Panasonic ideas for life

Pan-tilting Network Camera WV-ST165 WV-ST162



HD / 1,280 x 960 H.264 Pan-tilting Network Camera (WV-ST165) SVGA / 800 x 600 H.264 Pan-tilting Network Camera (WV-ST162)

Key Features

- 720p HD images up to 30 fps (WV-ST165)
- 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-ST162)
- 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-ST165)
- Full frame (Up to 30 fps) transmission at SVGA (800 x 600) image size (WV-ST162)
- 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 receiving audio from the cameras on a PC and transmitting audio from the PC to the cameras is available.
- 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

Installation Guide1 pc.	Flexible Stand1 pc.
• CD-ROM*11 pc.	SD Card Cover1 pc.
Code label*21 pc.	Power cable plug1 pc.

*1 The CD-ROM contains the operating instructions and different kinds of tool software programs. *2 This label may be required for network management. The network administrator shall retain the code label.

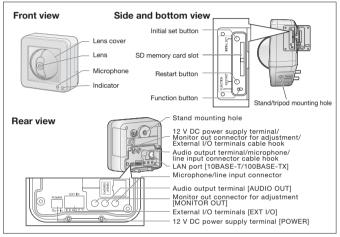
Specifications

Camera	Image Ori		NTSC PAL	
1	Image Senso		1/4 type MOS Sensor	
	Effective Pix		Approx. 1.3 megapixels	
	Scanning Mo		Progressive	
	Scanning An		3.52 mm (H) x 2.64 mm (V) (7/50" (H) × 1/10" (V))	
	Minimum IIIu	imination	Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))	
			Color: 0.038 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain:On(High)) "1	
	White Balance		BW: 0.5 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))	
			BW: 0.031 lx (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)	
	Light Control		Indoor scene (50 Hz / 60 Hz) / ELC	
	Shutter Spee		ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s),	
	onution opeo	u	ELC (1/100 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),	
	Wide Dynamic Range Face Wide Dynamic range Adaptive Black Stretch AGC Electronic Sensitivity UP Day & Night(electrical) Dynamic Range		ELC (1/100 s), ELC (1/120 s), ELC (1/200 s), ELC (1/100 s), ELC (1/100 s), ELC (1/200 s), ELC (1/100 s), ELC (1	
			ON / OFF	
			ON / OFF ON (HIGH) / ON (MID) / ON (LOW) / OFF	
			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)	
	Digital Noise	Reduction	HIGH / LOW	
	Video Motion Detection Privacy Zone Camera Title (OSD)		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)	
l	Angular Field of View Maximum Aperture Ratio Focusing Range Panning Range		Horizontal: 85 °, Vertical: 68 °	
l				
			0.5 m ~ ∞	
Pan and Till			-47.5°- +47.5°	
	Panning Speed		Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s	
l	Tilting Range		-45° to +10°	
l	Tilting Speed		Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s	
l		eset Positions	64	
	PTZ Position Display		ON / OFF	
	Self Return Map Shot		10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min	
			Preset map-shot	
Browser GUI	Camera Con	trol	Brightness, AUX ON / OFF	
	Display Mod	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 Clock Display Alarm Control One Shot Capture Audio		Up to 20 alphanumeric characters	
			Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)	
			Reset	
			A still picture will be displayed on a newly opened window.	
			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.	
			Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the	
			recording format is set to JPEG.) error logs	
			Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3	
			Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),	
			Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3	
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector (female)	
	Image Resolution *4	Aspect ratio: [4 : 3]	WV-ST165:	
			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-ST162:	
			H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps	
1				
		Annak No. 140 1	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
		Aspect ratio: [16 : 9]	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165:	
		Aspect ratio: [16 : 9]	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
		Aspect ratio: [16 : 9]	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps	
		Aspect ratio: [16 : 9]	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162:	
		Aspect ratio: [16 : 9]	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps	
		Aspect ratio: [16 : 9]	JPE6: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPE6: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps	
	H.264		JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H,264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H,264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps	
	H.264	Transmission Mode	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort	
	H.264	Transmission Mode Frame Rate	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps	
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	H.264	Transmission Mode Frame Rate Bit Rate/Client	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 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	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 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	
	H.264	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H,264 : 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H,264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps G / 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	JPE6: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPE6: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPE6: 640 × 360 / 320 × 180, up to 30 fps Constant birrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 324 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192 kbps LOW / NORMAL / FINIE 1 fps - 30 fps UNICAST / MULTICAST	
	H.264 JPEG	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 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	
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	JPEG	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant birrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps G4 / 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 Audio Comp	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Refresh Interval Transmission Type ression	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H-264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H-264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 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 / NORIMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	JPEG Audio Comp Audio Mode	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type ression	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 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 / 5 p = 30 fps UNICAST / MULTICAST 10 steps 0.1 fps = 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic [ine] input / Audio output / Interactive (Full duplex) / Interactive (Full duplex)	
	JPEG Audio Comp Audio Mode Authenticatio	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type ression Type ression n for Audio	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps LOW / NORMAL / FINE LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio autput / Interactive (Full duplex)	
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	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Refresh Interval Transmission Type resistion n for Audio	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps G / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,086 / 8,192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps G.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G7F / Mic Linei Input / Audio output / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 4,066 / 8,192 kbps / Unimited Pet CPI/P, UDPI/P, HTP, HTPS, RTP, FTP, SMTP, SMP, DHC?Pet, MLD, IOM, ARP	
	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate Supported P	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Refresh Interval Transmission Type resistion n for Audio	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 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 / NORIMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic [Line] input / Audio output / Interactive (Full duplex / Interactive (Full duplex / Interactive (Full duplex / Interactive (Full duplex / Interactive Full duplex / Interactive (Full duplex / Interactive Full duplex / Interactive (Full duplex / Interactive (Full duplex / Interactive Full Chapter / AU users 64 / 128 / 256 / 345 / 102 / 78 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unimited IPA: TCPIP, UDPIP, HTTP, HTTPS, RTP, RTP, RTP, RTP, SMTP, DHCP, DNS, MTP, SMMP, UPAP, GM, PUPA, GM, P	
	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate Supported P FTP Client	Tarsmission Mode Frame Rate Bit Rate/Client Image Quality Refersh Interval Tarsmission Type Refersh Interval Tarsmission Type ression n for Audio Protocol	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 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 PULL / PUSH 67.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF //Mic [Ine] ingut / Audio autput / 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 / Unimittel I%: COPIN_ UDIPIN_HTT, HTTPs, RTP, RTP, SMTP, DMS, NTP, SMMP, DHCPA, UNL, DMR, AMP IP4* TCPIP, UDPIP, HTTP, HTTPs, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RTP	
	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate Supported P FTP Client No. of Simulta	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Refresh Interval Transmission Type ression n for Audio Percesh Interval Transmission Type ression n for Audio Percent Rate Rate Rate Rate Rate Percent Rate Rate Rate Rate Rate Percent Rate	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps Gold + 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,086 / 8,192 kbps LOW / NORMAL / FINE 1 fps - 30 fps UNICAST / MULTICAST 10 steps G.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G7F / Mic Linei Jingut / Audio utput / Interactive (Full duplet / Interactive (F	
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	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate Supported P FTP Client No. of Simulta	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Refresh Interval Transmission Type ression n for Audio Percesh Interval Transmission Type ression n for Audio Percent Rate Rate Rate Rate Rate Percent Rate Rate Rate Rate Rate Percent Rate	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps G4 / 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 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 onl y / Level 2 higher / All users G4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Fes (TOPI, UDPIH FTH FTRS, FTP, SNTP, DNS, PS, MP, PCH-6, MD, CMA, MP Pv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DNC, MD, SM, MP Pv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP, RTP, RSP, ND, NC, MC, MD, CMA, MP Parami charastic ransmission Up to 14 users (Depends on network conditions) Manufactured by Panasonic SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB	
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	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate Supported P FTP Client No. of Simulta	Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Refresh Interval Transmission Type ression n for Audio Percesh Interval Transmission Type ression n for Audio Percent Rate Rate Rate Rate Rate Percent Rate Rate Rate Rate Rate Percent Rate	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG: 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps G4 / 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 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 onl y / Level 2 higher / All users G4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Fes (TOPI, UDPIH FTH FTRS, FTP, SNTP, DNS, PS, MP, PCH-6, MD, CMA, MP Pv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DNC, MD, SM, MP Pv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP, RTP, RSP, ND, NC, MC, MD, CMA, MP Parami charastic ransmission Up to 14 users (Depends on network conditions) Manufactured by Panasonic SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB	
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	JPEG Audio Comp Audio Mode Authenticatio Total Bit Rate Supported F FTP Client No. of Simulta SDHC/SD Memo	Tarsmission Mode Frame Rate Bit Rate/Client Image Quality, Refresh Interval Imarsmission Type Refresh Interval Refresh Interval Refresh Interval rorotocol Interval Sectors rotocol Interval Sectors y Card (Option)	JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-ST165: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps WV-ST162: H.264: 640 × 360 / 320 × 180, up to 30 fps Gonstant bitrate / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps G4 / 128 / 256 / 344 / 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 G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic [Line] input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) E4 / 128 / 256 / 344 / 512 / 768 / 1,024 / 4,096 / 8, 192 kbps / UNICAST 10 steps 0.1 fps ~ 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic [Line] input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 344 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8, 192 kbps / UNIImted Pie CTOPIP, UDPIP, HTTP, HTTP, RTP, RTP, RTP, RTP, RTP, RTP, RTP,	

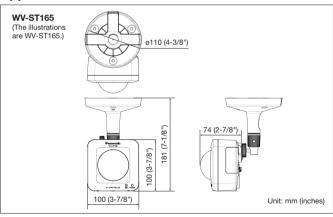
TV System			NTSC	PAL
Alarm	Alarm Source		VMD, Command alarm	
	Alarm Actions		SDHC/SD memory recording, E-mail notification, Indication on browser,	
			FTP image transfer, Panasonic protocol output	
	Alarm Log		With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs	
	Schedule		VMD	
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 powe	r type, Supply voltage: 3.3 V ±0.5 V
		For line input	Input level: Approx. –10 dBV	
	Audio Compression		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		ALARM IN 3/ AUX OUT, GND, 12 V DC	
General	I Safety/EMC Standard		UL (UL60950-1), FCC (Part15 ClassA),	CE, IEC60950-1
			C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)
			DOC (ICES003 ClassA)	
Power Source		e and Power Consumption	PoE (IEEE802.3af compliant), 12	V DC
			PoE: 130 mA (Class 2 device), 12 V DC: 430 mA	
	Ambient O	perating Temperature	0 °C ~ +40 °C (32 °F ~ 104 °F)	
	Ambient (Operating Humidity	Less than 90 % (no condensation)	
	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 (approx.)		orox.)	Main body 345 g (0.76 lbs.)	
	Finish		Main body: PC/ABS resin, sail white	
			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® 7 or 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.

Part Names and Functions



Appearance



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

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http://panasonic.net/security/ Printed in Japan (2A-088L)



