Panasonic ideas for life

Super Dynamic Megapixel Vandal Resistant Fixed Dome Network Camera WV-NW502S

Preliminary

NTSC WV-NW502S (12 V DC or PoE)

PAL WV-NW502S (12 V DC or PoE)



Megapixel H.264 Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- 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 (1.3 Megapixel mode)
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Up to 3 Megapixel (2,048 x 1,536) JPEG stream (3 Megapixel mode, JPEG only)
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function: 1.0 lux (Color), 0.08 lux (B/W) at F1.2 (Wide,1.3 Megapixel mode)
- ABF (Auto Back Focus) ensures easy installation and stable focus in both color and B/W modes.
- Adaptive Digital Noise Reduction: Integration of 2D-DNR and 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 detect the position of human face, 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 8 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 with three selectable character sizes embedded in the image
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SD/SDHC 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.
- SD/SDHC Memory card slot for manual recording, alarm recording and backup upon network failure.
- 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 SD/SDHC 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
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- Vandal resistant mechanism for high reliability
- 2.8 ~ 8.0 mm, 2.8x Varifocal Auto Iris lens

Standard Accessories

CD-ROM* 1 pc. Operating Instructions, Basic Manual 1 pc. Label (MAC address) 1 pc.	Mounting Bracket	
The followings are for installation.		
2-pin Power Cable 1 pc. 4-pin Alarm Cable 1 pc. Camera Attachment 1 pc.	* The CD-ROM contains Panasonic IP Setup Software, viewer software *Network Camera View 4*, and Standard Operation Manual/Standard Setup Manual (PDF).	

Optional Accessories



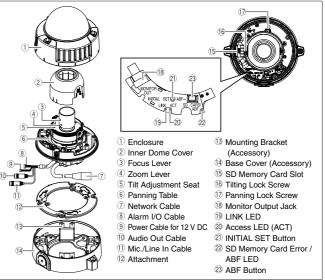
Specifications

Sheci					
TV Systen		•	NTSC PAL		
Camera	Image		1/3 inch interline transfer CCD		
		e Pixels	1,296 (H) x 976 (V) x2		
		ng Mode	Progressive scan		
	<u> </u>	ng Area	4.86 mm (H) x 3.65 mm (V)		
	wiinimu	m Illumination	1. 3 Megapixel mode: Color: 1.0 lux, B/W: 0.08 lux at F1.2 (Shutter: 1/30 s, SD: OFF),		
			Color: 0.06 lux, B/W: 0.005 lux at F1.2 (Shutter: 16/30 s, SD: OFF) 3 Megapixel mode: Color: 2.0 lux, B/W: 0.16 lux at F1.2 (Shutter: 1/30 s),		
			Color: 0.12 lux, B/W: 0.01 lux at F1.2 (Shutter: 1/30 s), Color: 0.12 lux, B/W: 0.01 lux at F1.2 (Shutter: 16/30 s)		
	White F	Poloneo			
	<u> </u>	Balance	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light C	ontrol Mode	Outdoor: Automatic integration of ALC and ELC Indoor: Automatic integration of ALC		
			and ELC (up to 1/100 sec.) ELC: (up to 1/10,000 sec.) Fix shutter: 3/100 fix, 2/100 fix, 1/100 fix, 1/200 fix, 1/10,000 fix, 1/1		
		Dynamic	ON / OFF (1.3 Megapixel mode only)		
	Dynam	ic Range	52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)		
	Adaptiv	e Black Stretch	ON / OFF		
	AGC		ON (LOW, MID, HIGH) / OFF		
	Electro	nic Sensitivity UP	OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))		
	Black a	nd White Mode	Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external control		
	Digital	Noise Reduction	High / Low		
	Video M	Aotion Detection	4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy	Zone	Up to 8 zones, Gray / Mosaic		
	<u> </u>	e Down	ON / OFF		
		nage Stabilizer	ON / OFF		
		a Title (OSD)	Up to 16 alphanumeric characters (3 selectable character sizes)		
		ocus Adjustment			
Lens		cal Length	2.8 mm ~ 8 mm		
		r Field of View	H: 35.0° (Tele) ~ 100° (Wide), V: 26.2° (Tele) ~ 73.5° (Wide)		
	<u> </u>	im Aperture Ratio			
		ng Range	0.3 m ~ ∞		
Browser	-	a Control	Brightness, AUX ON / OFF, Zoom (1x, 2x, 4x)		
GUI	<u> </u>		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
GUI	Display Mode				
	Disital Zasus		screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Digital Zoom Camera Title Clock Display Alarm Control One Shot Capture Audio SD Memory Data Download GUI/Setup Menu Language System Log Supported OS		1x, 2x, 4x Controlled by browser GUI		
			Up to 20 alphanumeric characters		
			Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual)		
			Reset		
			A still picture will be displayed on a newly opened window.		
			Mic (Line) Input: ON / OFF, Audio Output: ON / OFF		
			(Installation required for French) Spanish, German, Russian		
			(Installation required except for English)		
			Up to 100 (Internal), Up to 4,000 (SD memory) error logs		
			Microsoft® Windows Vista® Business 32 bit, Microsoft® Windows® XP Home/Professional SP2		
			The language of the OS must be same as selected GUI language.		
	Supported Browser		Microsoft® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business 32 bit),		
			Microsoft® Internet Explorer® 6.0 SP2 (Microsoft® Windows® XP Home/Professional SP2)		
Network			10Base-T / 100Base-TX, RJ-45 connector		
	Image	Resolution*1	1.3 Megapixel H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			mode: MPEG-4: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			3 Megapixel H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 15 fps		
			mode: MPEG-4: VGA (640 x 480) / QVGA (320 x 240), up to 15 fps		
			JPEG: 2,048 x 1,536 / 1,280 x 960 / VGA (640 x 480), up to 15 fps		
			Constant bit rate / Frame rate priority		
			1 / 3 / 5 / 10 / 15 / 20* / 30* fps * 1.3 Megapixel mode only		
	*1	Max.	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /		
		Bit Rate/Client	4,096 / 8,192* kbps / Unlimited * H.264 mode only		
		Image Quality	LOW / NORMAL / FINE		
		Refresh Interval			
		Transmission Type	UNICAST / MULTICAST		
	JPEG	Image Quality	10 steps		
		Transmission Type	PULL / PUSH		
	Audio 0	Compression	G.726 (ADPCM) 32 kbps / 16 kbps		
	Audio N		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Authentication for Audio				
	Total B	it Rate	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
	Supported Protocol FTP Client		IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS,		
			NTP, SNMP IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP		
			Alarm image transfer, Periodic image transfer, Active/Passive selectable (When the FTP		
			periodic transmission is failed, backup on an optional SD memory card is available.)		
	No. of S	imultaneous Users			
	SD Memory Card (Option)		Manual REC / Alarm REC / Backup upon network failure		
			Compatible SD (SDHC) card: Panasonic SD (SDHC) card: 64 MB, 128 MB,		
			256 MB, 512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card		
Alarm	Alarm S	Source	3 terminal inputs, VMD, Command alarm		
	Alarm L		e 3 terminal inputs, VMD, Command alarm With SD memory card: 4,000 logs, Without SD memory card: 100 logs		
	Lancerine	-~3	1 35onory data. 4,000 logo, without 05 memory cald. 100 logs		

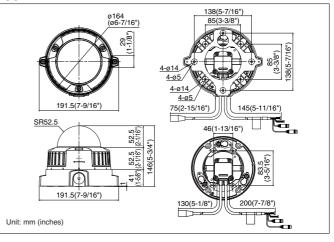
n	NTSC	PAL	
Alarm Actions	SD memory recording, E-mail notification, Alarm terminal output,		
	Indication on browser, FTP image transfer, Panasonic protocol output Alarm / VMD / Access permission		
Schedule			
Monitor Output	1.0 V [P-P] / 75 Ω, NTSC	1.0 V [P-P] / 75 Ω, PAL	
	composite, RCA Jack	composite, RCA Jack	
Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack		
(Cable)	(monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V \pm 0.5 V Input impedance: 3 k $\Omega \pm$ 10 % ø3.5 mm stereo mini jack (monaural output) Line level		
Audio Output (Cable)			
External I/O Terminals	ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT,		
(Cable)	ALARM IN 3 / AUX OUT / EXPOSURE OUT		
Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024),	
	C-UL (CAN/CSA C22.2 No.60065),	GOST (GOST R 51558)	
	DOC (ICES003 ClassA)		
Power Source and	12 V DC: 630 mA, PoE (IEEE 802.3af): 7.6 W -30 °C ~ +50 °C (−22 °F ~ 122 °F) *2, 90 % or less (without condensation)		
Power Consumption			
Ambient Operating			
Temperature/Humidity			
Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
Impact Protection	IEC 60068-2-75 test Eh, 50J		
Dimensions	ø164 mm x 146 mm (H), 191.5 mm (W) (Base Cover)		
	(ø6-7/16" x 5-3/4" (H), 7-9/16" (W) (Base Cover))		
Weight (approx.)	1.7 kg (3.74 lbs.) (with Mounting Bracket)		
nd MPEG-4 are alternative			
	Schedule Monitor Output Microphone/Line Input (Cable) Audio Output (Cable) External I/O Terminals (Cable) Safety/EMC Standard Power Source and Power Consumption Ambient Operating Temperature/Humidity Water and Dust Resistance Impact Protection Dimensions Weight (approx.)	Alarm Actions SD memory recording, E-mail not Indication on browser, FTP image Schedule Alarm / VMD / Access permissis Monitor Output 1.0 V [P-P] / 75 Ω, NTSC composite, RCA Jack Microphone/Line Input (Cable) MIC IN and Line IN are selectat (monaural input) (Applicable min Supply voltage: 2.5 V ± 0.5 V Inp Audio Output (Cable) Audio Output (Cable) 93.5 mm stereo mini jack (mona External I/O Terminats (Cable) ALARM IN 1 / DAY/NIGHT IN, A ALARM IN 3 / AUX OUT / EXPC Safety/EMC Standard UL (UL60065), FCC (Part15 ClassA), C-UL (CANICSA C22.2 No.60065), DOC (ICES003 ClassA) Power Consumption -30 °C - +50 °C (-22 °F - 122 90 % or less (without condensa Water and Dust Resistance IP66, IEC60682-75 test Eh, 50J Dimensions a 164 mm x 146 mm (H), 191.5 (ø6-7/16" x 5-3/4" (H), 7-9/16" (f	

*2 When turning on the power at -10 °C (14 °F) or lower, warming up (at least 1 hour) is required before operation and setting.

Part Names and Functions



Appearance



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 Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

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