

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,
- · 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 (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
- · 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

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

- · Safety Wire Lug for Wall
- Screws for Mounting Bracket (M2.5 x 8) ... 2 pcs.
- *1 The CD-ROM contains Panasonic IP Setup Software, viewer software "Network Camera View 4", and Operation Instructions (PDF).

 This label may be required for network management. The network administrator shall retain the code label.

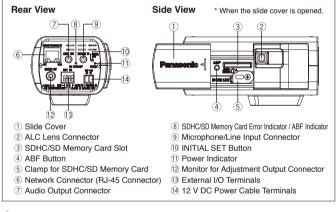
Specifications

TV Systen Camera	Image Sensor	NTSC PAL 1/3 type interline transfer CCD		
	Effective 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:		
		Color: 1.0 lx, B/W: 0.08 lx at F1.4 (Shutter: 1/30 s, AGC: High, SD: OFF		
		Color: 0.06 k, B/W: 0.005 k at F1.4 (Shutter: 16/30 s, AGC: High, SD: OFF) 3 Megapixel mode: Color: 2.0 kx, B/W: 0.16 kx at F1.4 (Shutter: 1/30 s, AGC: High), Color: 0.12 kx, B/W: 0.01 kx 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)		
	Light Control Wode			
		* · · · · · · · · · · · · · · · · · · ·		
	01 11 0 1	ELC: (up to 3/10,000 s) (ELC: only at Super Dynamic: OFF) Fix shutter: 3/100, 2/100, 1/100, 1/250, 1/500, 1/1,000, 1/2,000,		
	Shutter Speed			
	1/4,000, 1/10,000 (Only at Super Dynamic: OFF)			
	Super Dynamic	ON / OFF (1.3 Megapixel mode only)		
	Face Super Dynamic	ON / OFF (Only at Super Dynamic: ON)		
	Dynamic Range	52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)		
	Adaptive Black Stretch	ON / OFF (Only at Super Dynamic: OFF)		
	AGC	ON (LOW, MID, HIGH) / OFF		
	Electronic Sensitivity UP			
	Black and White Mode	Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external control		
	Digital Noise Reduction			
	Video Motion Detection	-		
	Privacy Zone	Up to 8 zones, Gray / Mosaic		
	Up Side Down	ON / OFF		
	Auto Image Stabilizer			
	Camera Title (OSD)	ON / OFF Up to 16 alphanumeric characters (3 selectable character sizes		
	_ ,			
	Back Focus Adjustment	ABF / MANUAL, ABF mode upon CL/BW switching: AUTO / PRESET / FIX		
Browser	Camera Control	Brightness, 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).		
		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. Mic (Line) Input: ON / OFF, Audio Output: ON / OFF Still or Motion Images recorded in the SD/SDHC memory card can be downloaded.		
	Audio			
	SD Memory Data Download			
	GUI/Setup	English, French English, French, Italian,		
		(Installation required for French) Spanish, German, Russian		
	Menu Language			
	0	(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 ,		
		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	Network IF	·		
	Image Resolution*1	10Base-T / 100Base-TX, RJ-45 connector 1.3 Megapixel mode (Aspect ratio [4:3]):		
	ago i resolution i			
		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		
	H 264 / Transmission Drivette	Constant bitrate / Frame rate priority / Best effort /Advanced VBF		
	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		
	I	* 1.3 Megapixel mode only		
	Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /		
	Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps / Unlimited * H.264 mode only		
	Bit Rate/Client Image Quality			
	Image Quality	4,096 / 8,192* kbps / Unlimited * H.264 mode only		

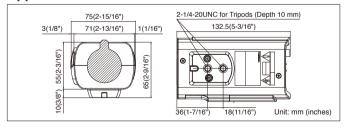
TV System			NTSC	PAL	
Network	JPEG	Image Quality	10 steps		
		Transmission Type	PULL / PUSH		
	Audio (Compression	G.726 (ADPCM) 32 kbps / 16 kbps		
	Audio Mode Authentication for Audio		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
			Level 1 only / Level 2 higher / All users		
	Total B	it Rate	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
	Suppor	ted 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 S	imultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card H		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 S	Source	3 terminal inputs, VMD, Comma	and 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		
	Schedu	ıle	Alarm / VMD / Access permission		
Input /	Monito	r Output	1.0 V [P-P] / 75 , NTSC	1.0 V [P-P] / 75 , PAL	
Output	(for adj	ustment)	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 (Dutput	ø3.5 mm stereo mini jack (monaural output) Line level		
	Externa	al 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 8	02.3af): 7.6 W (Class 0 device)	
	Power	Consumption			
	Ambier	nt Operating	−10 C ~ +50 C (14 F ~ 122 F),		
	Tempe	rature/Humidity	90 % or less (without condensation)		
	Dimens	sions	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.)		

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

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.

 UnliPhier is a registered trademark of Panasonic Corporation.

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

 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

 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.
- · 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.

DISTRIBUTED BY:

