

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 cameras.
- 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
- · 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 (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 frame rate.
- 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

..... 1 pc.

- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation

Standard Accessories

• CD-ROM*11 pc.	Safety Wire Lug for Wall
Installation Guide1 pc.	 Screws for Mounting Bracket (M2.

rews for Mounting Bracket (M2.5 x 8) ... 2 pcs.

retain the code label.

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

.. 1 pc.

The followings are for installation.

Code Label*2

- Power Cord Plug 1 pc. Safety Wire Plate for Ceiling 1 pc.

Optional Accessory

1/3 type High Resolution 2x Varifocal Lens WV-LZA62/2 (2.8 ~ 6 mm) F1.4 (Wide) F2.1 (Tele)



Specifications

Camera	n Image Sensor	NTSC	PAL	
	Effective Pixels	1/3 type interline transfer CCD 1,296 (H) x 976 (V) x2		
	Scanning Mode			
	Scanning Area	Progressive scan 4.86 mm (H) x 3.65 mm (V) 1. 3 Megapixel mode: Color: 1.0 ks, B/W: 0.08 ks at F1.4 (Shutter: 1/30 s, AGC: High, SD: OFF)		
	Minimum Illumination			
	Will inflation inclusion			
		Color: 0.06 Ix, B/W: 0.005 Ix at F1.4 (Shutter: 16/30 s, AGC: High, SD: OFF) 3 Megapixel mode: Color: 2.0 Ix, B/W: 0.16 Ix at F1.4 (Shutter: 1/30 s, AGC: High),		
	White Balance	Color: 0.12 kx, B/W: 0.01 kx at F1.4 (Shutter: 16/30 s, AGC: High) AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K) Outdoor: Automatic integration of ALC and ELC		
	Light Control Mode			
	Light Control Mode			
		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) Fix shutter: 3/100, 2/100, 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (Only at Super Dynamic: OFF) ON / OFF (1.3 Megapixel mode only)		
	Shutter Speed			
	Super Dynamic			
	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 (LOW, MID, HIGH) / OFF P OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))		
	AGC			
	Electronic Sensitivity UP			
	Black and White Mode			
	Digital Noise Reduction			
	Video Motion Detection			
	Privacy Zone	Up to 8 zones, Gray / Mosaic		
	Up Side Down	ON / OFF		
	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	Camera Control	Brightness, AUX ON / OFF, Zoom (1x, 2x, 4x)		
GUI	Display Mode			
GUI	Display Mode	Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	D: 11 1 7	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.		
	Audio	Mic (Line) Input: ON / OFF, Audio Output: ON / OFF		
	SD Memory Data Download	Still or Motion Images recorded in the SE	/SDHC memory card can be downloaded	
	GUI/Setup	English, French	English, French, Italian,	
	Menu Language	(Installation required for French)		
	3		(Installation required except for English	
	System Log	Up to 100 (Internal). Up to 4.00		
	-,	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® 7 Professional 64 bit/32 bit,		
		Microsoft® Windows Vista® Business SP1 32 bit,		
		Microsoft [®] Windows [®] XP Home Edition/Professional SP3 The language of the OS must be same as selected GUI language.		
	Ourse a shared Durawayay	0 0	0 0	
	Supported Browser	Windows® Internet Explorer® 8.0 32 bit (Microsoft® Windows® 7 64 bit/32 bit)		
		Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business SP1 32 bit		
		Microsoft® Internet Explorer® 6.		
	1	(Microsoft® Windows® XP Home Edition/Professional SP3)		
		10Base-T / 100Base-TX, RJ-45 connector		
Network	Network IF		connector	
Network	Network IF Image Resolution*1	1.3 Megapixel mode (Aspect ra	connector tio [4:3]):	
Network		1.3 Megapixel mode (Aspect ra	connector tio [4:3]):	
Network		1.3 Megapixel mode (Aspect ra	connector tio [4:3]): A (640 x 480) / QVGA (320 x 240), up to 30 fp:	
Network		1.3 Megapixel mode (Aspect ra H.264: 1,280 x 960 / SVGA (800 x 600) / VG/ MPEG-4: VGA (640 x 480) / QV	connector tio [4:3]): \ (640 x 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps	
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Network		1.3 Megapixel mode (Aspect ra H264: 1,280 x 960 / SVGA (800 x 600) / VG/ MPEG-4: VGA (640 x 480) / QV JPEG: 1,280 x 960 / SVGA (800 x 600) / VG/ 1.3 Megapixel mode (Aspect ra	connector tio [4:3]): (460 × 480) / OVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps (460 x 480) / OVGA (320 x 240), up to 30 fps tio [16:9]):	
Network		1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1,280 x 960 / SVGA (800 x 600) //G/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360	connector tio [4:3]): (640 × 480) / QVGA (320 × 240), up to 30 fp GA (320 × 240), up to 30 fps (640 × 480) / QVGA (320 × 240), up to 30 fps (15 [16:9]): / 320 × 180, up to 30 fps	
Network		1.3 Megapixel mode (Aspect ra H264: 1,280 x 960 / SVGA (800 x 600) / VG/ MPEG-4: VGA (640 x 480) / QJ JPEG: 1,280 x 960 / SVGA (800 x 600) / VG/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360	connector tio [4:3]): (640 x 480) / QVGA (320 x 240), up to 30 fp (640 x 480) / QVGA (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fps / 320 x 180, up to 30 fps / 320 x 180, up to 30 fps	
Network		1.3 Megapixel mode (Aspect ra H264: 1,280 x 960 / SVGA (800 x 600) / VG/ MPEG-4: VGA (640 x 480) / Q/ JPEG: 1,280 x 960 / SVGA (800 x 600) / VG/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 3 Megapixel mode (Aspect ratic	connector lio [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps lio [16:9]): / 320 x 180, up to 30 fps [4:3]): [4:3]):	
Network		1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 960) / VGA MPEG-4: VGA (640 x 480) / QV JPEG: 1,280 x 960 / SVGA (800 x 600) / VGA 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 3 Megapixel mode (Aspect ratic H.264: 1,280 x 960 / VGA (640 x 48	connector tio [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps tio [16:9]): / 320 x 180, up to 30 fps / 320 x 180, up to 30 fps [4:3]): 30) / QVGA (320 x 240), up to 15 fp:	
Network		1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / QV JPEG:1280 x 960 / SVGA (800 x 600) //G/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 3 Megapixel mode (Aspect ratic H.264: 1,280 x 960 / VGA (640 x 44) MPEG-4: VGA (640 x 480) / QV	connector tio [4:3]): (440 × 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps (460 x 480) / QVGA (320 x 240), up to 30 fps tio [16:9]): / 320 x 180, up to 30 fps / 320 x 180, up to 30 fps [4:3]): OJ / QVGA (320 x 240), up to 15 fps	
Network		1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1,280 x 960 / SVGA (800 x 600) //G/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 361 H.264: 1,280 x 960 / VGA (640 x 480) MPEG-4: VGA (640 x 480) / OV JPEG: 2,048 x 1,536 / 1,280 x 99	connector tio [4:3]): (640 × 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps (640 × 480) / QVGA (320 x 240), up to 30 fps / 320 x 180, up to 30 fps / 320 x 180, up to 30 fps (4:3)): (0) / QVGA (320 x 240), up to 15 fps GA (320 x 240), up to 15 fps 50 / VGA (640 x 480), up to 15 fps	
Network		1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) /VG/ MPEG-4: VGA (640 x 480) / OU JPEG:1,280 x 960 / SVGA (800 x 600) /VG/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 3 Megapixel mode (Aspect ratio H.264: 1,280 x 960 / VGA (640 x 44 MPEG-4: VGA (640 x 480) / QU JPEG: 2,048 x 1,536 / 1,280 x 9 3 Megapixel mode (Aspect ratio	connector iio [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fp (GA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps (4:3)): (320 x 180, up to 30 fps (4:3)): (320 x 180, up to 30 fps (4:3)): (320 x 240), up to 15 fps (320 x 240), up to 15 fps (4:3), (640 x 480), up to 15 fp. (16:9)):	
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Network	Image Resolution*1	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1280 x 960 / SVGA (800 x 600) //G/ 1.3 Megapixel mode (Aspect ra H.264:1,280 x 720 / 640 x 360 3 Megapixel mode (Aspect ratic H.264:1,280 x 960 / VGA (640 x 480) / OV JPEG:2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264:1,280 x 960 / VGA (640 x 480) / OV JPEG:2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264:1,920 x 1,080 / 640 x 36 JPEG:1,920 x 1,080 / 640 x 36	connector tio [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps itio [16:9]): 320 x 180, up to 30 fps / 320 x 180, up to 30 fps [4:3]): 30) / QVGA (320 x 240), up to 15 fps 50 / VGA (640 x 480), up to 15 fps 0 / 320 x 240, up to 15 fps	
Network	Image Resolution*1	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1,280 x 960 / SVGA (800 x 600) /VG/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 dMPEG-4: VGA (640 x 440) / OV JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,280 x 960 / VGA (640 x 440) / OV JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 Constant bit rate / Frame rate	connector tio [4:3]): (400 × 40) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps (460 x 480) / QVGA (320 x 240), up to 30 fps tio [16:9]): / 320 x 180, up to 30 fps / 320 x 180, up to 30 fps (4:3]): GA (320 x 240), up to 15 fps 30 / VGA (640 x 480), up to 15 fps 10 / 320 x 240, up to 15 fps 0 / 320 x 240, up to 15 fps 0 / 320 x 240, up to 15 fps	
Network	Image Resolution*1 H.264 / Transmission Priority MPEG-4 Frame Rate	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1280 x 960 / SVGA (800 x 600) //G/ 1.3 Megapixel mode (Aspect ra H.264:1,280 x 720 / 640 x 360 3 Megapixel mode (Aspect ratic H.264:1,280 x 960 / VGA (640 x 480) / OV JPEG:2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264:1,280 x 960 / VGA (640 x 480) / OV JPEG:2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264:1,920 x 1,080 / 640 x 36 JPEG:1,920 x 1,080 / 640 x 36	connector ito [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps (4:3)): (320 x 180, up to 30 fps (4:3)): (320 x 180, up to 30 fps (4:3)): (320 x 240), up to 15 fps (320 x 240, up to 15 fps) (320 x 240	
Network	Image Resolution*1	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1,280 x 960 / SVGA (800 x 600) /VG/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 dMPEG-4: VGA (640 x 440) / OV JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,280 x 960 / VGA (640 x 440) / OV JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 Constant bit rate / Frame rate	connector tio [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps tio [16:9]): (320 x 180, up to 30 fps [4:3]): 30) / QVGA (320 x 240), up to 15 fps GA (320 x 240), up to 15 fps 0 / VGA (640 x 480), up to 15 fps 0 / 320 x 240, up to 15 fps 0 / 320 x 240, up to 15 fps 1 / 3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20* / 30* fps	
Network	Image Resolution*1 H.264 / Transmission Priority MPEG-4 Frame Rate	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //GV MPEG-4: VGA (640 x 480) / OV JPEG:1,280 x 960 / SVGA (800 x 600) //GJ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 MPEG-4: VGA (640 x 480) / OV JPEG: 2,048 x 1,536 / 1,280 x 99 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 480 JPEG: 2,048 x 1,536 / 1,280 x 99 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 36 Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* /	connector ito [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fp GA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps (4:3)): (320 x 180, up to 30 fps (4:3)): (320 x 180, up to 30 fps (4:3)): (320 x 240), up to 15 fps (320 x 240, up to 15 fps) (320 x 240	
Network	Image Resolution*1 H.264 / Transmission Priority MPEG-4 Frame Rate	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 960) / VGA MPEG-4: VGA (640 x 480) / QV JPEG: 1280 x 960 / SVGA (800 x 600) / VGJ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 3 Megapixel mode (Aspect ratic H.264: 1,280 x 960 / VGA (640 x 480) / QV JPEG: 2,048 x 1,536 / 1,280 x 99 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* / 30* fps	connector tio [4:3]): ((60 × 80) / Q/GA (320 × 240), up to 30 fp GA (320 × 240), up to 30 fps ((60 × 480) / Q/GA (320 × 240), up to 30 fps tio [16:9]): / 320 × 180, up to 30 fps / 320 × 180, up to 30 fps [4:3]): 30) / Q/GA (320 × 240), up to 15 fps 30 / VGA (640 × 480), up to 15 fps 0 / 320 × 240, up to 15 fps 0 / 320 × 240, up to 15 fps 1 / 3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20' / 30° fps * 1.3 Megapixel mode only	
Network	H.264 / Transmission Priority MPEG-4 *1	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1280 x 960 / SVGA (800 x 600) //G/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,280 x 960 / VGA (640 x 480) / OV JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* / 30* fps * 1.3 Megapixel mode only 64 / 128 / 256 / 384 / 512 / 768	connector tio [4:3]): ((40 × 480) / Q/GA (320 × 240), up to 30 fp GA (320 × 240), up to 30 fps ((40 × 480) / Q/GA (320 × 240), up to 30 fps tio [16:9]): / 320 × 180, up to 30 fps (4:3)): O) / Q/GA (320 × 240), up to 15 fps S0 / V/GA (640 × 480), up to 15 fps 0 / 320 × 240, up to 15 fps 0 / 320 × 240, up to 15 fps 1 / 3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20* / 30* fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /	
Network	Image Resolution*1 H.264 / Transmission Priority MPEG-4 *1 Bit Rate/Client	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1,280 x 960 / SVGA (800 x 600) /VG/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 JPEG: 1,280 x 720 / 640 x 360 MPEG-4: VGA (640 x 480) / OV JPEG: 2,048 x 1,536 / 1,280 x 9 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* / 30* fps * 1.3 Megapixel mode only 64 / 128 / 256 / 384 / 512 / 768 4,096 / 8,192* kbps / Unlimited	connector tio [4:3]): (460 × 480) / Q/GA (320 × 240), up to 30 fps (460 × 480) / Q/GA (320 × 240), up to 30 fps tio [16:9]): / 320 × 180, up to 30 fps / 320 × 180, up to 30 fps [4:3]): 0) / Q/GA (320 × 240), up to 15 fps 50 / V/GA (640 × 480), up to 15 fps 0 / 320 × 240, up to 15 fps 0 / 320 × 240, up to 15 fps 1 / 3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20* / 30* fps * 1.3 Megapixel mode only / 1.024 / 1,536 / 2,048 / 3,072 /	
Network	Image Resolution*1 H.264 / Transmission Priority MPEG-4 Frame Rate *1 Bit Rate/Client Image Quality	1.3 Megapixel mode (Aspect ra H264:1,280 x 960 / SVGA (800 x 600) //G/ MPEG-4: VGA (640 x 480) / OV JPEG:1280 x 960 / SVGA (800 x 600) //G/ 1.3 Megapixel mode (Aspect ra H.264: 1,280 x 720 / 640 x 360 JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,280 x 960 / VGA (640 x 480) / OV JPEG: 2,048 x 1,536 / 1,280 x 90 3 Megapixel mode (Aspect ratic H.264: 1,920 x 1,080 / 640 x 36 JPEG: 1,920 x 1,080 / 640 x 36 Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* / 30* fps * 1.3 Megapixel mode only 64 / 128 / 256 / 384 / 512 / 768	connector tio [4:3]): ((64) x 480) / QVGA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps ((64) x 480) / QVGA (320 x 240), up to 30 fps ((16:9)): (320 x 180, up to 30 fps (14:3)): 30) / QVGA (320 x 240), up to 15 fps (16:9)): 0 / 320 x 240, up to 15 fps 0 / 320 x 240, up to 15 fps 0 / 320 x 240, up to 15 fps 1 / 3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20* / 30° fps * 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only	

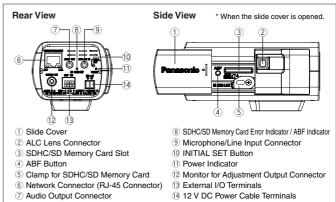
Trademarks and	registered t	rademarks
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- UniPhier is a registered trademark of Panasonic Corporation.
- "Super Dynamic", "SDII", "SDII", "SD5Link", "i-PRO" and "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.
Important
- 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.

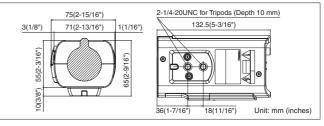
DISTRIBUTED BY:

TV System			NTSC	PAL	
Network	JPEG	Image Quality	10 steps	I	
		Transmission Type	PULL / PUSH		
	Audio (Compression	G.726 (ADPCM) 32 kbps / 16 kt	ops	
	Audio N	Node	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Authen	tication 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 SDHC/SD memory card is available.)		
	No. of Simultaneous Users				
	SDHC/	SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)		
	(Option)		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, Comma		
aann	Alarm Actions		SDHC/SD memory recording, E-mail notification, Alarm terminal output,		
	Alarm Actions		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	0	Alarm / VMD / Access permission		
nput /	Monitor Output		1.0 V [P-P] / 75 Ω, NTSC	1.0 V [P-P] / 75 Ω, PAL	
Dutput		ustment)	composite, RCA Jack	composite, RCA Jack	
Julput	Microphone/Line Input		MIC IN and Line IN are selectable.		
	Microphone/Line input				
			Ø3.5 mm stereo mini jack (monaural input)		
			(Applicable microphone: Plug-in power type) Supply voltage: 2.5 V \pm 0.5 V Input impedance: approx. 2 k Ω		
	Audio 0	Nutrout			
		al I/O Terminals	ø3.5 mm stereo mini jack (monaural output) Line level ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT.		
Externa		a i/O terminais			
General	Safety/EMC Standard		ALARM IN 3 / AUX OUT / EXPO		
Jeneral	Safety/	EINIC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024)	
			C-UL (CAN/CSA C22.2 No.60065),		
	Deuter	Source and	DOC (ICES003 ClassA)		
	1.0100	oouroo unu	12 V DC: 630 mA, PoE (IEEE 80	J2.3at): 7.6 W (Class 0 device)	
		Consumption	10.00 50.00 (11.05 100.0		
		nt Operating	-10 °C ~ +50 °C (14 °F ~ 122 °F),		
	· ·	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 (a	approx.)	430 g (0.95 lbs.)		

Part Names and Functions



Appearance



- 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.



http://panasonic.net/security/ Printed in Japan (2A-045GA)