

Outdoor Pan-tilting Network Camera WV-SW175 WV-SW172



HD / 1,280 x 960 H.264 Pan-tilting Network Camera (WV-SW175) SVGA / 800 x 600 H.264 Pan-tilting Network Camera (WV-SW172)

Key Features

- 720p HD images up to 30 fps (WV-SW175)
- 1.3 Megapixel high sensitivity MOS Sensor
- Super high resolution at SVGA/800 x 600 created by 1.3 Megapixel high sensitivity MOS Sensor (WV-SW172)
- 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-SW175)
- Full frame (Up to 30 fps) transmission at SVGA (800 x 600) image size (WV-SW172)
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- High sensitivity with Day & Night (Electrical) function:
 0.6 lx (Color), 0.5 lx (B/W) at F2.2
- 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.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene(60Hz) / 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.

- 2x extra zoom at VGA resolution
- 8x digital zoom controlled by browser
- 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.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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
- Panning/tilting and Preset Map Shot function realizes wide range monitoring..(Horizontal angle:180° Vertical angle 123°)
- Easy installation: Easy to adjust directions.
- Interactive communication with audio: By using the audio output connector and the microphone in connector, receiving audio from the cameras on a PC and transmitting audio from the PC to the cameras is available.
- IP55 rated water and dust resistant. Compatible with IEC60529
- Best effort on Transmission priority: In accordance with the network bandwidth, H.264 images will be transmitted with the bit rate varying between the maximum and minimum bit rates that are set for "Max bit rate (per client)".

Standard Accessories

The network administrator shall retain the code label

• CD-ROM*1	• Sunshade
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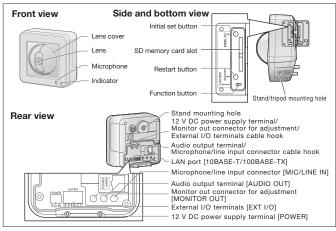
Specifications

TV System	ficatior				
			NTSC PAL		
Camera	Image Senso	or	1/4 type MOS Sensor		
	Effective Pix	els	Approx. 1.3 megapixels		
	Scanning Mo	ode	Progressive		
	Scanning Area		3.52 mm (H) x 2.64 mm (V) (7/50" (H) x 1/10" (V))		
	Minimum IIIu	mination	Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))		
			Color: 0.038 kr (F2.2, Auto slow shutter: Max. 16/30s, Gain:On(High)) ¹ BW: 0.51 kr (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High)) ¹ BW: 0.031 kr (F2.2, Auto slow shutter: Off (16/30s), Gain:On(High)) ¹ AWC (2.000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) Indoor scene (50 Hz / 60 Hz) / ELC		
	White Baland				
	Light Control				
	Shutter Spee	d	ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s), ELC (1/100 s), ELC (1/120 s), ELC (1/250 s), ELC (1/500 s), ELC (1/1,000 s), ELC (1/2,000 s), ELC (1/4,000 s), ELC (1/10,000 s)		
	Wide Dynami	ic Range	ON / OFF ON / OFF		
	Face Wide Dy				
	Adaptive Blad		ON / OFF		
	AGC		ON (HIGH) / ON (MID) / ON (LOW) / OFF		
	Electronic Sensitivity UP Day & Night(electrical) Dynamic Range Digital Noise Reduction Video Motion Detection Privacy Zone Camera Title (OSD)		OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, Max. 6/30 s, Max. 10/30 s, Max. 16/30 s OFF / AUTO 24 dB typ, (WDR: ON, Light Control: ELC) HIGH / LOW ON / OFF, 4 areas available ON / OFF (up to 2 zones available) Up to 20 characters (alphanumeric characters, marks) , On/Off		
Lens	Focal Length		1.95 mm		
	Zoom Ratio		Extra zoom: 2x (at VGA resolution)		
	Angular Field of View		Horizontal: 85 °, Vertical: 68 °		
	Maximum Aperture Ratio		1:2.2		
Dan	Focusing Range		0.5 m ~ ∞		
ran and Tilt	Panning Rang		-47.5° +47.5° Manual: Approx 5°/a 80°/a Broast: Up to approx 80°/a		
	Panning Speed		Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s		
	Tilting Range Tilting Speed		-45° to +10° Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s		
			64		
	Number of Preset Positions PTZ Position Display		ON / OFF		
	Self Return		10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min		
	Map Shot		Preset map-shot		
Browser GUI	Camera Con	trol	Brightness, AUX ON / OFF		
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	., .,		screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Zoom		extra zoom(1x - 2x) and the electronic zoom (higher zoom factors, up to 16x).		
	Camera Title		Up to 20 alphanumeric characters		
	Clock Displa	y	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		
			Still or motion Images recorded in the SDHC/SD memory card can be downloaded. English, Japanese, Italian, French, German, Spanish, Chinese, Russian Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the		
	Supported OS *2 *3		recording format is set to JPEG.) error logs Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Supported OS 2 5 Supported Browser		Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit), Windows® Internet Explorer® 6.0 SP3		
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector (female)		
HOLWOIK	Image Resolution *4	Aspect ratio: [4 : 3]	WV-SW175:		
		' ' '	H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			WV-SW172: $\rm H.264:800\times600$ / VGA (640 \times 480) / QVGA (320 \times 240), up to 30 fps		
		Aspect ratio: [16:9]	H.264: 800 \times 600 / VGA (640 \times 480) / QVGA (320 \times 240), up to 30 fps JPEG: 800 \times 600 / VGA (640 \times 480) / QVGA (320 \times 240), up to 30 fps WV-SW175:		
		Aspect ratio: [16:9]	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172:		
			H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps		
	H.264	Transmission Mode	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 800 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort		
	H.264	Transmission Mode	H.264: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 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 /		
	H.264	Transmission Mode Frame Rate Bit Rate/Client	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 800 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 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 kbps		
	H.264	Transmission Mode Frame Rate Bit Rate/Client Image Quality	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Gonstant bitrate / Best effort 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 kbps LOW/ NORMAL / FINE		
	H.264	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	H.264: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 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 kbps LOW / NORMAL / FINE 1 fps - 30 fps		
		Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 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 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST		
	H.264	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	H.264: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 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 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps		
		Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval	H.264: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 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 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps		
		Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Transmission Type	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Gonstant bitrate / Best effort 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 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH		
	JPEG	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type Transmission Type Transmission Type	H.264: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 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 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps		
	JPEG Audio Comp	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type rression	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 800 x 800 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 380 / 320 x 180, up to 30 fps JPEG: 640 x 380 / 320 x 180, up to 30 fps JPEG: 640 x 380 / 320 x 180, up to 30 fps Gonstant bitrate / Best effort 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 kbps LOW / NORMAL / FINE 1 fps – 30 fps JUNICAST / MULTICAST 10 steps 0.1 fps – 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps GF/ Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users		
	JPEG Audio Comp	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type rression on for Audio	H.264: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 kbps JPEG: 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 kbps JPEG: 64 / 128 / 256 / 384 / 512 / 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited JPEG: CIPIE, UDPIP, HITP, HITP, HITP, HITP, HITP, SIMP, DINS, IMP, SIMP, DINCP, MID, IOMP, APP (610 FD) FOR MID, IOMP, APP		
	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type rression on for Audio	H.264: 800 x 600 / VGA (640 x 480) / OVCA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 10 / 10 / 10 / 10 / 10 / 10 / 10		
	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate Supported P	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type rression on for Audio	H.264: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps JPEG: 800 x 600 / VGA (640 x 480) / OVGA (320 x 240), up to 30 fps WV-SW175: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps WV-SW172: H.264: 640 x 360 / 320 x 180, up to 30 fps JPEG: 640 x 360 / 320 x 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps LOW / NORIMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 0.726 (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 6 / 128 / 269 / 159 / 1048 / 4,096 / 8, 192 kbps / Unlichied inet CPIP, UDPIP, HTTP, HTTPS, RTSP, FTP, SMIP, DINS, NIP, SMIP, DHCP, MIP, DNS, NIP, SMIP, DHP, CIMP, LUPP, ADNS, NIP, SMIP, DHCP, MIP, DNS, NIP, SMIP, DHCP, DNS, DNS, NIP, SMIP, DHCP, DNS, DNS, NIP, SMIP, DHP, CIMP, LUPP, AND, AND, AND, AND, AND, AND, AND, AND		
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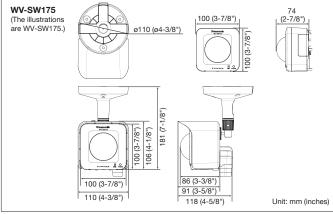
TV System			NTSC	PAL
Alarm	Alarm Source		VMD, Command alarm	
	Alarm Actions		SDHC/SD memory recording, E-mail notification, Indication on browser,	
			FTP image transfer, Panasonic protocol output	
	Alarm Log		With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs	
	Schedule		VMD	
Input/ Output	Monitor Output (for adjustment)		VBS: 1.0 V [p-p]/75 Ω,	VBS: 1.0 V [p-p]/75 Ω,
			NTSC composite, ø3.5 mm mini jack	PAL composite, ø3.5 mm mini jack
	Microphone/Line Input		ø3.5 mm monaural mini jack, Input impedance: Approx. 2.2 kΩ	
		For microphone input	Applicable microphone: Plug-in power type, Supply voltage: 3.3 V ±0.5 V	
		For line input	Input level: Approx10 dBV	
	Audio Output		ø3.5 mm stereo mini jack (monaural output), Output impedance: Approx. 560 Ω, Line level	
	External I/O Terminals		ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT, GND, 12 V DC	
General	Safety/EMC Standard		DOC (ICES003 ClassA)	CE, IEC60950-1
				(EN55022 ClassB, EN55024)
	Power Source and Power Consumption		PoE (IEEE802.3af compliant), 12V DC	
			PoE: 130 mA (Class 2 device), 12 V DC: 430 mA	
	Ambient O	perating Temperature	-20 °C ~ +50 °C (-4 °F ~ 122 °F)	
	Ambient 0	Operating Humidity	Less than 90 % (no condensation)	
	Water and	d Dust Resistance	Camera: IP55 (IEC60529) '5	
	Dimensions		100 mm (W) x 100 mm (H) x 74 mm(D) (3-47/50" x 3-47/50" (H) x 2-23/25")	
			(excluding projection)	
	Mass (app	orox.)	Main body 350 g (0.77 lbs.)	
	Finish		Main body: PC/ABS resin, silver	
			Dome section: Clear polycarbonate resin	

- *1 Converted value
 *2 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 Vista®.
 *3 When using IPv6 for communication, use Microsoft® Windows® 7 or Microsoft® Windows Vista®.
 *4 Transmission for 2 streams can be individually set in the same compression method.
 *5 Only when installation work specified in this book is properly performed and appropriate waterproof treatment is performed.

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 can not be responsible for network performance and/or other manufacturer products that reside on the network.

 Masses and dimensions are approximate.

- Specifications are subject to change without notice.
 These products may be subject to export control regulations.

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