

# Super Dynamic Megapixel Vandal Resistant Fixed Dome Network Camera

WV-NW502S

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	Base Cover
The followings are for installation.	• Butyl tape 1 pc.
• 2P Power Cable       1 pc.         • 4P Alarm Cable       1 pc.         • Camera Attachment       1 pc.         • Mount Bracket       1 pc.	*1 The CD-ROM contains Panasonic IP Setup Software, viewer software "Network Camera View 4", and Operation Instructions (PDF). *2 This label may be required for network management. The network administrator shall retain the code label.

#### Optional Accessories

Embedded Ceiling Mount Bracket
WV-Q169

Smoke Dome Cover WV-CW4S

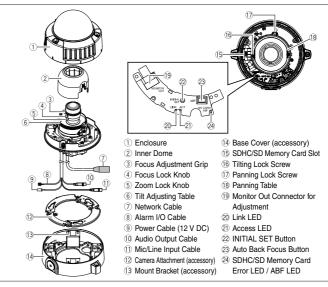
#### **Specifications**

I IIIIaye o	oncor	NTSC	PAL		
Image Sensor 1/3 inch interline transfer CCD  Effective Pixels 1,296 (H) x 976 (V) x2					
		Progressive scan			
Scannin		4.86 mm (H) x 3.65 mm (V)			
Scanning			Shuttor: 1/20 a AGC: High SD: OEE)		
	"				
1		Color: 0.12 lux, B/W: 0.01 lux at F1.2 (Shutter: 16/30 s, AGC: High) AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)			
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Mhita D					
$\overline{}$					
Light Co	ntrol Mode	· ·	•		
Shutter S	Speed	and ELC (up to 1/100 sec.) ELC: (up to 1/10,000 sec.) (ELC: only at Super Dynamic: OFF Fix shutter: 3/100, 2/100, 1/100, 1/250, 1/500, 1/1,000, 1/2,000,			
Super Dynamic		1/4,000, 1/10,000 (Only at Super Dynamic: OFF) ON / OFF (1.3 Megapixel mode only)			
		ON (LOW, MID, HIGH ) / OFF			
<u> </u>	Black Stretch				
Electroni	c 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) Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external contro			
Black an	d White Mode				
Digital N	oise Reduction	-			
Video M	otion Detection	4 areas, Sensitivity: 15 steps, D	etection size: 10 steps		
Privacy 2	Zone	Up to 8 zones, Gray / Mosaic			
Up Side	Down	ON / OFF			
		ON / OFF			
	-	Up to 16 alphanumeric characte	ers (3 selectable character sizes		
-					
		-	· 26 2° (Tele) ~ 73 4° (Wide)		
_			0.2 (1010) - 10.4 (WILE)		
	, Hange		750 4 : 11 5 400		
		Panning Range: ±170° Tilting Range: ±75° Azimuth Range: ±100°			
Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad			
Digital Zoom		1x, 2x, 4x Controlled by browser GUI			
		Up to 20 alphanumeric characters			
Clock Di	splay	Time: 12H / 24H, Date: 5 formats on	the browser, Summer time (Manual)		
Alarm C	ontrol	Reset			
One Sho	t Capture	A still picture will be displayed o	n a newly opened window.		
Audio		Mic (Line) Input: ON / OFF, Aud	io Output: ON / OFF		
SD Memory Data Download		Images recorded in the SD men	nory card can be downloaded.		
GUI/Setup Menu Language		English, French	English, French, Italian,		
			Spanish, German, Russian		
		,	(Installation required except for English		
System	on	Up to 100 (Internal) Up to 4 00			
Support	,u 00	Microsoft® Windows Vista® Business SP1 32 bit, Microsoft® Windows® XP Home Edition.			
Cupport	d Browner	Professional SP3, The language of the OS must be same as selected GUI language			
Support	u biowsei	Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business SP1 32 bil			
NI-4					
_					
	on mode	MPEG-4: VGA (640 x 480) / QV			
*2		JPEG: 1,280 x 960 / VGA (640 x 48			
	3 Megapixel		, , , , , , ,		
	mode	MPEG-4: VGA (640 x 480) / QV	GA (320 x 240), up to 15 fps		
		JPEG: 2,048 x 1,536 / 1,280 x 96			
	Transmission Priority	Constant bit rate / Frame rate	60 / VGA (640 x 480), up to 15 fps		
		Constant bit rate / Frame rate	60 / VGA (640 x 480), up to 15 fps		
MPEG-4	Transmission Priority	Constant bit rate / Frame rate	60 / VGA (640 x 480), up to 15 fps fps * 1.3 Megapixel mode only		
MPEG-4 [1	Transmission Priority Max. Frame Rate	Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* / 30*	fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /		
MPEG-4 [1 *2	Fransmission Priority Max. Frame Rate Max.	Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* / 30* 64 / 128 / 256 / 384 / 512 / 768	fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /		
MPEG-4   1	Transmission Priority Max. Frame Rate Max. Bit Rate/Client	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 64/128/256/384/512/768, 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE	fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /		
MPEG-4     *2	Transmission Priority Max. Frame Rate Max. Bit Rate/Client mage Quality Refresh Interval	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE	fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /		
MPEG-4 I	Transmission Priority Max. Frame Rate Max. Bit Rate/Client mage Quality Refresh Interval	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST	fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /		
MPEG-4 1 *2 I	Transmission Priority Max. Frame Rate Max. Bit Rate/Client mage Quality Refresh Interval Transmission Type mage Quality	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 64/128/256/384/512/768. 4,096/8,192*kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps	fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /		
MPEG-4 I	Fransmission Priority Max. Frame Rate Max. Bit Rate/Client mage Quality Refresh Interval Fransmission Type mage Quality Fransmission Type	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 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	io / VGA (640 x 480), up to 15 fps fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only		
MPEG-4 I	Transmission Priority Max. Frame Rate Max. Bit Rate/Client mage Quality Refresh Interval Transmission Type mage Quality Transmission Type propression	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 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 kl	10 / VGA (640 x 480), up to 15 fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only		
MPEG-4 I *2 I I I I I I I I I I I I I I I I I	iransmission Priority dax. Frame Rate Max.  Bit Rate/Client mage Quality Refresh Interval fransmission Type mage Quality fransmission Type propression ode	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 64/128/256/384/512/768 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 kl OFF/Mic (Line) input / Audio output / Intera	10 / VGA (640 x 480), up to 15 fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only		
MPEG-4 I *2 I I I I I I I I I I I I I I I I I	iransmission Priority Max. Frame Rate Max. Bit Rate/Client mage Quality Refresh Interval fransmission Type mage Quality fransmission Type mage Quality fransmission Dype fransmi	Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* 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 kl 0FF / Mic (Line) input / Audio output / Inter- Level 1 only / Level 2 higher / Au	60 / VGA (640 x 480), up to 15 fps fps * 1.3 Megapixel mode only 11,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only		
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	Illumination 11 Illumination 12 Illumination 1	mode White Balance Light Control Mode Shutter Speed Super Dynamic Dynamic Range Adaptive Black Stretch AGC Electronic Sensitivity UP Black and White Mode Digital Noise Reduction Video Motion Detection Privacy Zone Up Side Down Auto Image Stabilizer Camera Title (OSD) Back Focus Adjustment Vari Focal Length Angular Field of View Maximum Aperture Ratio Focusing Range ilt Camera Control Display Mode Digital Zoom Camera Title Clock Display Alarm Control One Shot Capture Audio SD Memory Data Download GUl/Setup Menu Language System Log Supported OS Supported Browser Network IF Image 1.3 Megapixel	Illumination		

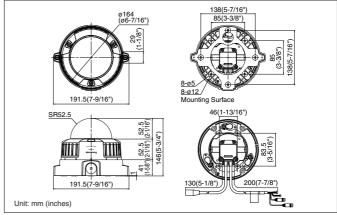
TV System		NTSC	PAL	
Alarm	Alarm Source 3 terminal inputs, VMD, Command alarm			
	Alarm Log	With SDHC/SD memory card: 5,000 logs, Without SDHC/SD memory card: 1,000 logs		
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output,		
		Indication on browser, FTP image transfer, Panasonic protocol output		
	Schedule	Alarm / VMD / Access permission		
Input /	Monitor Output	1.0 V [P-P] / 75 Ω, NTSC	1.0 V [P-P] / 75 Ω, PAL	
Output		composite, RCA Jack	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 93.5 mm stereo mini jack (monaural output) Line level ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT,		
	(Cable)			
	Audio Output (Cable)			
	External I/O Terminals			
	(Cable)	ALARM IN 3 / AUX OUT / EXPOSURE 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	sumption  perating -30 °C ~ +50 °C (-22 °F ~ 122 °F) *3,  re/Humidity 90 % or less (without condensation)  Just Resistance IP66, IEC60529 measuring standard compatible		
	Power Consumption			
	Ambient Operating			
	Temperature/Humidity			
	Water and Dust Resistance			
	Impact Protection			
	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.)	1.8 kg (4.0 lbs.) (with Mounting Bracket)		

\*1 With standard Clear Dome Cover \*2 H.264 and MPEG-4 are alternative.
\*3 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**



#### 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", "SDIII", "SD5", "SD5Link" and "i-Pro" 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.
- 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.

#### **DISTRIBUTED BY:**

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