

Megapixel Day/Night Fixed Dome Network Camera **WV-NF302**

NTSC WV-NF302 (12 V DC or PoE) PAL WV-NF302 (12 V DC or PoE)



Metal Body Day/Night Fixed Dome Network Camera featuring a 1.3 Megapixel CCD for superior image

Key Features

- Superior image of 1,280 x 960 pixels, enhancing its identification capability
- MPEG-4/JPEG digital signal output at VGA image size with up to 30 ips
- MPEG-4 and JPEG dual stream output for simultaneous real time monitoring and high resolution recording
- Progressive output ensures clear images with less motion blur and no tearing even when the subject is moving.
- High sensitivity: 1.5 lux (Color) with clear dome cover at F1.3 (Wide)
- ABS (Adaptive Black Stretch) enhances visibility of dark area without degrading image quality in bright area by analyzing the "illumination map/signal level distribution" and adjusting gamma correction for each area separately.
- Superior color reproduction by primary (RGB) color filter
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Outdoor/Indoor selectable light control modes: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level.
- 2.8 ~ 10 mm, 3.6x Varifocal Auto Iris lens
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- 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 Terminal input, VMD and Panasonic alarm command can trigger actions such as SD 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.
- Image compression ratio can be changed by alarm so that higher quality image can be provided.
- Focus assist: Focus adjustment position is displayed on the screen making it simple to find the best focus position.
- · 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.
- Multiscreen: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only), 20 characters camera title is available for each camera.

- FTP client function enables periodic image data transfer or transfer upon alarm.
- SD Memory card slot for manual recording, alarm recording and backup upon network failure.
- 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 best available frame rate.
- · Alarm log, Manual REC log, FTP error log saved in the SD 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: 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
- Scheduling function for Alarm / VMD / Access permission
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation
- Flexible power sources: Power over Ethernet (PoE) IEEE 802.3af or 12 V DC
- Three-way hinge (horizontal, vertical and swivel rotation) for flexible installation
- Various mounting options: Surface mount, Embedded mount (with optional WV-Q173), Mounting to a junction box (locally obtained)
- Heavy duty Metal body and polycarbonate dome cover ensure 24/7 operation.

Standard Accessories

- Installation Guide 1 pc. Code Label The followings are for the installation. Power cord plug Audio cable 1 pc. • Focus adjustment jig 1 pc. · Camera mount bracket
- Camera fixing screw (M3 x 6)

 - Cable tie 2 pcs. (incl. a spare tie) * Panasonic IP setting software, the viewer
 - software, the operating instructions (PDF) and the setup instructions (PDF) are included on the CD-ROM.

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q173

Smoke Dome Cover WV-NF5S

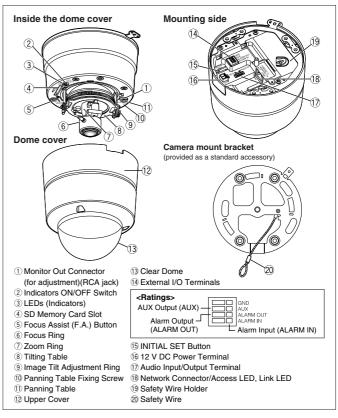


Specifications

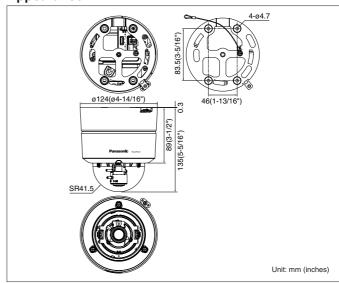
TV System		NTSC PAL		
Camera	Image Sensor	6 mm (1/3 inch) progressive scan CCD		
	Effective Pixels	1,296 (H) x 976 (V)		
	Scanning Mode	Progressive Scan		
	Scanning Area	4.86 mm (H) x 3.65 mm (V)		
	Minimum Illumination	Color: 1.5 lux at F1.3 (Wide, clear dome)		
		B/W: 0.9 lux at F1.3 (Wide, clear dome)		
	White Balance	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 (up to 1/2,000 sec.) Indoor: Automatic integration of ALC and ELC (up to 3/100 sec.)		
	Light Control			
	Back Light Compensation	ON (Auto) / OFF (with 8 x 6 mask area)		
	AGC	ON (LOW, MID, HIGH) / OFF		
	Adaptive Black Stretch	ON / OFF		
	Electronic 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 and White Mode	OFF / AUTO (No IR filter moving)		
	Digital Zoom	1x, 2x, 4x, Controlled by browser GUI		
	Video Motion Detection	4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy Zone	Up to 8 zones, Gray/Mosaic		
	Other Image Controls	R-gain, B-gain, Croma gain, Pedestal, Aperture (Sharpness)		
	Camera Title (OSD)	Up to 16 alphanumeric characters (3 selectable character sizes)		
	Back Focus Adjustment	Manual with Focus Assist		
	Lens Mount	Original		
	Synchronization	Internal		
Lens	Focal Length	2.8 mm ~ 10 mm, 3.6x varifocal		
	Angular Field of View	$H:27.7^{\circ}$ (Tele) ~ 100.3° (Wide) $~V:20.8^{\circ}$ (Tele) ~ 73.5° (Wide)		
	Maximum Aperture Ratio	1:1.3 (Wide) 1:3.1 (Tele)		
	Focusing Range	1.2 m ~ ∞		
Adjusting	Horizontal	180° (clockwise), 160° (counterclockwise)		
Angle	Vertical	±75°, Image tilt adjustment range: ±100°		
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		
adi	Display Mode	screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Digital Zoom	1x, 2x, 4x Controlled by browser GUI		
	Digital Zoom	•		
	Camera Title	Up to 20 alphanumeric characters		
	Clock Display	ON/OFF, Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)		
	Alarm Control	Reset		
	One Shot Capture	A still picture is displayed on a newly opened window.		
	Audio	Mic Input: ON/OFF, Audio Output: ON/OFF		
	GUI /	English, French English, French, Italian, Spanish, German,		
	Setup Menu Language	(Installation required for French) Russian (Installation required except for English)		
	System Log	Up to 100 (Internal), Up to 4,000 (SD memory) error logs		
	Supported OS	Microsoft® Windows Vista® Business (32 bit) Microsoft® Windows® XP Home Edition SP2 Microsoft® Windows® XP Professional SP2 Windows® Internet Explorer® 7.0 Microsoft® Internet Explorer® 6.0 SP2 (only with		
	Supported Browser			
		Microsoft® Windows® XP Home Edition SP2 or Microsoft® Windows® XP Professional SP2)		
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector, IEEE 802.3af. PoE compatible		
INCLINOIR	Image Resolution	1,280 x 960 (JPEG) / VGA (640 x 480) / QVGA (320 x 240)		
		MPEG-4: Image quality: LOW/NORMAL/FINE, Transmission type: UNICAST/MULTICAST		
	Image Compression	JPEG: Image quality: 10 steps, Transmission type: PULL/PUSH		
		MPEG-4 and JPEG dual streaming, JPEG multi-resolution supported		
	Image Refresh Rate	0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips		
		(Frame rate of JPEG will be reduced when displaying JPEG and MPEG-4 simultaneously		
	Audio Compression	G.726 (ADPCM) 32 kbps / 16 kbps		
	Audio Mode	OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Total Bit Rate	64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited		
	Max Bit Rate/Client	Constant bit rate mode: 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps		
	(MPEG-4)	Frame rate priority mode: 4,096 kbps / unlimited		
	Supported Protocol	IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS,		
		NTP, SNMP IPv6: TCP/IP, UDP/IP, HTTP, HTP, FTP, SMTP, DNS, NTP, SNMP		
	FTP Client	Alarm image transfer, FTP Periodic transfer, Active/Passive selectable (When the FT		
	0.011			
	No. of Cimultana	periodic transmission is failed, backup on an optional SD memory card is available.)		
	No. of Simultaneous Users	16 (Depend on network conditions)		
	SD Memory Card	Manual REC/Alarm REC/Backup upon network failure. Compatible SD card: Panasonic		
	(Option)	64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB model. SDHC card is not supported.		
	Alarm E-mail	Up to 4 e-mail addresses		
	Schedule	Alarm, VMD, Access permission can be enabled/disabled by time schedule		
	User Registration	Up to 20 users		
	User/Host Level	3 Levels: Administrator, Camera control, Live only		
	Security Measures	User authentication (ID 1 ~ 32 digit, PW 4 ~ 32 digit), Host authentication (IP address)		
Alarm	Alarm Source	VMD, Command alarm, Terminal input		
	Alarm Actions			
	,	SD memory recording, E-mail notification, Alarm terminal output,		
	Manitar Output //	Indication on browser, FTP image transfer, Panasonic protocol output		
Input /				
Output	Microphone Input	ø3.5 mm mini-jack (applicable microphone: plug-in-power type)		
	I	Supply voltage: 2.5 V \pm 0.5 V, Input impedance: 3 k Ω \pm 10 %		
		ø3.5 mm stereo mini-jack (line-level, monaural output)		
	Audio Output External I/O Terminals	ø3.5 mm stereo mini-jack (line-level, monaural output) 1x Alarm input, 1x Alarm output, 1x AUX output		

TV System		NTSC	PAL
General	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 / Consumption	n 12 V DC: 510 mA, PoE (IEEE802.3af): 6.4 W (Class 2 device) e -10 °C - +50 °C (14 °F ~ 122 °F) y 90 % or less (without condensation) g124 mm x 135 mm (H) (ø4-14/16" x 5-5/16" (H)) 930 g (2.05 lbs.) (including the camera mount bracket)	
	Ambient Operating Temperature		
	Ambient Operating Humidity		
	Dimensions		
	Weight (approx.)		

Part Names and Functions



Appearance



Trademarks and registered trademarks

External I/O Terminals 1x Alarm input, 1x Alarm output, 1x AUX output

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 - 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.

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