

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
- · 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.2 pcs. (incl. 1 spare) The followings are for installation. Power Cord Plug......1 pc.
- Safety Wire Plate for Ceiling...... 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.

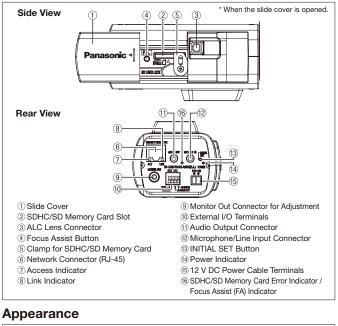
Specifications

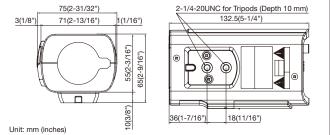
TV System			NTSC PAL	
Camera	Image Sensor		1/3 type MOS Sensor	
	Effective Pixels		Approx. 1.3 megapixel	
	Scanning Mode		Progressive scan	
	Scanning Area		4.8 mm (H) x 3.6 mm (V) {3/16 inches (H) x 5/32 inches (V)}	
	Minimum Illumination		Color: 0.3 lx, B/W: 0.2 lx at F1.4 (Shutter: 1/30 s, AGC: High),	
			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)	
	Shutter Speed		ELC: (up to 1/10,000 s) 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		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 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),	
			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		H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps	
	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 fps	
	1	Acrost reti-		
			H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps	
	11.00.1/	[16:9]	JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps	
	H.264/	Transmission	Constant bitrate / Framerate priority / Best effort	
	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	
		Refresh Interval	0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s	
		Transmission Type	UNICAST / MULTICAST	
	JPEG	Image Quality	10 steps	
		Transmission Type	PULL / PUSH	
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps	
	Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)	
	Authentication for Audio		Level 1 only / Level 2 higher / All users	
			Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited	
	Total Bit Rate			
	Supported 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,	
			SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP	
	FTP Client		Alarm image transfer, Periodic image transfer, Active/Passive	
			selectable (When the FTP periodic transmission is failed,	
			backup on an optional SDHC/SD memory card is available.)	
	No. of Simu	Itaneous Users	Up to 14 users (Depends on network conditions)	

TV Syster	n	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.)		

*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://panasonic.net/pss/security/support/info.html).

Part Names and Functions





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- 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 TV pictures are simulated.

· Masses and dimensions are approximate. Specifications are subject to change without notice.

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