

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 lx (Color), 0.05 lx (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)
 Installation required except for English
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation

Standard Accessories

• CD-ROM*11 pc.	•
Installation Guide1 pc.	•
• Code Label*2 1 pc.	
The followings are for installation.	*1
Power Cord Plug1 pc.	
Safety Wire Plate for Ceiling 1 pc.	*2

• Safety Wire Lug for Wall......1 pc.
• 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

Optional Accessory

1/3 type High Resolution 2x Varifocal Lens **WV-LZA62/2**

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



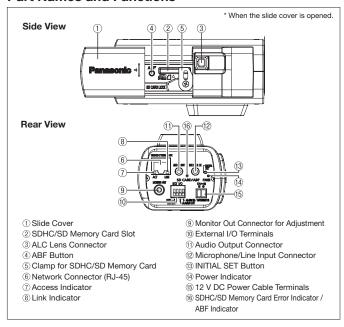
Specifications

TV System	ficatio		NTSC	PAL
Camera		eor	1/3 type MOS Sensor	FAL
Calliera	Image Sensor			
	Effective P		Approx. 1.3 megapixel	
	Scanning I		Progressive scan	
	Scanning /		4.8 mm (H) x 3.6 mm (V)	
	Minimum I	llumination	Color: 0.3 lx, B/W: 0.05 lx at F1.4 (Shutter: 1/30 s, AGC: High),	
			Color: 0.019 lx, B/W: 0.003 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 Cont	rol 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	3/120, 2/100, 2/120, 1/100,
	Onutier Opeed		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			
	Black and White Mode		Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control	
	Digital Noise 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 Focus Adjustment			
Browser			. 5	
GUI	Display Mo		-	
	Display Wil	,	Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
	Disital Zasas		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 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	HC/SD memory card can be downloaded.
	GUI/Setup Menu Language		English, French	English, French, Italian,
			(Installation required for French)	
			(installation required for French)	(Installation required except for English)
	System Log		Us to 100 (Istornal) Us to 100	
	System Log		Up to 100 (Internal), Up to 4,00	
			recording format is set to JPEG	·
	Supported OS Supported Browser		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.	
			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 (M	icrosoft® Windows® XP Professional SP3)
Network	Network IF		10Base-T / 100Base-TX, RJ-45	
	Image Aspect ratio:			30) / QVGA (320 × 240), up to 30 fps
	Resolution		MPEG-4: VGA (640 × 480) / QV	
	*1 *2	[4.0]		30) / QVGA (320 × 240), up to 30 fps
	' -	A		
			H.264: 1,280 × 720 / 640 × 360	
		[16 : 9]	JPEG: 1,280 × 720 / 640 × 360	
	H.264/	Transmission	Constant bitrate / Framerate pr	iority
	MPEG-4	Mode		
	*1	Frame Rate	1/3/5/7.5/10/15/20/	1/3/5/7.5/10/12/15/
			30 fps	20 / 30 fps
		Bit Rate/	64 / 128 / 256 / 384 / 512 / 768	/ 1,024 / 1,536 / 2,048 / 3,072 /
		Client	4,096 / 8,192* kbps / Unlimited	
		Image Quality	LOW / NORMAL / FINE	, , , , , , , , , , , , , , , , , , ,
		Refresh Interval		
			UNICAST / MULTICAST	
	IDEO			
	JPEG	Image Quality	10 steps	
	Transmission Type			
	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 FTP Client			P, FTP, SMTP, DNS, NTP, SNMP
			IPv4: TCP/IP, UDP/IP, HTTP, F	
			SMTP, DHCP, DNS, DDNS, NT	
			Alarm image transfer, Periodic	
	FTP Client		_	-
	FTP Client		selectable (When the FTP period	dic transmission is failed,
		Itaneous Users	selectable (When the FTP period backup on an optional SDHC/S	dic transmission is failed, D memory card is available.)

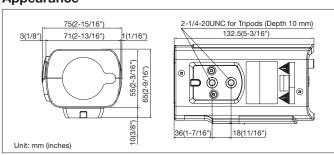
TV Systen	n	NTSC	PAL	
Network	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)		
	(Option) JPEG recording: Manual REC / Alarm REC (Po			
		network failure Compatible SD (SDHC) card: Panasonic 256 MB,		
		512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card		
	Face 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,		
		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		
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 k Ω		
	Audio Output ø3.5 mm stereo mini jack (monaural output		aural 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: 350 mA, PoE (IEEE 802.3af): 4.4 W (Class 2 device)		
	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)		
	Mass (approx.)	410 g (0.9 lbs.)		

^{*1} 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.
- · 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.

DISTRIBUTED BY:

