

Outdoor Pan-tilt Wireless Network Camera WV-SW174W



HD / 1,280 x 960 H.264 Pan-tilt Wireless Network Camera

Key Features

- 720p HD images up to 30 fps
- 1.3 Megapixel high sensitivity MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
 Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies
- deliver wider dynamic range compared with conventional cameras.Face Wide Dynamic Range technology ensures clear face image.
- 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.

- 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)".
- Smartphone monitoring : Direct camera control from smartphone
- Wireless LAN function (IEEE802.11 n/g/b) : Camera images can be monitored over a wireless router.
- WPS (Wi-Fi Protected Setup) function : WPS enables the camera to automatically obtain the connection configuration information and the security configuration information of the wireless router. WPS can be configured by pressing the WIRELESS button (WPS indicator) (PBC method) or entering an 8 digit pin code (Pin code method).

Standard Accessories

Installation Guide	Foam Strip 1 pc. Power cable plug 1 pc. AC Adaptor (NTSC model only) 1 pc. AC Cord (NTSC model only) 1 pc. Extension Cord (NTSC model only) 1 pc.
*1 The CD-ROM contains the operating instructions and	different kinde of tool ooffware programs

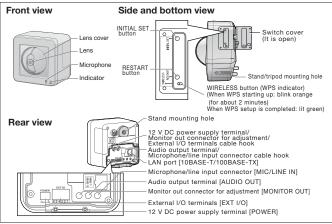
Specifications

			NTSC	PAL	
Camera	Image Sense Effective Pix		1/4 type MOS Sensor		
			Approx. 1.3 megapixels Progressive		
	Scanning Mode Scanning Area		3.52 mm (H) x 2.64 mm (V) (7/50	" (H) × 1/10" (M)	
	Minimum IIIu		Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))		
			Color: 0.038 lx (F2.2, Auto slow shu		
			BW: 0.5 lx (F2.2, Auto slow shutter:		
			BW: 0.031 lx (F2.2, Auto slow shutter: Off (16/30s), Gain:On(High)) ¹		
White Balance		се	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		
	Light Control Mode				
	Shutter Spee		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 (1/20 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) ON / OFF		
	Wide Dynam				
			ON / OFF		
	Adaptive Bla	ck Stretch			
	AGC		ON (HIGH) / ON (MID) / ON (LOW) / OFF		
	Electronic Se		OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, I	Max. 6/30 s, Max. 10/30 s, Max. 16/30 s	
	Day & Night		OFF / AUTO		
	Dynamic Range Digital Noise Reduction		24 dB typ. (WDR: ON, Light Control: ELC) HIGH / LOW		
	Video Motion Detection		ON / OFF, 4 areas available		
	Privacy Zone		ON / OFF (up to 2 zones available)		
	Camera Title (OSD)		Up to 20 characters (alphanumeric characters, marks) , On/Off		
Lens	Focal Lengt	1	1.95 mm	2)	
	Zoom Ratio	d of Micro	Extra zoom: 2x (at VGA resolution)		
	Angular Field of View Maximum Aperture Ratio		Horizontal: 85 °, Vertical: 68 °		
Don and The	Focusing Ra		0.5 m ~ ∞		
ran and Lift	Panning Rang		-47.5° +47.5° Manual: Approx. 5 °/a - 80 °/a Braggt: Up to approx. 80 °/a		
	Panning Speed		Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s		
	Tilting Range		-45° to +10°		
	Tilting Speed Number of Preset Positions		Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s		
			64 ON (OEE		
	PTZ Position Display		ON / OFF 10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min		
	Self Return		Preset map-shot		
Prowoor CIII	Map Shot		Brightness, AUX ON / OFF		
browser doi	Camera Control Display Mode				
	Display Woo	e	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 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	Auro	Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,		
	Audio		Audio Output: ON / OFF Volume adjustment: Low / Middle / High,		
	GUI/Setup Menu Language				
	System Log		Up to 100 (Internal) error logs		
	Supported OS 12 13		Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Supported Browser		Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),		
			Windows Internet Explorer 9.0 (32 bit), Windows Internet Explorer 6.0 (32 bit), Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3		
Wireless	Antenna 802.11n		1 x 1 (Diversity)		
Wireless	Transmission system		SISO (Single Input/Single Output)-OFDM system, OFDM system, DSSS system		
	Communication standard		International standard IEEE802.11 n / IEEE802.11 g / IEEE802.11 b compliant		
		n standard	WV-SW174W: IEEE802.11 n/g/b WV-SW174WE: IEEE802.11 n/g/b		
			WV-SW174W: IEEE802.11 n/g/b		
	Communicatio	ge/	WV-SW174W: IEEE802.11 n/g/b 2.412 GHz - 2.462 GHz (1 – 11ch)	2.412 GHz - 2.472 GHz (1 - 13ch)	
	Communicatio Frequency ran	ge/		2.412 GHz - 2.472 GHz (1 - 13ch)	
	Communicatio Frequency ran	ge/ er frequency)		2.412 GHz - 2.472 GHz (1 – 13ch)	
	Communicatio Frequency ran Channel (cente	ge/ er frequency)	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps	2.412 GHz - 2.472 GHz (1 – 13ch)	
	Communicatio Frequency ran Channel (cente	ge/ er frequency)	2.412 GHz - 2.462 GHz (1 - 11ch)	2.412 GHz - 2.472 GHz (1 – 13ch)	
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Wireless	Communicatio Frequency rang Channel (center Data transfer ra Access meth Authenticati Security ⁵	ge/ er frequency) ate ^{*4} hod	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 g: 6 - 54 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (situreless status display)), PIN method (PIN code method)	
	Communicatio Frequency ran Channel (cente Data transfer ra Access mett Authenticati Security ⁵ WPS	ge/ er frequency) ate ^{*4} hod	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 g: 6 - 54 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (situreless status display)), PIN method (PIN code method)	
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hardware	Communicatio Frequency ran Channel (cente Data transfer ra Access mett Authenticati Security' ⁵ WPS LED Interface	ge/ r frequency) ate ⁻⁴ hod on method	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 g: 6 - 54 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (status display) Wireless Sutton (for setting up 10Base-T / 100Base-TX, RJ-456 H.264: 1.280 x 960 / VGA (640 x 48), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps	
hardware	Communicatio Frequency ran Channel (cente Data transfer ra Access metil Authenticati Security ³ WPS LED Interface Network IF	ge/ pr frequency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3]	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 g: 6 - 54 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WPAWPA2-PSK (TKIP/AES) WPE (4 bit/128 bit) PBC method (push button method Wireless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 H.264: 1,280 x 960 / VGA (640 x 48 JPEG: 1,280 x 960 / VGA (640 x 48), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fp:	
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hardware	Communicatio Frequency ram, Channel (cente Data transfer ra Access metti Authenticatio Security ⁵ WPS LED Interface Network IF Image Resolution ¹⁶	ge/ er frequency) ate ⁻⁴ hod on method Aspect ratio: [16 : 9] <u>Transmission Mode</u> <u>Frame Rate</u> Bit Rate/Client Image Quality Transmission Type	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 p: 6.5 - 72.2 Mbps IEEE802.11 p: 6 - 54 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-456 H.264: 1.280 × 960 / VGA (640 × 44 JPEG: 1.280 × 920 / 404 × 360 / 32 Constant bitrate / Best effort 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4.096 / 8.192 Kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps 0) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 30 fps	
hardware	Communication Frequency ran Channel (center Data transfer nr Access mett Authenticati Security ⁵ WPS LED Interface Network IF Inage Resolution ¹⁶ H.264	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Image Quality	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 g: 6 – 54 Mbps IEEE802.11 b: 1 – 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WWP (64 bit/128 bit) PBC method (push button method Wreless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 C H264: 1,280 x960 / VGA (640 x48 JPEG: 1,280 x960 / VGA (640 x48 JPEG: 1,280 x960 / VGA (640 x48 JPEG: 1,280 x720 / 640 x360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 4 / 036 / 8,192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fp 0) / QVGA (320 x 240), up to 30 fp 0 x 180, up to 30 fps 0 x 180, up to 30 fps 30 fps	
hardware	Communication Frequency ran Channel (center Data transfer nr Access mett Authenticati Security ⁵ WPS LED Interface Network IF Inage Resolution ¹⁶ H.264	ge/ er frequency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality, Refresh Interval Image Quality, Refresh Interval Imagin Transmission Type	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (wireless status display) WIRELESS button (for setting up IDBase-T / 100Base-TX, RJ-45 (H.264: 1,280 × 960 / VGA (640 × 48 JPEG: 1,280 × 960 / VGA (640 × 48 JPEG: 1,280 × 960 / VGA (640 × 48 JPEG: 1,280 × 720 / 640 × 360 / 32 Constant bitrate / Best effort 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4.096 / A.192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fp 0) / QVGA (320 x 240), up to 30 fp 0 x 180, up to 30 fps 2 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 /	
hardware	Communicatio Frequency ran, Channel (cente Data transfer ri Access mett Authenticatii Security ⁻⁵ WPS LED Interface Network IF Inage Resolution ⁻⁹ H.264 JPEG Audio Comm	ge/ pr frequency) ate ⁻⁴ hod on method Aspect ratio: [16 : 9] <u>Transmission Mode</u> <u>Bit Rate/Client</u> <u>Image Quality</u> <u>Refresh Interval</u> <u>Transmission Type</u> <u>resesion</u>	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 p: 6 - 54 Mbps IEEE802.11 p: 6 - 54 Mbps IEEE802.11 p: 1 – 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (situs display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-456 H.264: 1.280 x 960 / VGA (640 x 48 JPEG: 1.280 x 960 / VGA (640 x 48 JPEG: 1.280 x 960 / VGA (640 x 48 JPEG: 1.280 x 720 / 640 x 360 / 32 Constant bitrate / Best effort 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4.096 / 8, 192 kbps LOW / NORMAL / FINE 1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kb), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / OVGA (320 x 240), up to 30 fps 10) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / cos, G.711 64 kbps	
hardware	Communicatio Frequency ran Channel (cente Data transfer ri Access mett Authenticati Security ⁵ WPS LED Interface Network IF Inage Resolution ¹⁶ H.264 JPEG Audio Comg Audio Mode	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Iransmission Type Image Quality Refresh Interval Transmission Type Image Quality Aspect Rate/Client Transmission Type Image Quality Aspect Rate/Client Transmission Type Transmission Type	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 p: 6 – 54 Mbps IEEE802.11 b: 1 – 11 Mbps Infrastructure mode Open System WPA/WPA2-PSK (TKIP/AES) WPA/WPA2-PSK (TKIP/AES) WPE (64 bit/128 bit) PBC method (push button method Wrieless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 C H264: 1,280 x960 / VGA (640 x48 JPEG: 1,280 x960 / VGA (640 x48 JPEG: 1,280 x960 / VGA (640 x48 JPEG: 1,280 x720 / 640 x360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 4,096 / 8,192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbp OFF / Mic (Line) input / Audio output / Inter), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fp 0) / QVGA (320 x 240), up to 30 fp 0 x 180, up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / ps, G.711 64 kbps active (Half duplex) / Interactive (Full duple	
hardware	Communicatio Frequency ran, Channel (cente Data transfer rr Access mett Authenticati Security' ⁵ WPS LED Interface Network IF Image Resolution ¹⁶ H.264 JPEG Audio Comm Audio Mode Authenticati	ge/ er frequency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval Intransmission Type Intransmission Type Intransmission Type Intransmission Type Intransmission Type Intransmission Type Intransmission Type Intransmission Type Intransmission Type Intransmission Type	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 b: 1 – 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (wireless status display) Wireless Switon (for setting up 10Base-T / 100Base-TX, RJ-45 c H.264: 1,280 × 960 / VGA (640 × 48 JPEG: 1,280 × 960 / VGA (540 × 48 JPEG: 1,280 × 720 / 640 × 360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4,096 / 8,192 kbps LOW / NORMAL / FINE 1 fps – 30 fps UNICAST / MULTICAST 10 steps 0.1 fps – 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kb OFF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / All u), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fp 0) / QVGA (320 x 240), up to 30 fp 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / 0,024 / 1,536 / 2,048 / 3,072 / 0,024 / 1,536 / 2,048 / 3,072 / 0,024 / 1,024 / 1,026 / 2,048 / 3,072 / 0,024 / 1,026 / 2,048 / 3,072 / 0,024 / 1,026 / 2,048 / 3,072 / 0,026 / 2,048 / 3,072 / 2,048 / 3,072 / 0,026 / 2,048 / 3,072 / 3,072 / 2,048 / 3,072 /	
hardware	Communicatio Frequency ran, Channel (cente Data transfer ri- Access mett Authenticatii Security ³ WPS LED Interface Network IF Inage Resolution ¹⁹ H.264 JPEG Audio Comm Audio Comm Audio Mode Authenticatic	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transesion Type oression on for Audio e	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 p: 6 - 54 Mbps IEEE802.11 p: 6 - 54 Mbps IEEE802.11 b: 1 – 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wreless (% release status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 6 H.264 : 1280 x 960 / VGA (640 x 48 JPEG: 1.280 x 720 / 640 x 360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4.096 / 8, 192 kbps LOW / NORMAL / FINE 1 fps – 30 fps UNICAST / MULTICAST 10 steps 0.1 fps – 30 fps UNICAST / MULTICAST 10 steps 0.726 (ADPCM) 32 kbps / 16 kb OFF / Mic Line) input / Audio output / Inter Level 1 only / Level 2 higher / All u 64 / 128 / 256 / 384 / 512 / 768 / 1.024.), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / cos, G.711 64 kbps active (Half duplex) / Interactive (Full duple sers 2,048 / 4,096 / 8,192 kbps / Unlimited	
hardware	Communicatio Frequency ran, Channel (cente Data transfer rr Access mett Authenticati Security' ⁵ WPS LED Interface Network IF Image Resolution ¹⁶ H.264 JPEG Audio Comm Audio Mode Authenticati	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transesion Type oression on for Audio e	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 b: 1 – 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wireless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 (H.264: 1.280 × 780 / 464 × 48 JPEG: 1.280 × 720 / 640 × 360 / 32 JPEG: 1.280 × 720 / 640 × 360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4.096 / A.192 kbps LOW / NORMAL / FINE 1 fps – 30 fps PULI / PUSH G.726 (ADPCM) 32 kbps / 16 kb) OFF //Mic Line jnpt / Audio output / Inter Level 1 only / Level 2 higher / A1u 64 / 128 / 256 / 384 / 512 / 768 / 4.026 / A.192 kbps DOFF //Mic Line jnput / Audio output / Inter Level 1 only / Level 2 higher / A1u 64 / 128 / 256 / 384 / 512 / 768 / 4.00PF / Mic Line Jnpt / Audio output / Inter Level 1 only / Level 2 higher / A1u 64 / 128 / 256 / 384 / 512 / 768 / 1.247 Method Normal A A A A A A A A A A A A A A A A A A A), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps 0) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / 0, 1,024 / 1,536 / 2,048 / 3,072 / 0, 1,024 / 1,536 / 2,048 / 3,072 / 0,024 / 1,036 / 2,192 kbps / Unlimited	
hardware	Communicatio Frequency ran, Channel (cente Data transfer ri- Access mett Authenticatii Security ³ WPS LED Interface Network IF Inage Resolution ¹⁹ H.264 JPEG Audio Comm Audio Comm Audio Mode Authenticatic	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transesion Type oression on for Audio e	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 g: 6 – 54 Mbps IEEE802.11 b: 1 – 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wreless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 6 H.264: 1,280 x 960 / VGA (640 x 48 JPEG: 1,280 x 720 / 640 x 360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4,096 / 8,192 kbps LOW / NORMAL / FINE 1 fps – 30 fps UNICAST / MULTICAST 10 steps 0.1 fps – 30 fps UNICAST / MULTICAST 10 steps 0.1 fps – 30 fps VLL / PUSH 6.726 (ADPCM) 32 kbps / 16 kb OFF / Mic Line) input / Audio udput / Inter Level 1 only / Level 2 higher / All u 64 / 128 / 256 / 384 / 512 / 768 / 1024.), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fp 0) / QVGA (320 x 240), up to 30 fp 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / 0, 1,024 / 1,536 / 2,048 / 3,072 / 0, 1,024 / 1,536 / 2,048 / 3,072 / 0,024 / 1,036 / 2,192 kbps / Unlimited	
Wireless hardware Network	Communicatio Frequency ran, Channel (cente Data transfer ri Access mett Authenticati Security ³ WPS LED Interface Network IF Inga Resolution ¹⁹ H.264 JPEG Audio Comm Audio Mode Authenticatic Total Bit Ratu Supported F	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transesion Type oression on for Audio e	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 p: 6 – 54 Mbps IEEE802.11 b: 1 – 11 Mbps IInfrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wreless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 C Hz64: 1,280 x 960 / VGA (640 x 48 H.264: 1,280 x 960 / VGA (640 x 48 H.264: 1,280 x 720 / 640 x 360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4,096 / 8,192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 0.726 (ADPCM) 32 kbps / 16 kb) OFF / Mic (Line) input / Audio output / Inter Level 10 nty / 28 / J84 / 12 / 1768 / 4/128 / 26 / 384 / 512 / 768 / 4.096 / 8,192 kbps 0.01 fps - 30 fps PULL / PUSH 0.726 (ADPCM) 32 kbps / 16 kb) OFF / Mic (Line) input / Audio output / Inter Level 10 nty / 28 / J84 / 194 / 104 /), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / ps, G.711 64 kbps active (Half duplex) / Interactive (Full duple sers active (Half duplex) / Interactive (Full duple RTP, RTP/RTCP, FTP, SMTP, DHCP, DNC, DNC, DNC, SMTP, SMTP, SMTP, SMTP, SMTP, DHCP, FMP, SMTP, DHCP, DNC, SMTP, DHCP, DNC, SMTP, SMTP	
hardware	Communicatio Frequency ran, Channel (cente Data transfer rr. Access mett Authenticatii Security' ⁵ WPS LED Interface Network IF Image Resolution ⁶ H.264 JPEG Audio Comg Audio Mode Authenticatic Total Bit Ratt Supported F	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type Image Quality Refresh Interval framsmission Type procession procession Protocol	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 p: 6.5 - 72.2 Mbps IEEE802.11 p: 6.5 - 72.2 Mbps IEEE802.11 p: 6 - 54 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button methoc Wireless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 c 4.264 : 1,280 × 960 / VGA (640 × 44 JPEG: 1,280 × 960 / VGA (540 × 48 JPEG: 1,280 × 960 / VGA (540 × 48 JPEG: 1,280 × 960 / VGA (540 × 48 JPEG: 1,280 × 720 / 640 × 360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / J0XGAST / MULTICAST 10 steps 0.1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 90 SP 0.1 fps - 90 SP 0.1 fps / 20 SH G.726 (ADPCM) 32 kbps / 16 kbp OFF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / All u 64 / 128 / 256 / 384 / 512 / 768 / 1024 IP4: TCPIP, UDPIP, HTTP, HTTP, RTP, RTP, STP.), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / ps, G.711 64 kbps active (Half duplex) / Interactive (Full duple sers active (Half duplex) / Interactive (Full duple RTP, RTP/RTCP, FTP, SMTP, DHCP, DNC, DNC, DNC, SMTP, SMTP, SMTP, SMTP, SMTP, DHCP, FMP, SMTP, DHCP, DNC, SMTP, DHCP, DNC, SMTP, SMTP	
hardware	Communicatio Frequency ran, Channel (cente Data transfer rr. Access mett Authenticatii Security' ⁵ WPS LED Interface Network IF Image Resolution ⁶ H.264 JPEG Audio Comg Audio Mode Authenticatic Total Bit Ratt Supported F	ge/ rf requency) ate ⁻⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality, Refresh Interval Irransmission Type Image Quality, Refresh Interval ransmission Type pression on for Audio e Protocol	2.412 GHz - 2.462 GHz (1 – 11ch) IEEE802.11 n: 6.5 – 72.2 Mbps IEEE802.11 p: 6 – 54 Mbps IEEE802.11 b: 1 – 11 Mbps IInfrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wreless (wireless status display) WIRELESS button (for setting up 10Base-T / 100Base-TX, RJ-45 C Hz64: 1,280 x 960 / VGA (640 x 48 H.264: 1,280 x 960 / VGA (640 x 48 H.264: 1,280 x 720 / 640 x 360 / 32 Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4,096 / 8,192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH 0.726 (ADPCM) 32 kbps / 16 kb) OFF / Mic (Line) input / Audio output / Inter Level 10 nty / 28 / J84 / 12 / 1768 / 4/128 / 26 / 384 / 512 / 768 / 4.096 / 8,192 kbps 0.01 fps - 30 fps PULL / PUSH 0.726 (ADPCM) 32 kbps / 16 kb) OFF / Mic (Line) input / Audio output / Inter Level 10 nty / 28 / J84 / 194 / 104 /), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps 0) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / 2,048 / 4,096 / 8,192 kbps / Unlimited sers 2(2,048 / 4,096 / 8,192 kbps / Unlimited F, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS xeriodic transmission	
hardware	Communicatio Frequency ran, Channel (cente Data transfer rr. Access mett Authenticatii Security' ⁵ WPS LED Interface Network IF Image Resolution ⁶ H.264 JPEG Audio Comg Audio Mode Authenticatic Total Bit Ratt Supported F	ge/ rf requency) ate ¹⁴ hod on method Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Transmission Typ	2.412 GHz - 2.462 GHz (1 - 11ch) IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 n: 6.5 - 72.2 Mbps IEEE802.11 b: 1 - 11 Mbps Infrastructure mode Open System WPAWPA2-PSK (TKIP/AES) WEP (64 bit/128 bit) PBC method (push button method Wrieless (wireless status display) WIFIELESS button (for setting up 10Base-T / 10DBase-TX, RJ-45 (H.264: 1,280 × 960 / VGA (640 × 48 JPEG: 1,280 × 720 / 640 × 360 / 32 Constant bitrate / Best effort 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 64 / 128 / 256 / 384 / 512 / 768 / 4.096 / A,192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (J3P4/TSI / 768 / 12 / 768 / 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kb) (PF/ Mic Line) mpt / Audio output / Inter Level 1 only / Level 2 higher / Ali u 64 / 128 / 256 / 384 / 512 / 768 / 12 / 768 / 10 steps DNS, NTP, SNMP, UPPIP, HTP, HTPS, RTP, SN PA4 TCD/IP, UDPIP, HTP, HTPS, RTP, SN DNS, NTP, SNMP, UPPI, GMP, IGMP, GMP, APR Alarm image transmission, FTP f), PIN method (PIN code method) WPS with the PBC method) connector (female) 0) / QVGA (320 x 240), up to 30 fps 0) / QVGA (320 x 240), up to 30 fps 0 x 180, up to 30 fps 0 x 180, up to 30 fps 30 fps 1,024 / 1,536 / 2,048 / 3,072 / code (fall duplex) / Interactive (Full duple sers 2,048 / 4,096 / 8,192 kbps / Unlimited TP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, APF RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS vork conditions)	

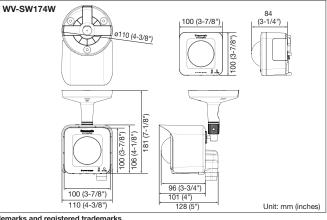
TV System			NTSC	PAL				
Alarm	Alarm S	ource	VMD, Command alarm					
	Alarm Actions Alarm Log Schedule		E-mail notification, Indication on browser,					
			FTP image transfer, Panasonic protocol output					
			1,000 logs					
			VMD					
Input/ Output	t/ Output Monitor Output (for adjustment)		VBS: 1.0 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				
	Microph	one/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: Approx. –10 dBV					
	Audio Output External I/O Terminals		ø3.5 mm stereo mini jack (monaural output),Output impedance: Approx. 560 Ω, Line level					
			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)				
			Wireless : FCC Part15C	Wireless : EN300 328				
	Power Source	e and Power Consumption	12V DC , 510 mA					
	Ambient Operating Temperature Ambient Operating Humidity Water and Dust Resistance Dimensions Mass (approx.) Finish		-20 °C ~ +50 °C (-4 °F ~ 122 °F)					
			Less than 90 % (no condensation)					
			Camera: IP55 (IEC60529) 18					
			100 mm (W) x 100 mm (H) x 84 mm(D) (3-47/50" x 3-47/50" (H) x 3-5/16")					
			(excluding projection)					
			Main body 370 g (0.82 lbs)					
			Main body: PC/ABS resin, silver					
1			Dome section: Clear polycarbonate resin					
*1 Converte	Converted value *2 Refer to "Notes on Windows Vista® / Windows® 7" on the provided CD-ROM							

1 Converted value "2 Refer to "Notes on Windows Vista" / Windows" " 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 " or Alicrosoft® Windows Vista".
 *4 The actual line speed may be different depending on the network environment and the wireless devices connected. 5 Depending on the wireless access point (wireless router) used, connections may not be possible between the camera and the wireless. When connecting with 802.11n, select WPA-PSK(AES) or WPA2-PSK(AES) for security.
 *6 Transmission for 2 streams can be individually set in the same compression method.
 *7 For further information about compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.htm)].
 *8 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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