



Day/Night 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 fps
- 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) at F1.4
- 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
- Selectable light control modes: Outdoor/Indoor/ELC
 - Outdoor: Up to 1/2,000 Electronic shutter is automatically applied in conjunction with ALC lens iris control depending on the luminance level.
 - Indoor: 1/100, 2/100 or 3/100 electronic shutter is automatically applied depending on the luminance level to eliminate flicker caused by 50 Hz light sources.
 - ELC: Up to 1/10,000 Electronic shutter is automatically applied for a fix 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, 24 V AC or 12 V DC

Standard Accessories

- | | |
|--|---|
| • CD-ROM*1 pc. | • Screw (M2.5 x 8) 2 pcs. (including a spare screw) |
| • Installation manual 1 pc. | |
| • Power terminal 1 pc. | |
| • Code Label1 pc. | |
| • Safety wire plate (for ceiling mount) 1 pc. | |
| • Safety wire lug (for wall mount) 1 pc. | |
- * Panasonic IP setting software, the viewer software, the operating instructions (PDF) and the setup instructions (PDF) are included on the CD-ROM.

Optional Accessory

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

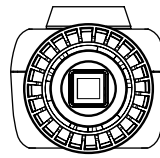


Specifications

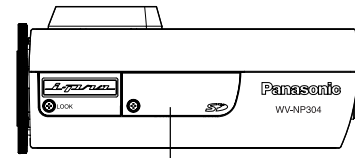
TV System	NTSC	PAL
Camera	Image Sensor	
	6 mm (1/3 inch) progressive scan CCD	
	Effective Pixels	
	1,296 (H) x 976 (V)	
	Scanning Mode	
	Progressive Scan	
	Scanning Area	
	4.86 mm (H) x 3.65 mm (V)	
	Minimum Illumination	
	Color: 1.5 lux at F1.4 B/W: 0.9 lux at F1.4	
	White Balance	
	AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)	
	Light Control	
	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.) ELC: (up to 1/10,000 sec.)	
	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, Chroma 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		
CS mount		
Synchronization		
Internal		
Browser GUI	Camera Control	
	Brightness, AUX ON / OFF, Zoom (1x, 2x, 4x)	
	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 is displayed on a newly opened window.	
	Audio	
	Mic Input: ON / OFF, Audio Output: ON / OFF	
	GUI / Setup Menu Language	
	English, French (Installation required for French)	
	English, French, Italian, Spanish, German, 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	
Supported Browser		
Windows® Internet Explorer® 7.0 Microsoft® Internet Explorer® 6.0 SP2 (only with 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	
	Image Resolution	
	1,280 x 960 (JPEG) / VGA (640 x 480) / QVGA (320 x 240)	
	Image Compression	
	MPEG-4: Image quality: LOW / NORMAL / FINE, Transmission type: UNICAST / MULTICAST 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 (MPEG-4)	
	Constant bit rate mode: 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps 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, RTP, FTP, SMTP, DNS, NTP, SNMP	
	FTP Client	
	Alarm image transfer, FTP Periodic transfer, Active/Passive selectable (When the FTP periodic transmission is failed, backup on an optional SD memory card is available.)	
	No. of Simultaneous Users	
	16 (Depends on network conditions)	
	SD Memory Card (Option)	
Manual REC/Alarm REC/Backup upon network failure. Compatible SD card: Panasonic 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, Indication on browser, FTP image transfer, Panasonic protocol output		
Input / Output	Monitor Output	
	1.0 V [p-p] / 75 Ω / NTSC composite signal / RCA jack	
	1.0 V [p-p] / 75 Ω / PAL composite signal / RCA jack	
	Microphone Input	
	ø3.5 mm mini-jack (applicable microphone: plug-in-power type) Supply voltage: 2.5 V ±0.5 V, Input impedance: 3 kΩ ±10 %	
Audio Output		
ø3.5 mm stereo mini-jack (line-level, monaural output)		
External I/O Terminals		
1x Alarm input, 1x Alarm output, 1x AUX output		
General	Safety / EMC Standard	
	UL (UL60065), FCC (Part15 ClassA), CE (EN55022 ClassB, EN55024), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA), CE (EN55022 ClassB, EN55024), GOST (GOST R 51558)	
	Power Source / Consumption	
	12 V DC: 530 mA, 24 V AC 50 / 60 Hz: 5.2 W, PoE (IEEE802.3 af): 6.4 W (Class 2 device)	
	Ambient Operating Temperature	
	-10 °C ~ +50 °C (14 °F ~ 122 °F)	
	Ambient Operating Humidity	
90 % or less (without condensation)		
Dimensions		
72 mm (W) x 68 mm (H) x 158 mm (D) (2-13/16" (W) x 2-11/16" (H) x 6-1/4" (D))		
Weight (approx.)		
470 g (1.03 lbs.)		

Part Names and Functions

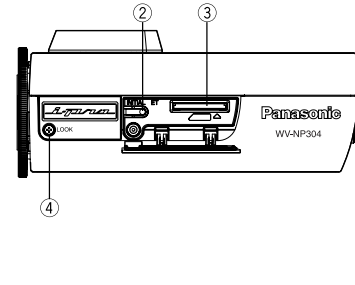
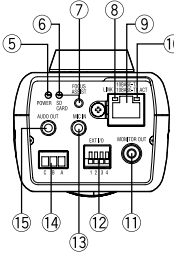
Front View



Side View

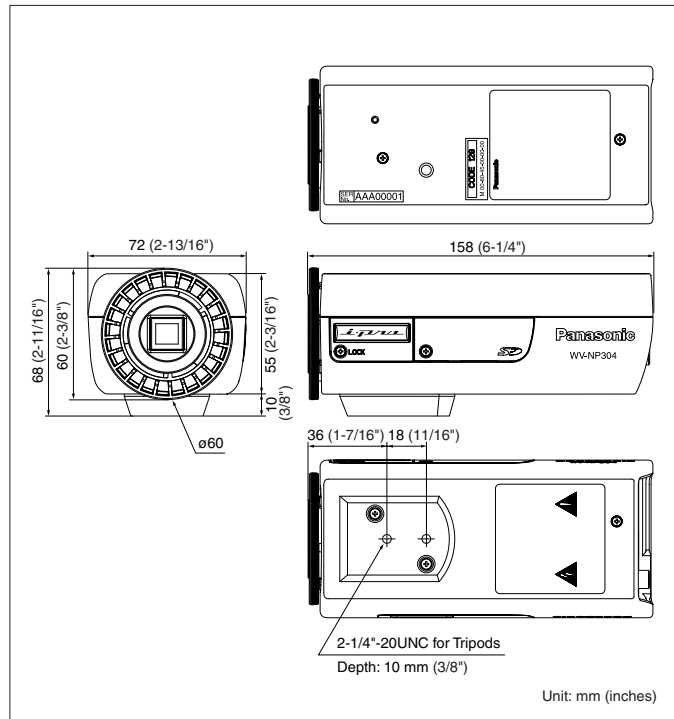


Rear View



- ① SD Memory Card Cover
- ② INITIAL SET Button
- ③ SD Memory Card Slot
- ④ Flange-back Ring Fixing Screw
- ⑤ Power Indicator
- ⑥ Link Indicator
- ⑦ Focus Assist Button
- ⑧ Focus Assist Indicator
- ⑨ Network Connector
- ⑩ Access Indicator
- ⑪ Monitor Out Connector
- ⑫ External I/O Terminals
- ⑬ Microphone in Connector
- ⑭ 24 V AC / 12 V DC Power Cable Terminal
- ⑮ Audio Out Connector

Appearance



Trademarks and registered trademarks

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
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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.

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