

HD Network Camera **WV-SP105 Network Camera WV-SP102**



HD/1,280 x 960 H.264 Network Camera with 2x Extra Zoom (WV-SP105) VGA/640 x 480 H.264 Network Camera (WV-SP102)

Key Features

- 720p HD images up to 30 fps (WV-SP105 only)
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor (WV-SP105)
- Newly developed 0.32 Megapixel high sensitivity MOS Sensor (WV-SP102)
- 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 (WV-SP105)
- Full frame (Up to 30 fps) transmission at VGA (640 x 480) image size (WV-SP102)
- 2x extra zoom at VGA resolution (WV-SP105 only)
- 2x, 4x digital zoom controlled by browser
- ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- High sensitivity with Simple Day/Night function: 0.8 lx (Color), 0.4 lx (B/W) at F2.2 (WV-SP105) 2.0 lx (Color), 1.3 lx (B/W) at F2.0 (WV-SP102)
- 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.
- 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 (WV-SP105) Auto (Up to 8x) / OFF (WV-SP102)

 Selectable light control modes: Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time) Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.

ELC (maximum exposure time): The lightning control will be

automatically performed by adjusting shutter speed in the range of ELC.

- 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.
- Camera title display: Up to 20 alphanumeric characters on the browser, Up to 20 alphanumeric characters embedded in the image
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic protocol output.
- 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.
- H.264 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.
- Internet mode: H.264 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.
- ONVIF compliant model

Standard Accessories

Angle Adjustment Cover...... 1 pc.

Safety Wire

CD-ROM ⁺¹ 1 pc. Installation Guide1 pc. Code Label ^{*2} 1 pc.	Washer
The followings are for installation.	*1 The CD-ROM contains the operating instructions
• Power Cord Plug1 pc.	(PDFs) and different kinds of tool software programs.

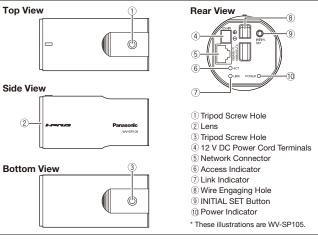
- (PDEs) and different kinds of tool software programs
- *2 This label may be required for network management The network administrator shall retain the code label

Specifications

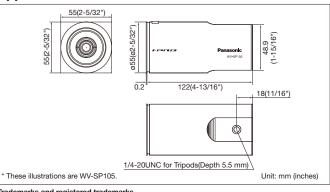
		NTSC PAL		
Image Sen	sor	WV-SP105: 1/3 type MOS Sensor		
		WV-SP102: 1/5 type MOS Sensor		
Effective Pi	ixels	WV-SP105: Approx. 1.3 megapixel		
		WV-SP102: Approx. 0.32 megapixel		
Scanning N	/lode	Progressive scan		
-		WV-SP105: 4.8 mm (H) x 3.6 mm (V)		
		WV-SP102: 2.69 mm (H) x 2.02 mm (V)		
B Aline town and the state		WV-Si 102: 2:05 min (i) x 2:02 min (v)		
Minimum Illumination		Color: 0.8 ix, B/W: 0.4 ix at F2.2 (Shutter: 1/30 s, AGC: High), Color: 0.05 ix, B/W: 0.03 ix at F2.2 (Shutter: 16/30 s, AGC: High) WV-SP102:		
White Balance		Color: 2.0 Ix, B/W: 1.3 Ix at F2.0 (Shutter: 1/30 s, AGC: High), Color: 0.3 Ix, B/W: 0.16 Ix at F2.0 (Shutter: 8/30 s, AGC: High) AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)		
Light Control Mode		Indoor [50 Hz]: Automatic integration of ELC (up to 1/100 s) Indoor [60 Hz]: Automatic integration of ELC (up to 1/120 s) ELC (maximum exposure time):		
		WV-SP105: 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 WV-SP102: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500,		
Adaptive Black Stretch		1/1,000, 1/2,000, 1/4,000, 1/8,000 ON / OFF		
AGC Electronic Sensitivity UP		ON (LOW, MID, HIGH) / OFF WV-SP105:		
		OFF, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s WV-SP102:		
Simple Day/Night Made		OFF, max. 2/30 s, max. 3/30 s, max. 4/30 s, max. 8/30 s		
		AUTO / OFF		
		High / Low		
		4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
		Up to 2 zones, Gray		
		ON / OFF		
		Up to 20 alphanumeric characters		
Zoom Ratio		WV-SP105: 2x with extra zoom (at VGA) WV-SP102: N/A		
		4x (Max. 8x combined with extra zoom at VGA (WV-SP105 only))		
-		WV-SP105: 3.54 mm WV-SP102: 2.00 mm		
Maximum A	Aperture Ratio	WV-SP105: 1 : 2.2 WV-SP102: 1 : 2.0		
Focusing Range		0.5 m ~ ∞		
Angular Field of View		WV-SP105: H: 70.3°, V: 55.4° WV-SP102: H: 66.9°, V: 52.3°		
Display Mo	de	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.		
Camera Title		Up to 20 alphanumeric characters		
		Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Auto / Manual)		
		A still picture will be displayed on a newly opened window.		
		English, Italian, French, German, Spanish, Russian, Chinese,		
		Japanese		
		Up to 100 (Internal)		
		Microsoft® Windows® 7 Professional 64 bit/32 bit.		
Supported OS		Microsoft® Windows Vista® Business SP1 32 bit.		
		Microsoft® Windows® XP Professional SP3		
0 · · ·		The language of the OS must be same as selected GUI language.		
Supported	Browser	Windows® Internet Explorer® 9.0 (32 bit),		
		Windows [®] Internet Explorer [®] 8.0 (32 bit),		
		Windows [®] Internet Explorer [®] 7.0 (32 bit),		
		Microsoft® Internet Explorer® 6.0 SP3		
Network IF		10Base-T / 100Base-TX, RJ-45 connector		
	A			
-	Aspect ratio:	WV-SP105:		
Image Resolution *1	-			
Resolution	-	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
Resolution	[4 : 3]	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
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Resolution *1	[4 : 3] Aspect ratio: [16 : 9]	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP105: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps		
Resolution	[4 : 3] Aspect ratio: [16 : 9] Transmission Priority	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP105: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps Gonstant bitrate / Framerate/ Best effort		
Resolution *1	[4 : 3] Aspect ratio: [16 : 9] Transmission Priority Frame Rate	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): UGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate/ Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps		
Resolution *1	[4 : 3] Aspect ratio: [16 : 9] Transmission Priority Frame Rate Bit Rate/Client	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP105: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate/ Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps / Unlimited * Only for WV-SP105		
Resolution *1	[4 : 3] Aspect ratio: [16 : 9] Transmission Priority Frame Rate Bit Rate/Client Image Quality	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP105: H.264: 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps Gonstant bitrate / Framerate/ Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps / Unimited * Only for WV-SP105 LOW / NORMAL / FINE		
Resolution *1	[4 : 3] Aspect ratio: [16 : 9] Transmission Priority Frame Rate Bit Rate/Client Image Quality Refresh Interval	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps GPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps GPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps GPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps G4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps / Unlimited * Only for WV-SP105 LOW / NORMAL / FINE 0.2 s / 0.25s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s		
Resolution *1	[4 : 3] Aspect ratio: [16 : 9] Transmission Priority Frame Rate Bit Rate/Client Image Quality	H.264: 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 960 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps WV-SP102: H.264: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): VGA (640 × 480) / QVGA (320 × 240), up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 320 × 180, up to 30 fps GV-SP102: H.264: 640 × 360 / 320 × 180, up to 30 fps JPEG (MJPEG): 640 × 360 / 320 × 180, up to 30 fps Constant bitrate / Framerate/ Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192' kbps / Unlimited * Only for WV-SP105 LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s UNICAST / MULTICAST		
	Scanning M Scanning A Minimum II White Bala Light Contr Ight Contr Adaptive B AGC Electronic S Digital Nots Video Moti Privacy Zor ViQS Camera Tit Digital (Elec Focal Leng Maximum A Focusing F Angular Fie Display Mot Camera Tit Clock Disp One Shot C GUI/Setup Language System Loo Supported	Scanning Mode Scanning Area Minimum Illumination White Balance Light Control Mode Light Control Mode Ight Control Mode Simple Day/Night Mode Digital Noise Reduction Video Motion Detection Privacy Zone ViQS Camera Title (OSD) Zoom Ratio Digital Field of View Display Mode Camera Title Clock Display One Shot Capture GUI/Setup Menu		

TV System	้า	NTSC	PAL	
Network	Supported Protocol	I IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMPv		
		IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS,		
FTP Client No. of Simultaneous Users		DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP		
		Alarm image transfer, Periodic image transfer		
		Up to 14 users (Depends on network conditions)		
	Face Detection	ON / OFF (with XML notification)		
	Cellular Phone Compatibility	JPEG image		
	Mobile Terminal Compatibility*2	iPad, iPhone, iPod touch (iOS 4.2.1 or later) , Android™ mobile terminals		
Alarm	Alarm Source	VMD, Command alarm		
	Alarm Actions	E-mail notification, Indication on browser,		
		FTP image transfer, Panasonic protocol output		
	Schedule	VMD/Access permission		
General	Safety/EMC Standard	UL (UL60950), FCC (Part15 ClassA),	CE (EN60950, EN55022 ClassB,	
		C-UL (CAN/CSA C22.2 No.60950),	EN55024), GOST (GOST R 51558)	
		DOC (ICES003 ClassA)		
	Power Source/	WV-SP105:		
	Consumption	12 V DC: approx. 200 mA,		
		PoE: approx. 2.8 W (IEEE802.3af compliant, Class 2 device)		
		WV-SP102:		
		12 V DC: approx. 140 mA,		
		PoE: approx. 2.0 W (IEEE802.3af compliant, Class 2 device)		
	Ambient Operating	0 °C ~ +40 °C (32 °F ~ 104 °F),		
	Temperature/Humidity	90 % or less (without condensation)		
	Dimensions	55 mm (W) x 55 mm (H) x 122 mm (D) (2-5/32" (W) x 2-5/32" (H) x 4-13/16" (D))		
		(excluding connectors/terminals)		
	Mass (approx.)	WV-SP105: 180 g (0.40 lbs.) WV-SP102: 170 g (0.38 lbs.)		
	d [16 : 9] are alternative. tp://panasonic.net/pss/se	*2 For further information about curity/support/info.html).	compatible devices, refer to c	

Part Names and Functions



Appearance



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Important
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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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