# **Panasonic**

## **Network Camera WV-SP302**



### SVGA/800 x 600 H.264 Network Camera

### **Key Features**

- Super high resolution at SVGA/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 SVGA/800 x 600 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: 0.2 lx (Color), 0.13 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
- 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
- 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
- Fog compensation

### **Standard Accessories**

CD-ROM*1
The followings are for installation.  Power Cord Plug

- · Safety Wire Lug for Wall....
- 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.

### Specifications

TV System	ficatio		NTSC	PAL		
Camera		sor	1/3 type MOS Sensor	FAL		
Jamera			Approx. 1.3 megapixel			
	Effective Pixels					
	Scanning Mode		Progressive scan 4.8 mm (H) x 3.6 mm (V) {3/16 inches (H) x 5/32 inches (V)}			
	Scanning Area					
	Minimum Illumination		Color: 0.2 lx, B/W: 0.13 lx at F1.4 (Shutter: 1/30 s, AGC: High),			
	White Balance		Color: 0.013 lx, B/W: 0.009 lx 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)			
	Light Control Mode		Outdoor: Automatic integration of ALC and ELC			
	Ligiti Cont	TOT IVIOGE	-			
			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 Sp	eed	Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100,			
	Onution op	eeu	1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000			
	Wido Dyna	mic Range	ON / OFF			
	Face Wide Dynamic Range		ON / OFF (Only at Wide Dynamic Range: OFF)			
	Adaptive Black Stretch		ON / OFF (Only at Wide Dynamic Hange: OFF) ON (LOW, MID, HIGH) / OFF			
	AGC					
	Electronic Sensitivity UP					
	Simple Day/Night Mode		AUTO / OFF			
	Digital Noise Reduction					
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps			
	Privacy Zone		Up to 2 zones, Gray			
	VIQS		ON / OFF			
	Camera Tit		Up to 20 alphanumeric characters			
	Focus Adjustment		Focus Assist			
Browser	Camera Control		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 Zoo	m	1x, 2x, 4x controlled by browser GUI			
	Camera Title		Up to 20 alphanumeric characters			
	Clock Disp	lay		browser, Summer time (Auto / Manual		
	Alarm Control		Reset			
	One Shot (		A still picture will be displayed	on a newly opened window.		
	Audio			e adjustment: Low / Middle / High		
	Audio					
	SD Memory	Data Download	Audio Output: ON / OFF Volume adjustment: Low / Middle / High			
			-			
	GUI/Setup Menu Language		English, Italian, French, German, Spanish, Russian, Chinese, Japanese Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the			
	System Lo	g				
		00	recording format is set to JPEG	·		
	Supported	OS	Microsoft® Windows® 8, Micros	soft® Windows® 7,		
			Microsoft® Windows Vista®,			
			Microsoft® Windows® XP SP3			
	Supported Browser		Windows® Internet Explorer®10			
			Windows® Internet Explorer® 9.0 (32 bit),			
			Windows® Internet Explorer® 8.0 (32 bit),			
			Windows® Internet Explorer® 7			
			Microsoft® Internet Explorer® 6	.0 SP3		
Network	Network IF		10Base-T / 100Base-TX, RJ-45			
	Image	Aspect ratio:				
	Resolution	[4:3]	MPEG-4: VGA (640 × 480) / QV	'GA (320 × 240), up to 30 fps		
	*1 *2		JPEG: 800 × 600 / VGA (640 × 48	0) / QVGA (320 × 240), up to 30 fp:		
		Aspect ratio:	H.264: 640 × 360 / 320 × 180, t	up to 30 fps		
		[16:9]	JPEG: 640 × 360 / 320 × 180, t	ip to 30 fps		
	H.264/	Transmission	Constant bitrate / Framerate price	ority / Best effort / Advanced VBR		
	MPEG-4	Mode				
	*1	Frame Rate	1/3/5/7.5/10/12/15/20	/ 30 fps		
		Bit Rate/		/ 1,024 / 1,536 / 2,048 / 3,072		
		Client	4,096 kbps / Unlimited			
		Image Quality	LOW / NORMAL / FINE			
		_ ,	0.2 s / 0.25 s / 0.33 s / 0.5 s / 1	s/2s/3s/4s/5s		
			UNICAST / MULTICAST			
	JPEG	Image Quality	10 steps			
	-	Transmission Type	PULL / PUSH			
	Audio Com		G.726 (ADPCM) 32 kbps / 16 k	bps. G.711 64 khps		
	Audio Compression Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex			
	Audio Mode Authentication for Audio					
	Total Bit Rate		Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited			
	Supported	Protocol	IPv6: TCP/IP, UDP/IP, HTTP, R			
			SNMP, DHCPv6, ICMPv6			
			IPv4: TCP/IP, UDP/IP, HTTP, RTS			
				SNMP, UPnP, IGMP, ICMP, ARP		
	FTP Client		Alarm image transfer, Periodic	-		
			selectable (When the FTP period	dic transmission is failed,		
	No. of Simultaneous Users		backup on an optional SDHC/S	SD memory card is available.)		
			Up to 14 users (Depends on network conditions)			

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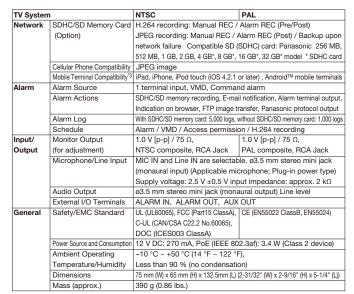
   UniPhier is a registered trademark of Panasonic Corporation.

   "I-PRO SmartHD" logo is trademarks or registered trademarks of Panasonic Corporation.

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Important

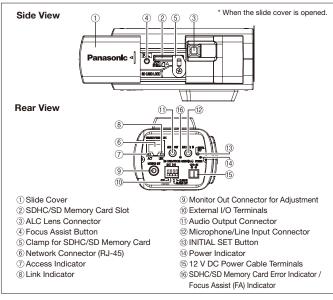
- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.

- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

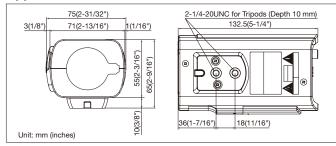


- \*1 H.264 and MPEG-4 are alternative
- 2 [4:3] and [16:9] are alternative.
  3 For further information about compatible devices, refer to our website (http://security.panasonic.com/pss/security/support/info.html).

### **Part Names and Functions**



### **Appearance**



- · 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

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