# Panasonic ideas for life

## HD Network Camera WV-SP305

NTSC WV-SP305 (12 V DC or PoE)

PAL WV-SP305 (12 V DC or PoE)

#### **Preliminary**



### **HD H.264 Network Camera**

#### **Key Features**

- 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<sup>®</sup>", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 720 / 30p (HD) H.264 stream in 16: 9 aspect ratio
- 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 lux (Color), 0.2 lux (B/W) at F1.4
- 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 detect the position of human face, 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, 4x digital zoom controlled by browser
- Camera title display: Up to 20 alphanumeric characters on the browser, Up to 16 alphanumeric characters embedded in the image
- Alarm sources including 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SD/SDHC 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.
- SD/SDHC 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 SD/SDHC 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 GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC)
   Installation required except for English
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation

#### **Standard Accessories**

• CD-ROM	The followings are for installation.  • Power Cable Plug
Code Label 1 pc.	<ul> <li>Safety Wire Plate for Ceiling</li></ul>
	Wire Lug Fixing Screws (M2.5 x 8)
	2 pcs. (incl. a spare screw)

#### **Optional Accessory**

1/3 inch High Resolution 2x Varifocal Lens
WV-LZA62/2
(2.8 ~ 6 mm)

F1.4 (Wide) F2.1 (Tele)



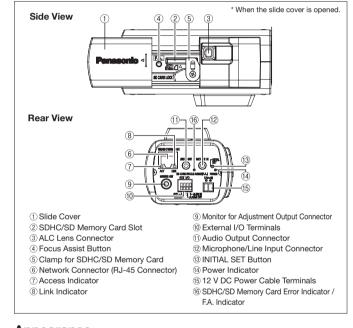
#### **Specifications**

TV Systen	1		NTSC PAL		
Camera	Image Sen	sor	1/3 inch MOS Sensor		
	Effective P	ixels	1.3 megapixel		
	Scanning I	Mode	Progressive scan		
	Scanning /	Area	4.8 mm (H) x 3.6 mm (V)		
	Minimum I	llumination	Color: 0.3 lux, B/W: 0.2 lux at F1.4 (Shutter: 1/30 s, AGC: High),		
			Color: 0.019 lux, B/W: 0.013 lux at F1.4 (Shutter: 16/30 s, AGC: High)		
	White Balance Light Control Mode		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light Cont	roi wode	Outdoor: Automatic integration of ALC and ELC		
			Indoor [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 sec.)		
			Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 sec.)		
			ELC: (up to 1/10,000 sec.)		
	Shutter Sp	eed	Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100,		
			1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
	Wide Dyna	mic Range	ON / OFF		
		Dynamic Range			
	_	Black Stretch	ON / OFF (Only at Wide Dynamic Range: OFF)		
		BIACK STRETCH			
	AGC		ON (LOW, MID, HIGH) / OFF		
	Electronic Sensitivity UP Simple Day/Night Mode Digital Noise Reduction		AUTO / OFF		
	Video Mot	ion Detection	-		
	Privacy Zo		Up to 2 zones, Gray		
	Camera Ti		Up to 16 alphanumeric characters		
	Focus Adi				
_	,		Focus Assist		
Browser	Camera Co		Brightness, AUX ON / OFF		
GUI	Display Mo	ode	Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua		
			screens or 16 split screen (JPEG only). 20 characters camera title available		
	Digital Zoo	m	1x, 2x, 4x Controlled by browser GUI		
	Camera Ti	tle	Up to 20 alphanumeric characters		
	Clock Disp		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		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 SD/SDHC memory card can be downloaded		
	GUI/Setup Menu Language				
			(Installation required for French) Spanish, German, Russian		
			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	System Log Supported OS		(Installation required except for English		
			Up to 100 (Internal), Up to 4,000 (SD/SDHC memory when the		
			recording format is set to JPEG.) error logs		
			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® 8.0 32 bit (Microsoft® Windows® 7 64 bit/32 bit)		
			Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business SP1 32 bit		
			Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Windows® XP Professional 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	[4:3]	MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
	*1 *2	1 -	JPEG: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
		Aspect ratio	H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps		
		[16:9]	JPEG: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps		
	H.264/				
			Constant bitrate / Framerate priority		
	MPEG-4	Mode			
	*1	Frame Rate	1/3/5/7.5/10/15/20/ 1/3/5/7.5/10/12		
			30 fps (PAL model only) / 15 / 20 / 30 fp		
		Bit Rate/	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072		
		Client	4,096 / 8,192* kbps / Unlimited * H.264 mode only		
		Image Quality			
			0.1 fps ~ 30 fps		
	1000		UNICAST / MULTICAST		
	JPEG	Image Quality	10 steps		
	Transmission Type		PULL / PUSH		
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps		
	Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex		
	Authentication for Audio				
	Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
	Supported Protocol		IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP		
			IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP,		
			SMTP, DHCP, DNS, DDNS, NTP, SNMP		
	FTP Client		Alarm image transfer, Periodic image transfer, Active/Passive		
	PTP Gliefit				
			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)		
	1				

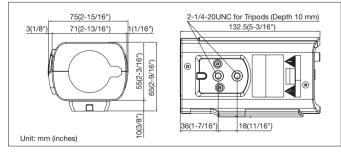
TV Systen	n	NTSC	PA		
Network	SDHC/SD Memory Card H.264 recording: Manual REC / Alarm REC (Pre/Post)				
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon			
		network failure Compatible SD (SDHC) card: Panasonic 256 MB,			
		512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB* model * SDHC card			
	Face Detection	ON / OFF (with XML notification)			
Alarm	Alarm Source	1 terminal input, VMD, Command alarm			
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output,			
		ransfer, Panasonic protocol output			
	Alarm Log	With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs Alarm / VMD / Access permission			
	Schedule				
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 / DAY/NIGHT 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			
	Ambient Operating	-10 °C ~ +50 °C (14 °F ~ 122 °F),			
	Temperature/Humidity	90 % or less (without condensation)			
	Dimensions	75 mm (W) x 65 mm (H) x 132.5mm (L) (2-15/16" (W) x 2-9/16" (H) x 5-3/16" (L))			
	Weight (approx.)	390 g (0.86 lbs.)			

\*1 H.264 and MPEG-4 are alternative. \*2 [4:3] and [16:9] are alternative.

#### **Part Names and Functions**



#### **Appearance**



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- UniPhier is a registered trademark of Panasonic Corporation.
   "Super Dynamic", "SDII", "SDII", "SD5!", "SD5Link", "i-PRO" and "i-PRO SmartHD" logos are trademarks or registered trademarks

- 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
- All TV pictures are simulated.
- Weights 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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