

# HD Network Camera WV-SP306



## HD/1,280 x 960 H.264 True Day/Night Network Camera with ABF (Auto Back Focus)

#### **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 Day/Night function: 0.3 lux (Color), 0.05 lux (B/W) at F1.4
- ABF (Auto Back Focus) ensures easy installation and stable focus in both color and B/W modes.
- 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, 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 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 GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC)
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation

#### **Standard Accessories**

CD-ROM*1	Safety     Wire L
The followings are for installation.  Power Cord Plug	*1 The CD- (PDFs) a *2 This lab

- \*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.

#### Optional Accessory

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

(2.8 ~ 6 mm) F1.4 (Wide) F2.1 (Tele)



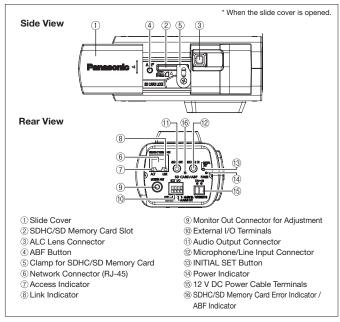
#### **Specifications**

Speci	ficatio	ns			
TV System	1		NTSC	PAL	
Camera	Image Sen	sor	6 mm (1/3 inch) MOS Sensor		
	Effective P	ixels	Approx. 1.3 megapixel		
	Scanning N	Mode	Progressive scan 4.8 mm (H) x 3.6 mm (V) Color: 0.3 lux, B/W: 0.05 lux at F1.4 (Shutter: 1/30 s, AGC: High), Color: 0.019 lux, B/W: 0.003 lux at F1.4 (Shutter: 16/30 s, AGC: High) AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K) Outdoor: Automatic integration of ALC and ELC		
	Scanning A	Area			
	Minimum I	llumination			
	White Bala	ince			
	Light Cont	rol Mode			
			Indoor [50 Hz]: Automatic integration		
			Indoor [60 Hz]: Automatic integration	n 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	ımic Range	ON / OFF		
	Face Wide D	Dynamic Range	ON / OFF (Only at Wide Dynami	c Range: ON)	
	Adaptive B	Black Stretch	ON / OFF (Only at Wide Dynamic Range: OFF)		
	AGC Electronic Sensitivity UP Black and White Mode		ON (LOW, MID, HIGH ) / OFF		
			Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control		
	Digital Nois	se Reduction	High / Low		
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy Zone		Up to 2 zones, Gray		
	Camera Title (OSD)		Up to 16 alphanumeric characters		
	Back Focu	s Adjustment	ABF/MANUAL, ABF mode upon CL/BW switching: AUTO / PRESET / FIX		
Browser	Camera Co	ontrol	Brightness, AUX ON / OFF		
GUI	Display Mo	ode	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 browse	r GUI	
	Camera Tit	tle	Up to 20 alphanumeric characte	ers	
	Clock Disp	olay	Time: 12H/24H, Date: 5 formats on	the browser, Summer time (Manual)	
	Alarm Con	trol	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 SDI		
	GUI/Setup N	/lenu Language	English, French	English, French, Italian,	
	System Log Supported OS		(Installation required for French)	Spanish, German, Russian	
			,	(Installation required except for English)	
			Up to 100 (Internal), Up to 4,000		
			recording format is set to JPEG		
			Microsoft® Windows® 7 Profess	·	
			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),		
	Сарроноа	D. 0 11 CO.	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	<u>`</u>	
INCLINOIR	Image		H.264: 1,280 × 960 / VGA (640 × 48		
	Resolution		MPEG-4: VGA (640 × 480) / QV		
	*1 *2	[+.0]	JPEG: 1,280 × 960 / VGA (640 × 48		
	-	Aspect ratio:	H.264: 1,280 × 720 / 640 × 360	, , , , , ,	
		[16:9]	JPEG: 1,280 × 720 / 640 × 360		
	H.264/	Transmission	Constant bitrate / Framerate pri		
	MPEG-4	Mode	Constant bitrate / Framerate pri	only	
	IVIFEG=4		1 / 2 / 5 / 7 5 / 10 / 15 / 20 /	1/2/5/75/10/10/15/	
	'	Frame Rate	1/3/5/7.5/10/15/20/	1/3/5/7.5/10/12/15/	
		D'' D /	30 fps	20 / 30 fps	
		Bit Rate/	64 / 128 / 256 / 384 / 512 / 768		
		Client	4,096 / 8,192* kbps / Unlimited	* H.264 mode only	
		Image Quality	LOW / NORMAL / FINE		
			0.1 fps ~ 30 fps		
			UNICAST / MULTICAST		
	JPEG	Image Quality	10 steps		
	Transmission Type				
	Audio Compression Audio Mode Authentication for Audio Total Bit Rate Supported Protocol  FTP Client		G.726 (ADPCM) 32 kbps / 16 kbps		
				active (Half duplex) / Interactive (Full duplex)	
				/ 2,048 / 4,096 / 8,192 kbps / Unlimited	
			IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP		
			IPv4: TCP/IP, UDP/IP, HTTP, R	TSP, RTP, RTP/RTCP, FTP,	
			SMTP, DHCP, DNS, DDNS, NTI		
			Alarm image transfer, Periodic is	mage transfer, Active/Passive	
			selectable (When the FTP period		
			backup on an optional SDHC/S		
	No. of Simu	Itaneous Users	Up to 14 users (Depends on net		
				•	

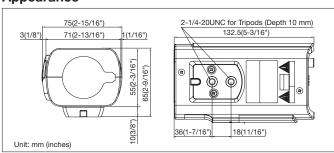
TV System		NTSC	PAL		
Network	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)			
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon			
		network failure Compatible SD (SDHC) card: Panasonic 256 MB,			
		512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card			
	Face Detection	ON / OFF (with XML notification)			
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			
	Schedule	Alarm / VMD / Access permission			
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			
		$\label{eq:constraint} \begin{tabular}{ll} \b$			
	Audio Output				
	External I/O Terminals	ARM 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: 350 mA, PoE (IEEE 802.3af): 4.4 W (Class 2 device)			
	Ambient Operating	-10 °C ~ +50 °C (14 °F ~ 122 °F),			
	Temperature/Humidity	perature/Humidity 90 % or less (without condensation)			
Dimensions 75 mm (W) x 65 mm (H) x 1			(2-15/16" (W) x 2-9/16" (H) x 5-3/16" (L))		
	Weight (approx.)	410 g (0.9 lbs.)			

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

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



#### **Appearance**



- Trademarks and registered trademarks

   Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
- 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 of Panasonic Corporation.

#### 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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