

Network Camera WV-SP302

Preliminary



VGA/800 x 600 H.264 Network Camera

Key Features

- Super high resolution at VGA/800 x 600 created by 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 VGA/800 x 600 image size
- 640 x 360 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: 0.2 lux (Color), 0.13 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 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

Code Label	
Wire Lug Fixing Screws (M2.5 x 8)	The followings are for installation. • Power Cable Plug

Optional Accessory

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

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

* It is impossible to use lenses without the focus adjustment function or zoom lenses.



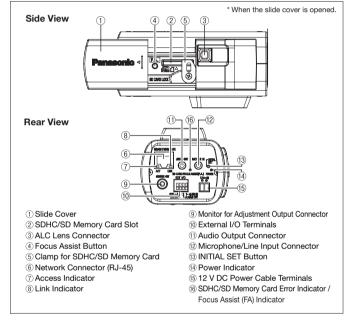
Specifications

Camera	TV System NTSC PAL			FAL	
Camera	Image Sen		1/3 inch MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning N	√lode	Progressive scan		
	Scanning A	Area	4.8 mm (H) x 3.6 mm (V)		
	Minimum I	llumination	Color: 0.2 lux, B/W: 0.13 lux at F1.4 (Shutter: 1/30 s, AGC: High),		
			Color: 0.013 lux, B/W: 0.009 lux at F	1.4 (Shutter: 16/30 s, AGC: High)	
	White Bala	ince	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light Conti		Outdoor: Automatic integration of ALC and ELC		
	Light Conti	oi wode	_		
			Indoor [50 Hz]: Automatic integration		
			Indoor [60 Hz]: Automatic integration	of ALC and ELC (up to 1/120 sec.)	
			ELC: (up to 1/10,000 sec.)		
	Shutter Speed		Fix shutter: OFF (1/30), 3/100, 3/	/120, 2/100, 2/120, 1/100,	
	onattor op	004	1/120, 1/250, 1/500, 1/1,000, 1/2		
	MC-I- Down			2,000, 1/4,000, 1/10,000	
	Wide Dynamic Range		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 Electronic Sensitivity UP Simple Day/Night Mode Digital Noise Reduction Video Motion Detection		ON (LOW, MID, HIGH) / OFF	,	
				0. (0/30 5), 10. (10/30 5), 10. (10/30 5))	
			High / Low		
			4 areas, Sensitivity: 15 steps, De	etection size: 10 steps	
	Privacy Zo	ne	Up to 2 zones, Gray		
	Camera Tit			re	
			Up to 16 alphanumeric characters		
	Focus Adju		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 Quad	
			screens or 16 split screen (JPEG only).		
	Digital Zoo	m	1x, 2x, 4x controlled by browser		
	Camera Title Clock Display Alarm Control		Up to 20 alphanumeric characte		
			Time: 12H/24H, Date: 5 formats on t	he browser, Summer time (Manual	
			Reset		
	One Shot Capture		A still picture will be displayed o	n a newly opened window	
			Mic (Line) Input: ON / OFF Volume		
	Audio				
			Audio Output: ON / OFF Volume		
	SD Memory	Data Download	Still or motion Images recorded in the SDF	IC/SD memory card can be downloaded	
	GUI/Setup Menu Language		English, French	English, French, Italian,	
			(Installation required for French)	_	
				(Installation required except for English)	
	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 Profess	ional 64 bit/32 bit,	
			Microsoft® Windows Vista® Business SP1 32 bit,		
			Microsoft® Windows® XP Profes		
	Cupported Draway		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 (Microsol	ft® Windows Vista® Business SP1 32 bit)	
			Microsoft® Internet Evalerer® 6.0 CD2 (Mic		
Natur	Note:	,	Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Interne	crosoft® Windows® XP Professional SP3	
Network	Network IF		10Base-T / 100Base-TX, RJ-45	crosoft® Windows® XP Professional SP3 connector	
Network	Network IF		10Base-T / 100Base-TX, RJ-45 H.264: 800 × 600 / VGA (640 × 480)	crosoft® Windows® XP Professional SP3 connector I / QVGA (320 × 240), up to 30 fps	
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Network	Image Resolution 11 2 H.264/ MPEG-4 11 JPEG Audio Com Audio Mod Authentica Total Bit Ri	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression de tion for Audio ate	10Base-T / 100Base-TX, RJ-45 H.264: 800 x 600 / VGA (640 x 480) MPEG-4: VGA (640 x 480) / QVG (940 x 480) H.264: 640 x 360 / 320 x 180, up JPEG: 800 x 600 / VGA (640 x 480) H.264: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 150	proceste Windows® XP Professional SP3 connector // QVGA (320 × 240), up to 30 fps GA (320 × 240), up to 30 fps GA (320 × 240), up to 30 fps for to 30 fps fo	
Network	Image Resolution 11 2 H.264/ MPEG-4 11 JPEG Audio Com Audio Mod Authentica Total Bit R: Supported	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Guality Transmission Type Image Type Im	10Base-T / 100Base-TX, RJ-45 H.264: 800 x 600 / VGA (640 x 480) MPEG-4: VGA (640 x 480) / QV GA (640 x 480) H.264: 640 x 360 / 320 x 180, up JPEG: 800 x 600 / VGA (640 x 480) H.264: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 x	procoft® Windows® XP Professional SP3 connector	
Network	Image Resolution 11 2 H.264/ MPEG-4 11 JPEG Audio Com Audio Mod Authentica Total Bit Ri	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Guality Transmission Type Image Type Im	10Base-T / 100Base-TX, RJ-45 H.264: 800 x 600 / VGA (640 x 480) MPEG-4: VGA (640 x 480) / QVG (940 x 480) H.264: 640 x 360 / 320 x 180, up JPEG: 800 x 600 / VGA (640 x 480) H.264: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 360 / 320 x 180, up JPEG: 640 x 150	procoft® Windows® XP Professional SP3 connector	
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Network	Image Resolution 11 2 H.264/ MPEG-4 11 JPEG Audio Com Audio Mod Authentica Total Bit R: Supported	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Guality Transmission Type Image Type Im	10Base-T / 100Base-TX, RJ-45 H.264: 800 × 600 / VGA (640 × 480) MPEG-4: VGA (640 × 480) / QVC JPEG: 800 × 600 / VGA (640 × 480) H.264: 640 × 360 / 320 × 180, up Constant bitrate / Framerate pric 1 / 3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 4,096 / 8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kb 0FF / Mic (Line) input / Judio output / Intera Level 1 only / Level 2 higher / All 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / IPv6: TCP/IP, UDP/IP, HTTP, RTF IPv4: TCP/IP, UDP/IP, HTTP, RTF Alarm image transfer, Periodic ir selectable (When the FTP period	ps corosoft® Windows® XP Professional SP3 connector	
Network	Image Resolution '1'2 H.264/ MPEG-4 '1 JPEG Audio Com Audio Mod Authentica Total Bit R: Supported	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/ Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Guality Transmission Type Image Guality Transmission Type Image Type Im	10Base-T / 100Base-TX, RJ-45 H.264: 800 x 600 / VGA (640 x 480) MPEG-4: VGA (640 x 480) / QV MPEG-4: VGA (640 x 480) H.264: 640 x 360 / 320 x 180, up JPEG: 800 x 600 / VGA (640 x 480) H.264: 640 x 360 / 320 x 180, up Constant bitrate / Framerate pric 1 / 3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 4, 096 / 8,192" kbps / Unlimited LOW / NORMAL / FINE 0.1 fps - 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kb 0FF / Mic (Line) input / Audio output / Intera Level 1 only / Level 2 higher / / L	ps crosoft® Windows® XP Professional SP connector (7 QVGA (320 × 240), up to 30 fps A) (320 × 340), u	

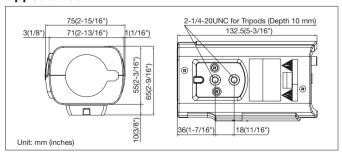
TV Systen	n	NTSC	PAL	
Network	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon		
		network failure Compatible SD (SDHC) card: Panasonic 256 MB,		
		512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC c		
	Face Detection	ON / OFF (with XML notification)		
Alarm	Alarm Source	1 terminal input, VMD, Commar	nd alarm	
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output Indication on browser, FTP image transfer, Panasonic protocol output With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs		
	Alarm Log			
	Schedule	Alarm / VMD / Access permission	on	
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		aural 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 80	2.3af): 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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- 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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