Panasonic

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 quality while the excluded area will have a decreased image quality, 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
- 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
- Fog compensation

Standard Accessories

- - Wire Lug Fixing Screws (M2.5 x 8)
 2 pcs. (incl. 1 spare)
 - *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	1		NTSC PAL		
Camera	Image Sen	sor	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		
			Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120		
			ELC: (up to 1/10,000 s)		
	Shutter Speed		Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100,		
	Wide Dynamic Range		1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
			ON / OFF		
	Face Wide Dynamic Range		ON / OFF (Only at Wide Dynamic Range: ON)		
	Adaptive Black Stretch		ON / OFF (Only at Wide Dynamic Range: OFF)		
	AGC		ON (LOW, MID, HIGH) / OFF		
	Electronic Sensitivity UP				
	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 Co	ontrol	Brightness, AUX ON / OFF		
GUI	Display Mo	ode	Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua		
	Display Wode		screens or 16 split screen (JPEG only). 20 characters camera title availab		
	Digital Zoom		1x, 2x, 4x controlled by browser GUI		
	Digital Zoom		Up to 20 alphanumeric characters		
	Camera Title				
	Clock Display		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Auto / Manu		
	Alarm Control		Reset		
	One Shot (Capture	A still picture will be displayed on a newly opened window.		
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High		
			Audio Output: ON / OFF Volume adjustment: Low / Middle / Hig		
	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, Japanes		
	System Log		Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the		
	Gystern Log		recording format is set to JPEG.) error logs		
	Supported OS		Microsoft® Windows® 8, Microsoft® Windows® 7,		
	Capportoa		Microsoft® Windows Vista®,		
			Microsoft® Windows® XP SP3		
	0	D			
	Supported Browser		Windows® Internet Explorer® 10.0 (32 bit),		
			Windows® Internet Explorer® 9.0 (32 bit),		
			Windows® Internet Explorer® 8.0 (32 bit),		
			Windows® Internet Explorer® 7.0 (32 bit),		
			Microsoft® Internet Explorer® 6.0 SP3		
Network	Network IF	:	10Base-T / 100Base-TX, RJ-45 connector		
	Image	Aspect ratio:	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fp		
	Resolution		MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
	*1 *2	[JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fp		
		Aspect ratio	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		
	11.064/	[16 : 9]			
	H.264/		Constant bitrate / Framerate priority / Best effort / Advanced VBI		
	MPEG-4	Mode			
	*1	Frame Rate	1/3/5/7.5/10/12/15/20/30 fps		
		Bit Rate/	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072		
		Client	4,096 / 8096* kbps / Unlimited * H.264 mode only		
		Image Quality	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		
	JPEG	Image Quality			
			PULL / PUSH		
			G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	Audio Compression				
	Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplet output / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
		tion for Audio	Level 1 only / Level 2 higher / All users		
	Authentica				
	Authentica	ate	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimit IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP,		
	Authentica Total Bit R	ate			
	Authentica Total Bit R	ate			
	Authentica Total Bit R	ate	IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTF		
	Authentica Total Bit R Supported	ate Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTF, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARI		
	Authentica Total Bit R	ate Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTF DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARI Alarm image transfer, Periodic image transfer, Active/Passive		
	Authentica Total Bit R Supported	ate Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv6 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTF DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARI		

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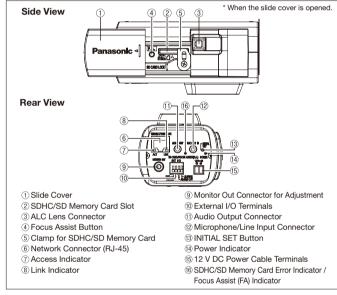
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- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

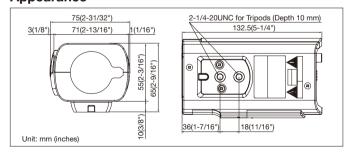
TV System	1	NTSC	PAL		
Network	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)			
(Option)		JPEG recording: Manual REC / Alarm REC (Post) / Backup upon			
		network failure Compatible SD (SDHC) card: Panasonic 256 MB,			
		512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card			
	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	e Alarm / VMD / Access permission / H.264 re			
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 ±0.5 V input impedance: approx. 2 kΩ			
	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.)			

- *1 H.264 and MPEG-4 are alternative.
 *2 [4 : 3] and [16 : 9] are alternative.
 *3 For further information about compatible devices, refer to our website
- (http://security.panasonic.com/pss/security/support/info.html).

Part Names and Functions



Appearance



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

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