

Lens: optional



Mega-Pixel MPEG-4/JPEG dual streaming network camera

Key Features

- MPEG-4/JPEG digital signal output at VGA image size with up to 30 ips.
- MPEG-4 and JPEG dual stream output for simultaneous live monitoring and high resolution recording.
- Progressive output provides clear images, even when the subject is moving.
- High sensitivity with Day-Night function: 1.0 lux (Color), 0.06 lux (B/W) at F1.4.
- Adaptive Digital Noise Reduction: 2D-DNR and 3D-DNR integration ensures reduced noise in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 10x) / Manual (Up to 32x).
- Electronic shutter: Up to 1/10,000 sec.
- Video Motion Detector with 4 programmable detection areas and 3 sensitivity levels.
- Up to 8 Privacy zones
- Auto image stabilizer for applications where vibration or wind is a concern.
- Flexible digital zoom and pan/tilt operation: Up to 5x variable digital zoom and pan/tilt can be set in the setup menu or controlled by a system controller (effective both for analog and network video). 2x or 4x digital zoom and pan/tilt can be controlled by the browser GUI for network video.
- Internal / Multiplexed Vertical Drive (VD2) synchronization.
- Camera title displays: Up to 16 (OSD) and 20 (on browser) alphanumeric characters.
- SD Memory card slot for alarm recording and backup upon network failure. Recorded data can be downloaded by using FTP command.
- Auto Back Focus (ABF) ensures easy installation and stable focus in both color and B/W modes.
- Alarm sources including Terminal input, VMD and Panasonic alarm command can trigger actions including SD memory recording/FTP image transfer, E-mail notification, Alarm indication, Terminal output and Panasonic protocol output.
- Built-in microphone for audio (one-way).
- Built-in network interface (10Base-T / 100Base-TX).

- Multiscreen: Images from 8 cameras can be displayed in two separate Quad screens (JPEG only). 20 characters camera title is available for each camera.
- FTP client function enables periodic image data transfer or transfer upon alarm.
- Alarm e-mail notification
- Max bit rate/client for MPEG-4 (64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps) combined with Total bit rate control (64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / 10 Mbps / Unlimited) allowing flexible network management.
- Supported Protocol: TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, RTP and SNMP.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Chinese, Russian (PAL), English, French (NTSC), (Installation required except for English).

Standard Accessories

- | | |
|--|---|
| • CD-ROM* 1 pc. | The following is for the installation. |
| • Operating Instructions (English version) 1 pc. | • Cord label 1 pc. |
| • ALC lens connector cap 1 pc. | |
| • Power cord (only for the WV-NP1000) 1 pc. | * The IP setting software, the viewer software and the network operating instructions (PDF) are included on the CD-ROM. |

Optional Accessory

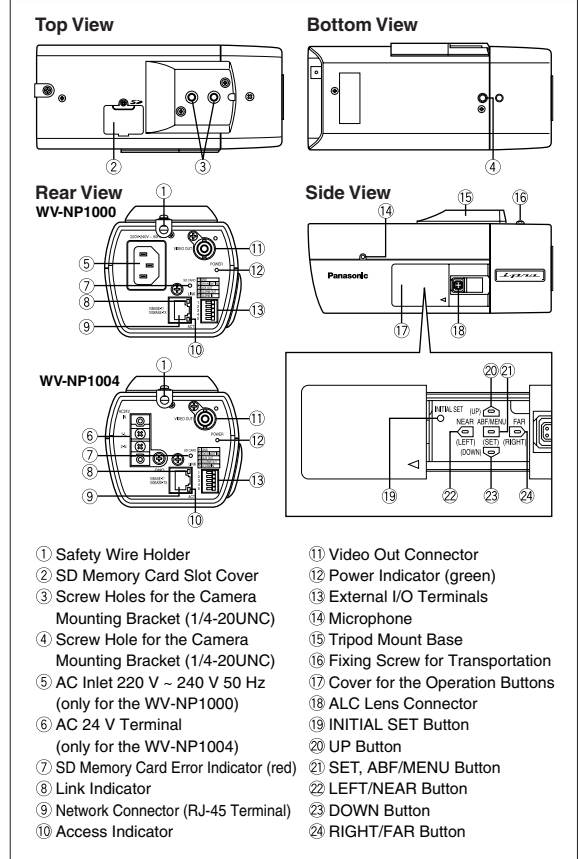
- 1/3-type 2x Varifocal Lens
WV-LZA62/2
(2.8 ~ 6 mm)
F1.4 (wide)
F2.1 (tele)



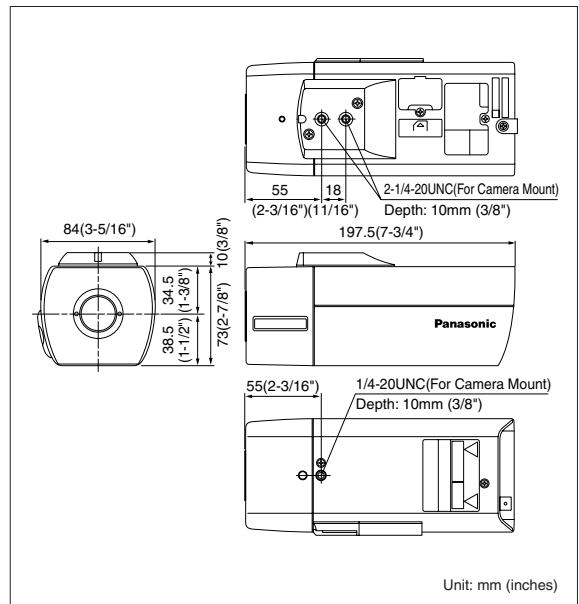
Specifications

TV System	NTSC	PAL
Camera	Image Sensor 1/3-type Progressive / Interline transfer compatible CCD Effective Pixels Full scanning mode: 1,296 (H) x 966 (V) Partial scanning mode: 960 (H) x 720 (V) Scanning Mode Full scanning mode: Progressive with interlace conversion for analog output. Partial scanning mode: 2:1 interlace with motion adaptive progressive conversion for network output. Scanning Area Full scanning mode: 4.8 mm (H) x 3.6 mm (V) Partial scanning mode: 3.6 mm (H) x 2.7 mm (V) Analog Scanning Frequency Horizontal: 15.734 kHz, Vertical: 59.94 Hz Horizontal: 15.625 kHz, Vertical: 50 Hz Analog Scanning Line 525 lines 625 lines Analog Horizontal Resolution Full scanning mode: H: 600 TV Lines (color), 780 TV Lines (B/W) Partial scanning mode: H: 540 TV Line (color), 570 TV Lines (B/W) Analog Vertical Resolution Full scanning mode: 450 TV Lines Full scanning mode: 450 TV Lines Partial scanning mode: 400 TV Lines Partial scanning mode: 350 TV Lines Minimum Illumination Color (30IRE): 1.0 lux (Sens up: OFF), 0.1 lux (Sens up: 10x) at F1.4 B/W (10IRE): 0.06 lux (Sens up: OFF), 0.006 lux (Sens up: 10x) at F1.4 S/N Ratio 50 dB (AGC: OFF, Weight: ON) White Balance ATW1 / ATW2 / AWC Light Control ALC / ALC+ / ELC BLC 8 x 6 mask areas AGC ON (LOW, MID, HIGH) / OFF Electronic Shutter 1/30', 1/50', 1/60', 1/100, 1/250, 1/500, 1/1,000, 1/2,000, 1/25', 1/50, 1/60', 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 *Only for Full scanning mode 1/4,000, 1/10,000 *Only for Full scanning mode Electronic Sensitivity UP OFF / AUTO (2x / 4x / 6x / 10x) / FIX (2x / 4x / 6x / 10x / 16x / 32x) *Only for Partial scanning mode Digital Noise Reduction High / Low, 2D / 3D adaptive DNR Resolution Mode Full / Partial Black and White Mode Mode: AUTO1 / AUTO2 / EXT / ON / OFF, Level: High / Low, Wait time: 10 sec ~ 5 min Digital Zoom Up to 5x variable with digital pan/tilt. Set by setup menu or system controller. (when this zoom is used, image on the browser is also zoomed) Video Motion Detector 4 areas, Sensitivity High / Mid / Low Privacy Zone Up to 8 zone Back Focus Adjustment ABF / MANUAL, ABF mode on CL / BW switch: AUTO / PRESET / FIX Auto Image Stabilizer ON / OFF Camera Title Up to 16 characters ON / OFF OSD Setup Menu English Lens Mount CS-mount Synchronization Internal (INT), Multiplexed Vertical Drive (VD2)	
Browser GUI	Camera Control Pan / Tilt / Zoom (by digital zoom), Brightness, AUX ON/OFF Display Mode Spot, Quad: Image from 8 cameras can be displayed in 2 different Quad screens (JPEG only). 20 characters camera title available. Digital Zoom 2x, 4x, By browser 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 ON / OFF GUI / Setup Menu Language English, French English, French, Italian, Spanish, German, Russian, Chinese (Installation required except for English) System Log Up to 100 (Internal), Up to 4,000 (SD memory) error logs Supported OS Microsoft® Windows® 2000 Professional SP4, Microsoft® Windows® XP Professional/Home SP2 The language of the OS must be same as selected GUI language. Supported Browser Internet Explorer 6.0 SP2 (Windows® XP Home/Professional SP2) Internet Explorer 6.0 SP1 (Only Windows® 2000 Professional SP4)	
Network	Network IF 10Base-T / 100Base-TX, RJ45 connector Image Resolution Full Scanning mode JPEG ; 1,280 x 960, VGA (640 x 480), QVGA (320 x 240) MPEG-4 ; VGA (640 x 480), QVGA (320 x 240) Partial Scanning mode JPEG ; 960 x 720, VGA (640 x 480), QVGA (320 x 240) MPEG-4 ; 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 fps ~ 30 fps (Frame rate of JPEG will be limited when transmitting JPEG and MPEG-4 simultaneously) Audio Compression G.726 (ADPCM) 32 kbps / 64 kbps Total Bit Rate 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / 10 Mbps / Unlimited Max Bit Rate / Client (MPEG-4) 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps Supported Protocol TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP FTP Client Alarm image transfer, FTP Periodic transfer No. of Simultaneous Users 8 (Depends on network conditions) SD Memory Card (Option) Alarm REC / Backup upon network failure. Compatible SD card: Panasonic 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB model Alarm E-mail Up to 4 e-mail addresses User Registration Up to 16 users User/Host Level 3 Levels: Administrator, Camera control, Live only Security Measures User authentication (ID 32 digit, PW 32 digit), Host authentication (IP address)	
Alarm	Alarm Source VMD, Command alarm, Terminal input Alarm Actions SD memory recording/FTP image transfer, e-mail notification, Terminal output, Indication on browser, Panasonic protocol output	
Input / Output	Video Output 1.0 V [p-p] / NTSC composite 75 Ω / BNC / Multiplexed VD2 and control data capable 1.0 V [p-p] / PAL composite 75 Ω / BNC / Multiplexed VD2 and control data capable External I/O Terminals DAY/NIGHT IN x1, Alarm IN x1, Alarm OUT x1, AUX OUT x1 Microphone Built-in Microphone	
General	Safety / EMC Standard UL (6500 Edition2), FCC (Part15 ClassA), CE (EN55022, EN55024, ClassB), C-UL (E60065), DOC (ICES003 ClassA) Power Source / Consumption 24 V AC, 60 Hz 9.5 W WV-NP1000: 220 ~ 240 V AC 50 Hz 10.5 W WV-NP1004: 220 V AC 50 Hz 9.5 W Ambient Operating Temperature -10 °C ~ +50 °C (14 °F ~ 122 °F) Ambient Operating Humidity Less than 90 % (without condensation) Dimensions 84 mm x 83 mm x 197.5 mm (3-5/16" x 3-1/4" x 7-3/4") Weight Approx. 0.97 kg (2.1 lbs.)	

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.
 – SD logo is a trademark.

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/menu are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- Product pictures shown in this catalog are all NTSC models.

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