

Super Dynamic HD Network Camera WV-NP502



H264, True Day/Night HD Camera featuring Super Dynamic

Key Features

- 1,080p HD images up to 15 fps / 720p HD images up to 30 fps
- 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 with conventional
- · Face Super Dynamic technology ensures clear face image.
- 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 lx (Color), 0.08 lx (B/W) at F1.4 (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
- · 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
- · SD/SDHC Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) 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
- 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
- · ONVIF compliant model

Standard Accessories

- Installation Guide Code Label*2..... The followings are for installation. · Power Cord Plug · Safety Wire Plate for Ceiling 1 pc.
- · Safety Wire Lug for Wall ..
- Screws for Mounting Bracket (M2.5 x 8) \dots 2 pcs.
- *1 The CD-ROM contains Panasonic IP Setup Software viewer software "Network Cam
- View 4", and Operation Instructions (PDF).
 This label may be required for network management. The network administrator shall retain the code label.

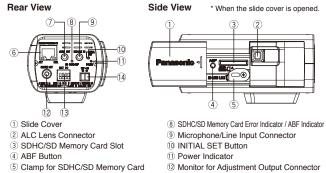
Specifications

TV System	System		NTSC PAL		
Camera	Image Sensor		1/3 type interline transfer CCD		
	Effectiv	e Pixels	1,296 (H) x 976 (V) x2		
	Scanning Mode		Progressive scan		
	Scanning Area		4.86 mm (H) x 3.65 mm (V)		
	Minimum Illumination		1. 3 Megapixel mode:		
	1411111111111111111111111111111111111	iii iiiaiiiiiatioii	0.1		
			Color: 1.0 lx, B/W: 0.08 lx at F1.4 (Shutter: 1/30 s, AGC: High, SD: OFF; Color: 0.06 lx, B/W: 0.005 lx at F1.4 (Shutter: 16/30 s, AGC: High, SD: OFF)		
			3 Megapixel mode:		
			Color: 2.0 lx, B/W: 0.16 lx at F1.4 (Shutter: 1/30 s, AGC: High),		
			Color: 0.12 lx, B/W: 0.01 lx at F1.4 (Shutter: 16/30 s, AGC: High)		
	White Balance		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		
			Indoor: Automatic integration of ALC and ELC (up to 1/100 s) ELC: (up to 3/10,000 s) (ELC: only at Super Dynamic: OFF)		
	Shutter Speed		Fix shutter: 3/100, 2/100, 1/100,		
			1/4,000, 1/10,000 (Only at Supe		
	Super Dynamic		ON / OFF (1.3 Megapixel mode		
	Face Super Dynamic		ON / OFF (Only at Super Dynar	**	
	Dynamic Range		52 dB typical (Super Dynamic: 0		
	Adaptive Black Stretch		ON / OFF (Only at Super Dynar	nic: OFF)	
	AGC		ON (LOW, MID, HIGH) / OFF		
	Electronic Sensitivity UP				
	Black and White Mode			OFF, Level: High / Low, with external contro	
	Digital Noise Reduction		High / Low		
			4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Video Motion Detection		Up to 8 zones, Gray / Mosaic		
	Privacy Zone		ON / OFF		
	Up Side Down				
	Auto Image Stabilizer		ON / OFF		
	Camera Title (OSD)		Up to 16 alphanumeric characters (3 selectable character sizes)		
	Back Focus Adjustment		ABF / MANUAL, ABF mode upon CL/BW switching: AUTO / PRESET / FIX		
Browser	· · · · · · · · · · · · · · · · · · ·		rightness, AUX ON / OFF, Zoom (1x, 2x, 4x)		
GUI	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in		
			4 different Quad screens or 16 split screen (JPEG only).		
	B: :: 1.7		20 characters camera title available.		
	Digital Zoom		1x, 2x, 4x controlled by browser GUI		
	Camera Title		Up to 20 alphanumeric characters		
	Clock Display		Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual)		
	Alarm Control		Reset		
	One Shot Capture		A still picture will be displayed on a newly opened window.		
	Audio		Mic (Line) Input: ON / OFF, Audio Output: ON / OFF		
			Still or Motion Images recorded in the SD/SDHC memory card can be downloaded.		
	SD Memory Data Download		•		
	GUI/Setup		English, French	English, French, Italian,	
	Menu Language		(Installation required for French)	Spanish, German, Russian	
				(Installation required except for English)	
	System Log		Up to 100 (Internal), Up to 4,000	(SD/SDHC memory when the	
	.,		recording format is set to JPEG.) error logs		
	Supported OS		Microsoft® Windows® 8 ,Microsoft® Windows® 7 ,		
	0 1 15		Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Supported Browser		Windows® Internet Explorer® 10.0 (32 bit),		
			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	Networ	k IF	10Base-T / 100Base-TX, RJ-45 connector		
Network	Network IF Image Resolution*1				
	illiage	nesolution i	1.3 Megapixel mode (Aspect ratio [4:3]):		
			H.264: 1,280 x 960 / SVGA (800 x 600) / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			MPEG-4: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			JPEG: 1,280 x 960 / SVGA (800 x 600) / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			1.3 Megapixel mode (Aspect ratio [16:9]):		
			H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps		
			JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps		
			3 Megapixel mode (Aspect ratio [4:3]):		
			H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 15 fps		
			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		
			3 Megapixel mode (Aspect ratio [16:9]):		
			H.264: 1,920 x 1,080 / 640 x 360 / 320 x 240, up to 15 fps		
			JPEG: 1,920 x 1,080 / 640 x 360 / 320 x 240, up to 15 fps		
	U 264 /	Transmission Drig-t-			
	H.264 /				
	MPEG-4	Frame Rate	1/3/5/7.5/10/15/20*/	1/3/5/7.5/10/12 (PAL	
	1		30 fps	model only) / 15 / 20* / 30* fps	
			* 1.3 Megapixel mode only	* 1.3 Megapixel mode only	
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768		
	1		4,096 / 8,192* kbps / Unlimited * H.264 mode only		
		Image Quality			
			LOW / NORMAL / FINE		
			0.2 s / 0.33 s / 0.5 s / 1 s / 2 s / 3	35/48/38	
			UNICAST / MULTICAST		

TV System			NTSC	PAL	
Network	JPEG	Image Quality	10 steps		
		Transmission Type	PULL / PUSH		
	Audio (Compression	G.726 (ADPCM) 32 kbps / 16 kbps		
Audio Mode		Mode	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Authentication for Audi 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		
	Suppor	rted Protocol	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		
	FTP Client		Alarm image transfer, Periodic image transfer, Active/Passive		
			selectable (When the FTP periodic transmission is failed,		
			backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users		Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card		H.264 recording: Manual REC / Alarm REC (Pre/Post)		
	(Option	1)	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* model * SDHC card		
Alarm	Alarm Source		3 terminal inputs, VMD, Command alarm		
	Alarm Actions		SDHC/SD memory recording, E-mail notification, Alarm terminal output,		
			Indication on browser, FTP image transfer, Panasonic protocol output		
	Alarm Log		With SDHC/SD memory card: 5,000 logs, Without SDHC/SD memory card: 1,000 logs		
	Schedule		Alarm / VMD / Access permission		
Input /	Monito	r Output	1.0 V [P-P] / 75 , NTSC	1.0 V [P-P] / 75 , PAL	
Output	(for adjustment)		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 k		
	Audio Output		ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals		ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT,		
			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		12 V DC: 630 mA, PoE (IEEE 802.3af): 7.6 W (Class 0 device)		
	Power Consumption		•		
	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 132.5 mm (D)		
			(2-15/16" (W) x 2-9/16" (H) x 5-3/16" (D))		
	Mass (approx.)		430 g (0.95 lbs.)		
	aco (approx.)				

*1 H.264 and MPEG-4 are alternative.

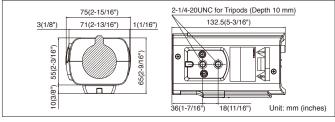
Part Names and Functions



- ⑥ Network Connector (RJ-45 Connector)⑦ Audio Output Connector

- 13 External I/O Terminals
- 14 12 V DC Power Cable Terminals

Appearance



- Transmission Type UNICAST / MULTICAST
- Trademarks and registered trademarks
- Irademarks and registered trademarks

 Microsoft Corporation in the U.S. and other countries.

 UniPhier is a registered trademark of Panasonic Corporation.

 "MEGA Super Dynamic" and "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.

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 Important

 Safety Processing Carefully read the proporation instructions and installation manual before using this product.
- 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.
- · 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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