Panasonic

Super Dynamic Full HD Network Camera

WV-SP509 WV-SP508



Full HD / 1,920 x 1,080 H.264 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%¹¹ 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.
- 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 F1.4 (WV-SP509)
- High sensitivity with Day & Night (Electrical) function:0.5 lx (Color),
 0.3 lx (B/W) at F1.4 (WV-SP508)
- 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-SP509)
- 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) / ELC / 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.
- ELC: Up to 1/10,000 Electronic shutter is automatically applied for a fix iris lens. 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-SP509), 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-SP509)
- 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-SP509)
- 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
- Fog compensation
- *1 Compared with WV-NP502. Reduction effect may vary depending on object and image quality setting conditions.

Standard Accessories

- Wire lug fixing screws
 (M2.5 x 8 mm {5/16 inches})
 2 pcs. (of them, 1 for spare)

 Washer

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

TV Systen Camera	1		NTSC PAL	
Calllela		cor		
	Image Sensor		1/3 type MOS Sensor	
	Effective Pixels		Approx. 3.1 megapixel	
	Scanning Mode		Progressive scan	
	Scanning Area		4.51 mm (H) x 3.38 mm (V) {3/16 inches (H) x 1/8 inches (V)}	
	Minimum I		WV-SP509 : Color: 0.5 lx, BW: 0.06 lx (F1.4, Auto slow shutter: Off (1/30s), Gain:On(High))	
	IVIIIIIIIIIIII	iumination		
			Color: 0.03 lx, BW 0.004 lx (F1.4, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1	
			WV-SP508 : Color: 0.5 lx, BW: 0.3 lx (F1.4, Auto slow shutter: Off (1/30s), Gain:On(High))	
			Color: 0.03 lx, BW 0.02 lx (F1.4, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1	
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K	
	Light Control Mode			
	Light Cont	roi iviode	Outdoor scene: Automatic integration of ALC and ELC	
			Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s	
			Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s	
			ELC: (up to 1/10,000 sec.)	
	Shutter Sp	ood	Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500	
	Shutter Sp	eed		
			1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic Off)	
	Super Dynamic		ON / OFF	
	Dynamic Range		52 dB typ. (Super Dynamic: ON, Light Control Mode: indoor)	
			ON / OFF (Only at Super Dynamic: ON)	
	Face Super Dynamic			
	Adaptive Black Stretch		ON / OFF (Only at Super Dynamic: 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)	
	Day & Night		WV-SP509: IR Mode: AUTO1 / AUTO2 / ON / OFF,	
	Digital Noise Reduction			
			Level: High / Low, with external control	
			WV-SP508: Electrical Mode: OFF / AUTO	
			High / Low	
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone		Up to 2 zones, Gray	
	Upside Down		ON / OFF	
	VIQS		Up to 2 zones	
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks)	
	Back Focus Adjustment		ABF/MANUAL, ABF mode upon CL/BW switching: AUTO / PRESET / FIX	
	Lens Distortion Compensation			
Browser GUI	Cropping		H.264(2) / JPEG(VGA or 640 x 360) / JPEG(QVGA or 320 x 180)	
			Up to 4 image capture areas can be specified	
	Camera Control		Brightness, AUX ON / OFF, Zoom (1x, 2x 4x)	
	Display Mo		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
	Display Wic	, ac		
			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 Disp		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-SP509	
	SD Memony Data Download			
	SD Memory Data Download		Still or motion Images recorded in the SDXC/SDHC/SD memory	
			card can be downloaded. (Only at WV-SP509)	
	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 when the recording	
			format is set to JPEG.) error logs (Only at WV-SP509)	
	Supported OS *2 *3		Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®,	
	Supported Browser		Microsoft® Windows® XP SP3	
			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 IF		10Base-T / 100Base-TX, RJ-45 connector	
Network	TACEMONE			
Network	Image			
Network	Image	Image Capture Mode:	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps	
Network	Image	Image Capture Mode: 2 mega pixel [16:9]	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps	
Network	Image	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode:	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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	
Network	Image	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9]	$\rm H.264:1,920\times1,080$ / $\rm 640\times360$ / $\rm 320\times180,$ up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
Network	Image	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9]	$\rm H.264:1,920\times1,080$ / $\rm 640\times360$ / $\rm 320\times180,$ up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
Network	Image	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode:	$\begin{array}{l} H.264: 1,920\times 1,080 \ / \ 640\times 360 \ / \ 320\times 180, \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,920\times 1,080 \ / \ 640\times 360 \ / \ 320\times 180, \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 720 \ / \ 640\times 360 \ / \ 320\times 180, \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 720 \ / \ 640\times 360 \ / \ 320\times 180, \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 720 \ / \ 640\times 360 \ / \ 320\times 180, \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VVGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VVGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ / \ VGA(320\times 240), \ up \ to \ 30 \ fps \\ JPEG \ (MJPEG): 1,280\times 960 \ / \ VGA(640\times 480) \ $	
Network	Image	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3]	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps	
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Network	Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Frame Rate	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 2,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /	
Network	Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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 H.264: 1,280 x 960 / WGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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	
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Network	Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE	
Network	Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [6:3] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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 H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE Q.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
Network	Image Resolution	image Capture Mode: 2 mega pixel [16:9] image Capture Mode: 1.3 mega pixel [16:9] image Capture Mode: 1.3 mega pixel [4:3] image Capture Mode: 3 mega pixel [4:3] image Capture Mode: 7 mega pixel [4:3] image Capture Mode: 8 mega pixel [4:3] image Capture Mode: 1 mage Captur	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,436 x 10 to 15 fps JPEG (MJPEG): 2,057 x 10 to 15 f	
Network	Image Resolution	image Capture Mode: 2 mega pixel [16:9] image Capture Mode: 1.3 mega pixel [16:9] image Capture Mode: 1.3 mega pixel [4:3] image Capture Mode: 3 mega pixel [4:3] image Capture Mode: 7 mega pixel [4:3] image Capture Mode: 8 mega pixel [4:3] image Capture Mode: 1 mage Captur	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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 H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE Q.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
Network	Image Resolution	image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Transmission Mode Framme Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 10 to 15 fps JPEG (MJPEG): 2,048 x 10 to 15 fps JPEG (MJPEG): 2,048 x 10 to 15 fps JPEG (MJPEG	
Network	Image Resolution H.264 *4 JPEG	Image Capture Mode: 2 mega pixel (16:9) Image Capture Mode: 1.3 mega pixel (16:9) Image Capture Mode: 1.3 mega pixel (16:9) Image Capture Mode: 3 mega pixel (4:3) Image Capture Mode: 3 mega pixel (4:3) Image Capture Mode: 7 mega pixel (4:3) Image Capture Mode: 8 mega pixel (4:3) Image Capture Mode: 7 mega pixel (4:3) Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Image Type Image Quality Refresh Interval Transmission Type Image Quality Refresh Image Quality Ref	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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 H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL / FINE QLY / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 / 10,240 / 10,240 / 12,288 / 14,336 kbps LOW / NORMAL	
Network	Image Resolution H.264 *4 JPEG Audio Compression	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type 10 m "Only at WV-SP500"	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,80 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 7,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 , up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant birate / Framerate priority / Best effort / Advanced VBR 1/3/5/7.5/10/12/15/20/30 fps 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 LOW / NORMAL / FINE 0.2 / 0,25 / 0,33 / 0,5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps O.1 fps ~ 30 fps PULLL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *(Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 5 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type 0 mony at WS-P509 Only at WW-SP509	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 10 to 15 fps JPEG (MJPEG): 2,04	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *(Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 5 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type 0 mony at WS-P509 Only at WW-SP509	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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) / CVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 / WGA(640 x 480) / CVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 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 CFF / Mic Line) input / Audio output / Interactive (Half duples) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users	
Network	Image Resolution H.264 *4 JPEG Audio Compressis Audio Mode *0 Altherication to A	Image Capture Mode: 2 mega pixel (16:9) Image Capture Mode: 1.3 mega pixel (16:9) Image Capture Mode: 1.3 mega pixel (16:9) Image Capture Mode: 3 mega pixel (4:3) Image Capture Mode: 3 mega pixel (4:3) Image Capture Mode: 7 mega pixel (4:3) Image Capture Mode: 8 mega pixel (4:3) Image Capture Mode: 8 mega pixel (4:3) Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type 1 mega Quality Refresh Interv	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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) / CVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 / WGA(640 x 480) / CVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 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 CFF / Mic Line) input / Audio output / Interactive (Half duples) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *C Althentication for A	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mage Dixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Images Quality Refresh Interval Transmission Type Images Output Transmission Type on "Only at WV-SP509 Only at WV-SP509 date"	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 , up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE 0.2 / 0,25 / 0,33 / 0,5 / 1 / 2 / 34 / 5 s UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULLL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mc Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / 1024 / 2,048 / 4,096 / 8,192 kbps / Unlimitee	
Network	Image Resolution H.264 *4 JPEG Audio Compressis Audio Mode *0 Altherication to A	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mage Dixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Images Quality Refresh Interval Transmission Type Images Output Transmission Type on "Only at WV-SP509 Only at WV-SP509 date"	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 7,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 9720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 fps 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 LOW / NORMAL / FINE D.2 / 0,25 / 0,33 / 0.5 / 1 / 2 / 3 / 4 / 5 S UNICAST / MULTICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH 0.726 / 2,726 (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 / Unlimitec Phe: TCP/P, UDP/P, HTTP, HTTP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, FTP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, STP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, STP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, STP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, STP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, HTTP, STP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, STP, FTP, SMP, P.NS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, STP, SMP, PLOS, MTP, SMMP, DHCPAG, CMP, ARC 1 CP/P, UDP/P, HTTP, STP, SMP, PLOS, MTP, S	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *C Althentication for A	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mage Dixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Images Quality Refresh Interval Transmission Type Images Output Transmission Type on "Only at WV-SP509 Only at WV-SP509 date"	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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) / CVGA(320 x 240), up to 30 fp H.264: 1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 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 CFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *C Althentication for A	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mage Dixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Images Quality Refresh Interval Transmission Type Images Output Transmission Type on "Only at WV-SP509 Only at WV-SP509 date"	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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 H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE Q.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 GFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive [Full duplex Level 1 only / Level 2 higher / All users 44 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimitec Hext CPPIP, UDPIP, HTTP, HTTP, RTP, FTP, SRTP, NS, NTP, SMP, DHCP-QNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-S, RTP, RTPR, PSP, RTP, RTP, PSP, PSP, PSP, DND, DNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-COMP, DHCP-QNS, DNS, PR-COMP, DNS, DNS,	
Network	Image Resolution H.264 *4 JPEG Audio Compressi Audio Mode *(Authentication for A Total Bit R Supported	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mage Capture Mod	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264: 1,280 x 960 , up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps JPEG (MJPEG): 2,048 x 1,536 x	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *C Althentication for A	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mage Capture Mod	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 /	
Network	Image Resolution H.264 *4 JPEG Audio Compressi Audio Mode *(Authentication for A Total Bit R Supported	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mage Capture Mod	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536 x 10 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps for 1/3 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 /	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *C Authentication to A Total Bit R Supported	Image Capture Mode: 2 mega pixel 16:39 Image Capture Mode: 1 mega pixel 16:39 Image Capture Mode: 1.3 mega pixel [16:39 Image Capture Mode: 3. mega pixel [4:3] Image Capture Mode: 3. mega pixel [4:3] Image Capture Mode: 7 mega pixel [4:3] Image Capture Mode: 1.3 mega pixel [4:3] Image Capture Mode: 7 mega pixel [4:3] Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Jun 'Only at WV-SP509 Only at WV-SP509 July at W	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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) / CVGA(320 x 240), up to 30 fp H.264: 1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 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 CFF / 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 (Hexit ToPiP, UDPIP, HTTP, HTTP, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCP-GNS, DNS, NTP, SMMP, UPP-P,GMS, DNS, UPS, SMMP, UPP-P,GMS, DNS, SMMP, UPP-P,GMS, DNS, UPS, SMMP, UPP-P,GMS, DNS, UPS, SMMP, UPP	
Network	Image Resolution H.264 *4 JPEG Audio Compression Audio Mode *(Authentication for A Total Birt R Supported FTP Client No. of Simu	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval Irransmission Type on "Only at WV-SP509 Only at WV-SP509 atte Protocol	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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 fp H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps LPEG (MJPEG): 2,048 x 1,536, up to 15 fps LPEG (MJPEG): 2,048 x 1,536, up to 15 fps LPEG (MJPEG): 2,048 x 1,536, up to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 10 to 15 fps LPEG (MJPEG): 2,048 x 1,536 x 1,5	
Network	Image Resolution H.264 *4 JPEG Audio Compressic Audio Mode *6 Altherication to A Total Bit R Supported FTP Client No. of Simu SDXC/SDP	image Capture Mode: 2 mega pixel [16:9] image Capture Mode: 1.3 mega pixel [16:9] image Capture Mode: 1.3 mega pixel [16:9] image Capture Mode: 3 mega pixel [4:3] image Capture Mode: 3 mega pixel [4:3] image Capture Mode: 1.3 mega pixel [4:3] image Capture Mode: 1.3 mega pixel [4:3] image Capture Mode: 1.3 mega pixel [4:3] image Quality Refresh Interval 1.7 mansission Type Image Capture 1.7 mansission Type Image Capture 1.7 mansission Type Image Capture Mode: 1.3 mega pixel [4:3] 1.4 mega pixel [4:3	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fp JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps LOW / NORMAL / FINE CONSTANT STATE / CO	
Network	Image Resolution H.264 *4 JPEG Audio Compressic Audio Mode *6 Altherication to A Total Bit R Supported FTP Client No. of Simu SDXC/SDP	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 3 mega pixel [4:3] Image Capture Mode: 1 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval Irransmission Type on "Only at WV-SP509 Only at WV-SP509 atte Protocol	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fp JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fp JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps LOW / NORMAL / FINE CONSTANT STATE / CO	
Network	Image Resolution H.264 *4 JPEG Audio Compressic Audio Mode *6 Altherication to A Total Bit R Supported FTP Client No. of Simu SDXC/SDP	Image Capture Mode: 2 mega pixel 16:39 Image Capture Mode: 1 mega pixel 16:39 Image Capture Mode: 1.3 mega pixel [16:39 Image Capture Mode: 3. mega pixel [4:3] Image Capture Mode: 3. mega pixel [4:3] Image Capture Mode: 3. mega pixel [4:3] Image Capture Mode: 7 mem Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Jon 'Only at WV-SP509 Only at WV-SP509 July at	H.264: 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps 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 JPEG (MJPEG): 1,920 x 720 / 640 x 360 / 320 x 180, up to 30 fps 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 fp H.264: 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fp H.264: 1,280 x 960, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps JPEG (MJPEG): 2,048 x 1,536, up to 15 fps Constant bitrate / Framerate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 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 LOW / NORMAL / FINE Q.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s UNICAST / MULTICAST 10 steps Q.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps GFF / 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 Hexit TOPIP, UDPIP, HTTP, HTTP, RTP, FTP, SMTP, DNS, NMP, DNCP-GNS, DNS, NTP, SNMP, DH-P, DNS, DNS, NTP, SNMP, UPP-P, DNS, DNS, NTP, SNMP, DNS-P, DNS-P, DNS, DNS, NTP, SNMP, DNS-P, DNS, DNS, NTP, SNMP, DNS-P, DNS-P, DNS, DNS, NTP, SNMP, DNS-P, DNS-P	

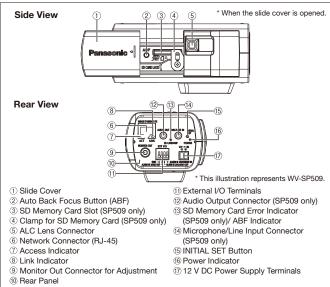
- All TV pictures are simulated.
- Masses and dimensions are approximate.
- Specifications are subject to change without notice.
 These products may be subject to export control regulations.
 All product pictures are NTSC models.

TV Systen	1	NTSC	PAL	
Network	Cellular Phone Compatibility	JPEG image		
	Mobile Terminal Compatibility'5	iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals		
Alarm	Alarm Source	WV-SP509: 3 terminals input, VMD, Command alarm		
		WV-SP508: 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-SP509		
	Alarm Log	With SDXC/SDHC/SD memory card*: 5000 logs,		
		without SDXC/SDHC/SD memory card: 1000 logs *Only at WV-SP509		
	Schedule	Alarm / VMD / Access permission / H.264 recording		
Input/	Monitor Output	VBS: 1.0 V [p-p]/75 Ω,	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 (monaural input) (Applicable		
	*Only at WV-SP509	microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ		
	Audio Output *Only at WV-SP509	ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	${\rm WV\text{-}SP509:ALARMIN1/DAY/NIGHTIN,ALARMIN2/ALARMOUT,ALARMIN3/AUXOUT}$		
		WV-SP508: ALARM IN 1 / DAY/NIGHT IN, 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-SP509: 12V DC: 570 mA*, PoE (IEEE802.3af compliant) / PoE 48 V: 125 mA (Class 2 device)		
	Power Consumption	WV-SP508: 12V DC: 550 mA*, PoE (IEEE802.3af compliant) / PoE 48 V: 120 mA (Class 2 device)		
		* FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY.		
	Ambient Operating Temperature			
	Ambient Operating Humidity	Less than 90 % (no condensation)		
	Dimensions	75 mm (W) x 65 mm (H) x 132.5 mm (D)		
		{2-31/32"(W) x 2-9/16"(H) x 5-1/4"(D)} excluding connectors/terminals		
	Mass (approx.)	420 g (0.93 lbs)		
	Finish	Fine Silver (501)		

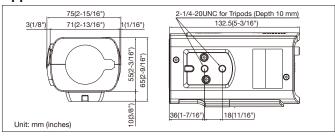
- *1 Converted value
- "2 Refer to "Notes on Windows Vista" / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- "3 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

 *4 Transmission for 2 streams can be individually set in the same compression method.
- *5 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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 Important

 Safety Precaution: Carefully read the operating instructions and installation manual before using this product.

 Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

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