Panasonic ideas for life

HD Network Camera WV-SP305



HD/1,280 x 960 H.264 Network Camera

Key Features

- 720p HD images up to 30 fps
- Newly developed 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.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Simple Day/Night function: 0.3 lx (Color), 0.2 lx (B/W) at F1.4
- VIQS (Variable Image Quality on Specified area) technology allows the designated area to retain higher image guality while the excluded area will have a decreased image guality, which enables to use lower image file size and bit rate.
- · Focus Assist ensures easy installation.
- 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 / Indoor / ELC / Fixed electronic shutter Outdoor / Indoor: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. 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.
- VMD (Video Motion Detector) 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 is supplied to work with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- 2x extra zoom at VGA resolution
- 2x, 4x digital zoom controlled by browser
- Camera title display: Up to 20 alphanumeric characters on the browser, Up to 20 alphanumeric characters embedded in the image

- Alarm sources including 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic protocol output.
- · Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- 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/MPEG-4 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.
- Alarm log, Manual REC log, FTP error log saved in the SDHC/SD memory card is displayed on the browser GUI and can be downloaded to the client PC. Playback or Image data download through the log is also available.
- Internet mode: H.264/MPEG-4 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- · Analog Monitor output for easier installation
- ONVIF compliant model

Standard Accessories

- CD-ROM*1... Safety Wire Lug for Wall....1 pc. Installation Guide1 pc. • Wire Lug Fixing Screws (M2.5 x 8) Code Label*2 1 pc. The followings are for installation. Power Cord Plug 1 pc.
- Safety Wire Plate for Ceiling...... 1 pc.
-2 pcs. (incl. 1 spare)

....1 pc

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

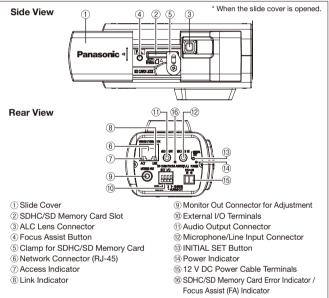
Specifications

TV System Camera						
Camera			NTSC PAL			
	Image Sensor		1/3 type MOS Sensor			
	Effective Pixels		Approx. 1.3 megapixel			
	Scanning Mode		Progressive scan			
	Scanning Area		4.8 mm (H) x 3.6 mm (V) {3/16 inches (H) x 5/32 inches (V)}			
	Minimum Illumination		Color: 0.3 lx, B/W: 0.2 lx at F1.4 (Shutter: 1/30 s, AGC: High),			
			Color: 0.019 lx, B/W: 0.013 lx at F1.4 (Shutter: 16/30 s, AGC: High)			
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)			
	Light Control Mode		Outdoor : Automatic integration of ALC and ELC			
			Indoor [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s)			
			Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s)			
			ELC: (up to 1/10,000 s)			
	Shutter Speed		Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100,			
	Shutter Speed					
			1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000			
	Wide Dynamic Range		ON / OFF			
	Face Wide Dynamic Range					
	Adaptive Black Stretch		ON / OFF (Only at Wide Dynamic Range: 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))			
	Simple Day/Night Mode					
	Digital Noise Reduction		High / Low			
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps			
	Privacy Zone		Up to 2 zones, Gray			
	VIQS					
			ON / OFF			
	Camera Title (OSD)		Up to 20 alphanumeric characters			
	Focus Adjustment		Focus Assist			
Browser	Camera Control		Brightness, AUX ON / OFF			
GUI	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.			
	Digital Zoom		1x, 2x, 4x controlled by browser GUI			
	Camera Title		Up to 20 alphanumeric characters			
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Auto / 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					
	OD Marrier Data Davida d		Audio Output: ON / OFF Volume adjustment: Low / Middle / High			
	SD Memory Data Download		Still or motion Images recorded in the SDHC/SD memory card can be downloaded.			
	GUI/Setup Menu Language		English, Italian, French, German, Spanish, Russian, Chinese, Japanese			
	System Log		Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the			
			recording format is set to JPEG.) error logs			
	Supported	OS	Microsoft [®] Windows [®] 7 Professional 64 bit/32 bit,			
			Microsoft [®] Windows Vista [®] Business SP1 32 bit,			
			Microsoft [®] Windows [®] XP Professional SP3			
			The language of the OS must be same as selected GUI language.			
	Supported	Browser	Windows [®] Internet Explorer [®] 9.0 (32 bit),			
	Supported Browser					
			Windows [®] Internet Explorer [®] 8.0 (32 bit)			
			Windows [®] Internet Explorer [®] 8.0 (32 bit),			
			Windows® Internet Explorer® 7.0 (32 bit),			
			Windows [®] Internet Explorer [®] 7.0 (32 bit), Microsoft [®] Internet Explorer [®] 6.0 SP3			
Network	Network IF		Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector			
Network	Network IF Image	Aspect ratio:	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps			
Network	Network IF Image Resolution	Aspect ratio:	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-7 / 100Base-TX, RJ-45 connector H.264: 1280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps			
Network	Network IF Image	Aspect ratio: [4:3]	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps			
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Network	Network IF Image Resolution	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9]	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps 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			
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Network	Network IF Image Resolution *1 *2	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9]	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps 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			
Network	Network IF Image Resolution *1 *2 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps 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 Constant bitrate / Framerate priority / Best effort			
Network	Network IF Image Resolution *1 *2 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps 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 Constant bitrate / Framerate priority / Best effort 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps			
Network	Network IF Image Resolution *1 *2 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps 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 Constant bitrate / Framerate priority / 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 /			
Network	Network IF Image Resolution *1 *2 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-7 / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps DFEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only			
Network	Network IF Image Resolution *1 *2 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-7 / 100Base-TX, RJ-45 connector H.264: 1280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE			
Network	Network IF Image Resolution *1 *2 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 760 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 380 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s			
Network	Network IF Image Resolution 11'2 H.264/ MPEG-4 1	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / k096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST			
Network	Network IF Image Resolution *1 *2 H.264/	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps DFEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.23 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps			
Network	Network IF Image Resolution '1'2 H.264/ MPEG-4 '1 JPEG	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH			
Network	Network IF Image Resolution 112 H.264/ MPEG-4 1 JPEG Audio Com	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type pression	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 380 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps			
Network	Network IF Image Resolution 11'2 H.264/ MPEG-4 1 JPEG Audio Com Audio Mod	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression e	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps 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)			
Network	Network IF Image Resolution 11'2 H.264/ MPEG-4 1 JPEG Audio Com Audio Mod	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type pression	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 380 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps			
Network	Network IF Image Resolution 11'2 H.264/ MPEG-4 1 JPEG Audio Com Audio Mod	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Refresh Interval Transmission Type Image Quality Transmission Type procession le	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-7 / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps DPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic [Line] input / Audio output / Interactive (Full duplex) Level 1 only / Level 2 higher / All users			
Network	Network IF Image Resolution '1'2 H.264/ MPEG-4 '1 JPEG Audio Com Audio Mod Audio Mod Total Bit Ra	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality Transmission Type pression le tion for Audio ate	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Gonstant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Fall duples) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited			
Network	Network IF Image Resolution 11'2 H.264/ MPEG-4 1 JPEG Audio Com Audio Mod Authenticat	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality Transmission Type pression le tion for Audio ate	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Gonstant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mc (Line) input / Audio output / Interactive (Full duple) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 3,095 / kps / Unlimited IPV6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP,			
Network	Network IF Image Resolution '1'2 H.264/ MPEG-4 '1 JPEG Audio Com Audio Mod Audio Mod Total Bit Ra	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality Transmission Type pression le tion for Audio ate	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 380 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps 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 4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 0,496 / 8,192 kbps / Unlimited 14/128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 10 / 10 / 1,024 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 164 / 128 / 256 / 10 / 10 / 1,024 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 169c: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6			
Network	Network IF Image Resolution '1'2 H.264/ MPEG-4 '1 JPEG Audio Com Audio Mod Audio Mod Total Bit Ra	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality Transmission Type pression le tion for Audio ate	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps 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 64 / 128 / 256 / 384 / 121 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, OHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP,			
Network	Network IF Image Resolution '1 '2 H.264/ MPEG-4 '1 JPEG Audio Com Audio Mod Audio Mod Audio Mod Audio Mod	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality Transmission Type pression le tion for Audio ate	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-7 / 100Base-TX, RJ-45 connector H.264: 1280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF /Mic (Line) input / Audio output / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 266 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited 1Pv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6			
Network	Network IF Image Resolution '1'2 H.264/ MPEG-4 '1 JPEG Audio Com Audio Mod Audio Mod Total Bit Ra	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality Transmission Type pression le tion for Audio ate	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-7 / 100Base-TX, RJ-45 connector H.264: 1280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic Linei input / Audio output / 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 / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTP, RTP, RTP/RTCP, FTP, SMTP, DHCPv6, DNS, DNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive			
Network	Network IF Image Resolution '1 '2 H.264/ MPEG-4 '1 JPEG Audio Com Audio Mod Audio Mod Audio Mod Audio Mod	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Iransmission Type Image Quality Transmission Type pression le tion for Audio ate	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-T / 100Base-TX, RJ-45 connector H.264: 1.280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / OVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 380 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic transmission is failed,			
Network	Network IF Image Resolution 11'2 H.264/ MPEG-4 1 JPEG Audio Com Audio Mod Authenticat Total Bit R: Supported	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Quality Transmission Type Image Quality Transmission Type Image Quality Transmission Type Propression Ie Protocol	Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3 10Base-7 / 100Base-TX, RJ-45 connector H.264: 1280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate priority / 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 / 8096* kbps / Unlimited * H.264 mode only LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic Linei input / Audio output / 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 / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTP, RTP, RTP/RTCP, FTP, SMTP, DHCPv6, DNS, DNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transfer, Periodic image transfer, Active/Passive			

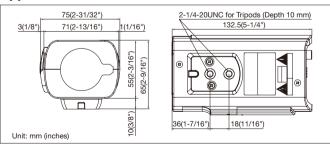
TV System		NTSC	PAL	
Network	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon		
		network failure Compatible SD (SDHC) card: Panasonic 256 MB		
		512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*,	16 GB*, 32 GB* model * SDHC card	
	Face Detection	ON / OFF (with XML notification)		
	Cellular Phone Compatibility	JPEG image		
	Mobile Terminal Compatibility*3	iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android™ mobile terminals		
Alarm	Alarm Source	1 terminal input, VMD, Command alarm		
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output,		
		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	Alarm / VMD / Access permission / H.264 recording		
Input/	Monitor Output	1.0 V [p-p] / 75 Ω,	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 microphone; Plug-in power type)		
		Supply voltage: 2.5 V \pm 0.5 V input impedance: approx. 2 k Ω		
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	ALARM IN, ALARM OUT, AUX OUT		
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024)	
		C-UL (CAN/CSA C22.2 No.60065),		
		DOC (ICES003 ClassA)		
	Power Source and Consumption	12 V DC: 270 mA, PoE (IEEE 802.3af): 3.4 W (Class 2 device)		
	Ambient Operating	–10 °C ~ +50 °C (14 °F ~ 122 °F),		
	Temperature/Humidity	Less than 90 % (no condensation)		
	Dimensions	75 mm (W) x 65 mm (H) x 132.5mm (L) (2-31/32" (W) x 2-9/16" (H) x 5-1/4" (L))		
	Mass (approx.)	390 g (0.86 lbs.)		

compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.html).

Part Names and Functions



Appearance



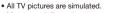
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Important
- Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

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- All product pictures are NTSC models.



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