alarm image can be
- added to an image and transmitted.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier®"
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic Range technology ensures clear face image. High sensitivity with Day & Night (IR) function:0.5 lx (Color), 0.06 lx (B/W) at F1.3 (WV-SF549)
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color), 0.3 lx (B/W) at F1.3 (WV-SF548)
- Using Panasonic distinctive LDC (Lens Distortion Compensation) function, natural image without distortion can be monitored though using wide angle lens.
- ABF (Auto Back Focus) ensures easy installation.
- ABF ensures stable focus in both color and B/W modes. (WV-SF549)
- 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 scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fixed electronic shutter Outdoor scene: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. Indoor scene (50 Hz / 60 Hz): Flicker caused by fluorescent lightning will be automatically compensated. Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- 3x Extra optical zoom at 360p resolution. (Picture Mode : 2 Mega pixel [16:9])
- VMD (Video Motion Detection) 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, 4x digital zoom controlled by browser.
- Camera title display: Up to 20 alphanumeric characters on the browser

- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording(WV-SF549), 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. (WV-SF549)
- 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.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG) (WV-SF549)
- 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 the Internet.
- Onvif compliant model
- Vandal resistant mechanism for high reliability
- 2.8 ~ 10.0 mm, 3.6x Varifocal Auto Iris Lens
- Fog compensation
- *1 Compared with WV-NP502. Reduction effect may vary depending on object and image quality setting conditions.

Standard Accessories

- Installation Guide 1 pc.
- CD-ROM*1......1 pc.
 Code Label*2......1 pc.
- The followings are for installation.
- Installation Template Label 1 pc.
- Cable Tie 2 pcs. (incl. 1 spare) Bit for Tamperproof Screw 1 pc.
- *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

Ceiling Mount Bracket Celling Mount Bracket WV-Q105

Specifications

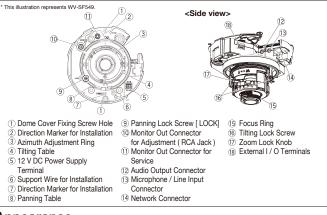
TV Systen Camera			NTSC PAL	
camera	Image Sensor Effective Pixels		1/3 type MOS Sensor Approx. 3.1 megapixel	
			Progressive scan	
	Scanning Mode Scanning Area			
			4.51 mm (H) x 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}	
	Minimun	n Illumination	WV-SF549:	
			Color: 0.5 lx, BW: 0.06 lx (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High)	
			Color: 0.03 lx, BW 0.004 lx (F1.3, Auto slow shutter: Max. 16/30s, Gain:On(High)) *	
			WV-SF548:	
			Color: 0.5 lx, BW: 0.3 lx (F1.3, Auto slow shutter: Off (1/30s), Gain:On(High)	
			Color: 0.03 lx, BW 0.02 lx (F1.3, Auto slow shutter: Max. 16/30s, Gain:On(High)) *	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K	
	Light Co	ntrol Mode	Outdoor scene: Automatic integration of ALC	
	Shutter Speed Super Dynamic Dynamic Range Face Super Dynamic Adaptive Black Stretch AGC Electronic Sensitivity UP Day & Night		Indoor scene [50 Hz]: Automatic integration of ALC (up to 1/100 s)	
			Indoor scene [60 Hz]: Automatic integration of ALC (up to 1/100 s)	
			Fix shutter: 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 (only at Super Dynamic Off	
			ON / OFF	
			52 dB typ. (Super Dynamic: ON) ON / OFF (Only at Super Dynamic: ON) ON / OFF (Only at Super Dynamic: OFF)	
			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)	
			WV-SF549: IR	
	Day & N	igin		
			Mode: AUTO1 / AUTO2 / ON / OFF, Level:High / Low, with external contro	
			WV-SF548: Electrical	
	-		Mode: OFF / AUTO	
		loise Reduction	High / Low	
	Video M	otion Detection	4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone Upside Down		Up to 2 zones, Gray	
			ON / OFF	
	VIQS		Up to 2 zones	
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)	
	Focus Adjustment		ABF/MANUAL	
	Lens Distortion Compensation		256 steps	
Lens	Focal Length			
LC115			2.8 mm - 10 mm, 3.6x (8.4 mm - 30 mm 10.8x with Extra optical zoom (at 360P)	
		Field of View ²	H: 24.2 °(TELE) ~ 80.6 °(WIDE) V: 13.50°(TELE) ~ 47.57°(WIDE)	
	Maximum Aperture Ratio		1 : 1.3 (WIDE) ~ 1 : 3.0 (TELE)	
	Focusing Range		0.3 m ~ ∞	
Adjusting	Angle		Horizontal: 180 ° (clockwise), 170 ° (counterclockwise),	
			Vertical: ±75 °, Image tilt adjustment range: ±100 °	
Browser	Croppin	q	H.264(2) / JPEG(VGA or 640 x 360) / JPEG(QVGA or 320 x 180)	
GUI	Cropping		Up to 4 image capture areas can be specified	
	Camera Control		Brightness, AUX ON / OFF, Zoom (1x, 2x 4x)	
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
	Display Mode			
	Divital Zaran		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 (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,	
			Audio Output: ON / OFF Volume adjustment: Low / Middle / High (Only at WV-SF549)	
	SD Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded. (Only at WV-SF549)	
	GUI/Setup Menu Language		English, Japanese, Italian, French, German, Spanish, Chinese, Russian	
	System Log		Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory	
	System Log		when the recording format is set to JPEG.) error logs (Only at WV-SF549)	
	Cupported OC \$3 \$4			
	Supported OS *3 *4		Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3	
	Supported Browser		Windows® Internet Explorer® 10.0 (32 bit), 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		10Base-T / 100Base-TX, RJ-45 connector	
	Image	Image Capture Mode:	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps	
	Resolution	2 mega pixel [16:9]	JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps	
			H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
	1	1.3 mega pixel [16:9]	JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
			H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps	
	1		JPEG (MJPEG): 1,280 x 960 / VGA(640 x 460) / QVGA(320 x 240), up to 30 fps	
	1		H.264: 1,280 x 960, up to 15 fps	
	H.264 *5	3 mega pixel [4:3]	JPEG (MJPEG): 2,048 x1,536, up to 15 fps	
			Constant bitrate / Framerate priority / Best effort / Advanced VBR	
	H.264 **		1/3/5/7.5/12/10/15/20/30 fps	
	H.264 **	Frame Rate		
	H.264 ~	Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps	
	H.264 [~]		64 / 128 / 256 / 384 / 512 / /68 / 1,024 / 1,536 / 2,048 / 3,0/2 /4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE	
	H.264 ^{~3}	Bit Rate/Client Image Quality Refresh Interval	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
	H.264 ^{~~}	Bit Rate/Client Image Quality Refresh Interval	LOW / NORMAL / FINE	
	JPEG	Bit Rate/Client Image Quality Refresh Interval	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST	
		Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps	
		Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps	
	JPEG	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH	
	JPEG Audio Compre	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ssion 'Only at W-SF549	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	JPEG Audio Compre Audio Mode	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ession 'Only at WV-SF549	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	JPEG Audio Compre Audio Mode Authentication 1	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ssion 'Only at W-SF49 or 'Only at W-SF549 for Audo 'Only at W-SF549	LOW / NORMAL / FINE 0.2 / 0.2 / 0.3 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Full duplex) Level 1 only / Level 2 higher / All users	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bit	Bit Rate/Client Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval Irransmission Type ssion 'Only at WV-SF549 for Audo 'Only at WV-SF549 Rate	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps GF7 //lik (Line) input / Audio autput / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bit	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ssion 'Only at W-SF49 or 'Only at W-SF549 for Audo 'Only at W-SF549	LOW / NORMAL / FINE 0.2 / 0.2 / 0.3 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Full duplex) Level 1 only / Level 2 higher / All users	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bit	Bit Rate/Client Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval Irransmission Type ssion 'Only at WV-SF549 for Audo 'Only at WV-SF549 Rate	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 04 / 128 / 256 / 384 / 512 / 768 / 1.024 / 2.048 / 4.096 / 8.192 kbps / Unlimitec IPA: TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, TNP, DNS, NTP, SNMP, DHCP46, CMP, APP	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bit	Bit Rate/Client Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval Irransmission Type ssion 'Only at WV-SF549 for Audo 'Only at WV-SF549 Rate	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps GF7 /Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 2.048 / 4.006 / 8.192 kbps / Unlimited IP-% TCP/IP, UDP/IP, HTTP, HTTP, RTP, FITP, SHTP, ONS, NTP, SNMP, DHCP-%G, CMP APR IP-% TCP/IP, UDP/IP, HTTP, HTTP, RTP, FITP, SHTP, INF, TCP-IP, SMMP, DHCP-%G, CMP APR IP-% TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP/RTCP-IPT, SMMP, DHCP-%G, CMP APR	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bit Supporte	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Stor Yoly at W-SF549 or Valor Oty at W-SF549 Rate Rate	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps GF7 / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimitec IPe6 TOPIP, UDPIP, HTTP, HTTPs, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCP6.IGMP.APR IP44 TCP/IP, UDPIP, HTTP, HTTPs, RTP, FTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DNS, NTP, SMMP, UbPA/LGMP./GMP.APP	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bit	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Stor Yoly at W-SF549 or Valor Oty at W-SF549 Rate Rate	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps – 30 fps PULL / PUSH 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex 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, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP, RTP, RTP, RTP,	
	JPEG Audio Compre Audio Mode Authentication Total Bit Supporte	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type sson "Only at W-5549 for Audo "Ohy at W-5549 for Audo "Ohy at W-5549 Rate ed Protocol int	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 786 / 1.024 / 2.048 / 4.086 / 8.192 kbps / Unlimitec IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, FTP, SMTP, DNS, MTP, SNMP, DHCP-46, ICMP APR IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP, NTP, DNS, MTP, SNMP, DHCP-46, UCMP APR IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP, STP, DNS, MTP, DHCP-46, UCMP APR IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP, STP, DNS, MTP, DHCP-46, USAP APA Ama image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available: ") "Only at WW-SF34	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bitt Supporto FTP Clie No. of Sir	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type sissin "Only at W-SF349 or Value" Only at W-SF349 or Value"	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 10 steps 10 steps 9.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mc (Line) input / Audio output / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 766 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPe: TOPIP, UDPIP, HTTP, HTTPs, RTP, RTP, RTP, RTP, RTP, RTP, FTP, SMMP, DHCPA6(DMPAP IPe4: TOPIP, UDPIP, HTTP, HTTPs, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RTP	
	JPEG Audio Compre Audio Mode Authentication 1 Total Bitt Supporto FTP Clie No. of Sir	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type sson "Only at W-5549 for Audo "Ohy at W-5549 for Audo "Ohy at W-5549 Rate ed Protocol int	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 786 / 1.024 / 2.048 / 4.086 / 8.192 kbps / Unlimitec IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, FTP, SMTP, DNS, MTP, SNMP, DHCP-46, ICMP APR IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP, NTP, DNS, MTP, SNMP, DHCP-46, UCMP APR IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP, STP, DNS, MTP, DHCP-46, UCMP APR IP-& TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP, RTP, STP, DNS, MTP, DHCP-46, USAP APA Ama image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available: ") "Only at WW-SF34	
	JPEG Audio Compre Audio Mode Audientication Total Bit Supporto FTP Clie No. of Sir SDXC/S	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ssion 'Only at W-SF549 or Mudo 'Only at W-SF549 or Mudo 'Only at W-SF549 Rate ed Protocol ent multaneous Users DHC/SD	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 10 steps 10.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio autput / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA: TCP/IP, UDP/IP, HTTP, HTTP, RTP, FIP, SMTP, DNS, MTP, SMMP, DHCPA6/CMF APR IPA: TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP/RCP, FTP, SMTP, DHCP, DNS, DNS, MTP, SMUP, UPAP/GMP (CMP, APP Alam image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDX/CSDHC/SD memory card is available.) " Only at WV-SF549 Up to 14 users (Depends on network conditions) H_264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC	
	JPEG Audio Compre Audio Mode Authentication Total Bit Support FTP Clie No. of Sir SDXC/S Memory	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ssion "Only at W-5549 for Audo "Dhy at W-5549 for Audo "Dhy at W-5549 Rate ed Protocol ed Protocol mt multaneous Users Card (Option)	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1.024 / 2.048 / 4.096 / 8.192 kbps / Unlimitec IPv6: TOP/I, DUP/IP, HTTP, HTTP, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, (CMP.APR IPv6: TOP/I, DUP/IP, HTTP, HTTP, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, (CMP.APR IPv6: TOP/I, DUP/IP, HTTP, HTTP, RTP, RTP, RTP/RTCP/FTP, SMMP, DHCPv6, (CMP.APR IPv6: TOP/I, DUP/IP, HTTP, HTTP, RTP, RTP, RTP/RTCP/FTP, SMMP, DHCPv6, (SMP.APR IPv6: TOP/I, DUP/IB, HTTP, HTTP, RTP, RTP, RTP/RTCP/FTP, SMMP, DHCPv6, SMP, APR Ama image transmission, FTP periodic transmission (When the FTP transmission is falled, backup on an optional SDXC/SDMC/SD memory card is available. ") 'Only at WW-SF54 Up to 14 users (Depends on network conditions) H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC JF66 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC	
	JPEG Audio Compre Audio Mode Authentication Total Bit Support FTP Clie No. of Sir SDXC/S Memory	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ssion 'Only at W-SF549 or Mudo 'Only at W-SF549 or Mudo 'Only at W-SF549 Rate ed Protocol ent multaneous Users DHC/SD	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / WULTICAST 10 steps 10 steps 10 steps 9.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps GF/ Mc (Line) input / Audio output / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPe: TOP/R, UDP/R, HTTP, HTTPs, RTP, RTP, RTP, RTP, RTP, RTP, PLOPA, OLMP, APR 14.7 CDP/R, UDP/R, HTTP, HTTPs, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RTP	
	JPEG Audio Compre Audio Mode Audinefication Total Bit Support FTP Clie No. of Sir SDXC/S Memory *Only at	Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ssion "Only at W-5549 for Audo "Dhy at W-5549 for Audo "Dhy at W-5549 Rate ed Protocol ed Protocol mt multaneous Users Card (Option)	LOW / NORMAL / FINE 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps 10 steps 10.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio autput / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA: TCP/IP, UDP/IP, HTTP, HTTP, RTP, FIP, SMTP, DNS, MTP, SMMP, DHCPA6/CMF APR IPA: TCP/IP, UDP/IP, HTTP, HTTP, RTP, RTP, RTP/RCP, FTP, SMTP, DHCP, DNS, DNS, MTP, SMUP, UPAP/GMP (CMP, APP Alam image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDX/CSDHC/SD memory card is available.) " Only at WV-SF549 Up to 14 users (Depends on network conditions) H_264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC	

TV System		NTSC	PAL	
Network	Mobile Terminal Compatibility'6	iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android™ mobile terminals		
Alarm	Alarm Source	WV-SF549		
		3 terminals input, VMD, Command alarm		
		WV-SF548		
		1 terminal input, VMD, Command alarm		
	Alarm Actions	SDXC/SDHC/SD memory recording*, E-mail notification, Indication on		
		browser, FTP image transfer, Panasonic protocol output *Only at WV-SF549		
	Alarm Log	With SDXC/SDHC/SD memory card*: 5,000 logs,		
		without SDXC/SDHC/SD memory card: 1000 logs *Only at WV-SF549		
	Schedule	Alarm / VMD / Access permission / H.264 recording		
Input/	Monitor Output		VBS: 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		
	*Only at WV-SF549	(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		
	*Only at WV-SF549			
	External I/O Terminals	WV-SF549 ALARM IN 1/DAY/NIGHT IN, ALARM IN 2/ALARM OUT, ALARM IN 3/AUX OUT		
		WV-SF548		
		ALARM IN 1, ALARM OUT, AUX OUT		
General	Safety/EMC Standard	UL (UL60950-1), FCC (Part15 ClassA),		
		C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
		DOC (ICES003 ClassA)		
	Power Source and	WV-SF549		
	Power Consumption	12V DC: 530 mA *, PoE (IEEE802.3af compliant) / PoE 48 V: 120 mA (Class 2 device) WV-SE548		
		12V DC: 510 mA *, PoE (IEEE802.3af compliant) / PoE 48 V: 115 mA (Class 2 device) * FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.		
	Ambient Operating Temperature			
	Ambient Operating Temperature	Less than 90 % (no condensation)		
	Shock Resistance	Compliant with 20J IEC60068-2-75/ IEC 62262 IK10		
	Dimensions	Ø132 mm x 102.5 mm (H) {Ø5-3/16 inches x 4-1/32 inches (H)}		
	Mass (approx.)	710g (1.57 lbs)		
	Finish	Main body: Aluminum die cast, sail white		
	1 111311	Dome section: Clear polycarbonate resin		
		Dome section. Clear polycarbonate resin		

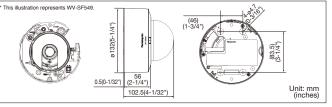
1 Converted value
 21 f*1.3 megapixel [4:3]* is selected for the imaging mode, the viewing angle will become narrower.
 3 Refer to "Notes on Windows Vista" / Windows* 7 / Windows* 8' on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft* Windows* 8 or Microsoft* Windows* 7 or Microsoft* Windows Vista*.
 4 When using IPv6 for communication, use Microsoft* Windows* 8 or Microsoft* Windows* 7 or Microsoft* Windows Vista*.

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

Part Names and Functions



Appearance



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