

**NTSC** WV-NW484S (24V AC, 12V DC or PoE) **PAL** WV-NW484S (24V AC, 12V DC or PoE)  
<Smoke Dome Type> <Clear Dome Type>



## Network camera rating for heavy duty use featured by *Super Dynamic III*

### Key Features

- Built-in MPEG-4 and JPEG digital signal output at VGA image size with up to 30 fps.
- MPEG-4/JPEG dual stream output for simultaneous live monitoring and high resolution recording.
- Progressive Output with motion adaptive interlace/progressive conversion allows every frame to be clear even when the object is moving.
- **Super Dynamic III** technology delivers 128x wider dynamic range compared to conventional cameras.
- High sensitivity with Day-Night function: 0.6 lux (Color), 0.08 lux (B/W) with clear dome cover.
- Adaptive Digital Noise Reduction: Selectable use of either 2D-DNR or 3D DNR ensures noise reduction in various conditions.
- 3.8 ~ 8.0mm, 2x varifocal lens with 3x digital zoom.
- Auto Back Focus (ABF) ensures easy installation and stable focus in both color and B/W modes.
- Scene Change Detection alarms when lens is covered, spray painted, removed or defocused.
- Video Motion Detector with 4 programmable detection areas and 3 sensitivity levels.
- Auto image stabilizer for applications where vibration or wind is a concern.
- Up to 32x automatic electronic sensitivity enhancement.
- SD Memory card slot for alarm recording and backup upon network failure.
- Alarm sources include Terminal input, VMD and Panasonic alarm command, and can trigger actions including SD memory recording, FTP image transfer, E-mail notification, Alarm indication, Terminal output and Panasonic protocol output.
- Built-in network interface (10Base-T / 100Base-TX).
- Power over Ethernet (PoE) IEEE 802.3af.
- Multiscreen: Images from 8 cameras can be displayed in two separate Quad screens (JPEG only)
- 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 / 2,048 / 4,096 kbps) combined with Total bit rate control (64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / 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, Polish, Russian (PAL), English, French (NTSC), (Installation required except for English).
- IP66 rated water and dust resistant. IEC60529 measuring standard compatible.
- Dehumidification device for use in various weather conditions.
- Vandal resistant mechanism for high reliability
- Three-way hinge (horizontal, vertical and swivel rotation) for easy installation
- Optional heater maintains operating temperature  $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$  ( $-22^{\circ}\text{F} \sim 122^{\circ}\text{F}$ ) even with PoE.

### Standard Accessories

• CD-ROM* ..... 1 pc.	• Mounting Bracket ..... 1 pc.
• Operating Instructions, Basic Manual ... 1 pc.	• Driver Bit ..... 1 pc.
• Label (MAC address) ..... 1 pc.	• Waterproof tape (butyl rubber tape) ... 1 pc.
The following are for installation.	
• 4-pin Alarm Cable ..... 1 pc.	* The CD-ROM contains Panasonic IP Setup Software, viewer software "Network Camera View3", and Standard Operation Manual/ Standard Setup Manual (PDF)
• RJ-45 female-female conversion connector ..... 1 pc.	

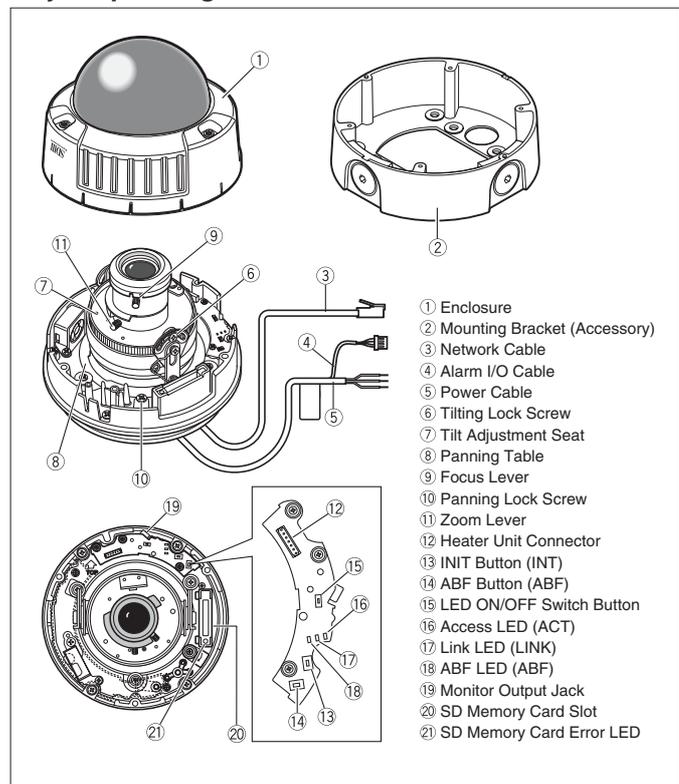
### Optional Accessories

<p>Heater Unit <b>WV-CW4H</b></p> 	<p>Embedded Ceiling Mount Bracket <b>WV-Q169</b></p> 	<p>Clear Dome Cover <b>WV-CW4C (NTSC only)</b></p>  <p>Smoke Dome Cover <b>WV-CW4S (PAL only)</b></p> 
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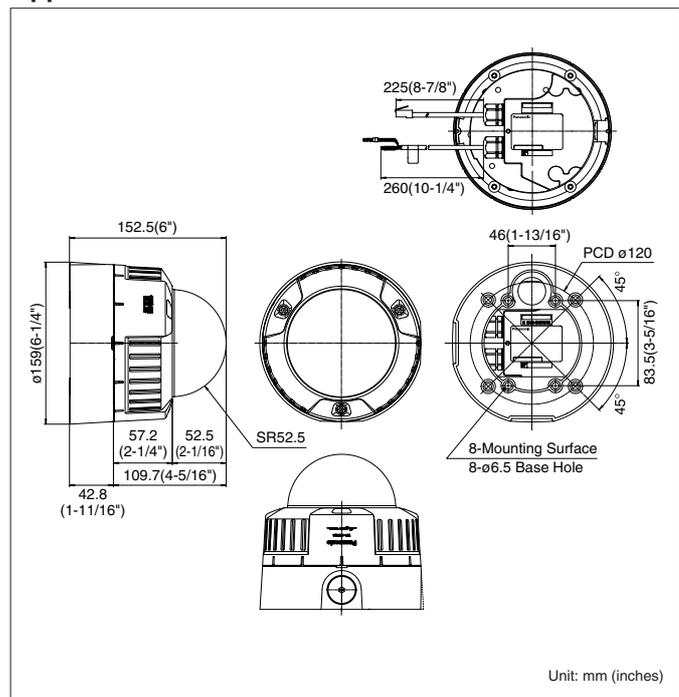
## Specifications

TV System	NTSC	PAL
<b>Camera</b>	1/3-type interline transfer CCD	
Effective Pixels	768 (H) x 494 (V)	
Scanning Mode	2:1 interlace scan (with motion adaptive interlace/progressive conversion)	
Scanning Area	4.8 (H) x 3.6 (V) mm	
Minimum Illumination	Color (30IRE): 1.5 lux (Sens up: OFF), 0.046 lux (Sens up: 32x) at F1.4 B/W (10IRE): 0.16 lux (Sens up: OFF), 0.005 lux (Sens up: 32x) at F1.4 Will be same as PAL spec with WV-CW4C optional clear dome cover	Color (30IRE): 0.6 lux (Sens up: OFF), 0.019 lux (Sens up: 32x) at F1.4 B/W (10IRE): 0.08 lux (Sens up: OFF), 0.003 lux (Sens up: 32x) 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	ALC	
AGC	ON (LOW) / ON (MID) / ON (HIGH) / OFF	
Super Dynamic III	ON or OFF (with BLC masking)	
Dynamic Range	52 dB typical (Super Dynamic III: ON, Shutter speed: OFF)	
Electronic Shutter	OFF (1/60), AUTO, 1/100	
Electronic Sensitivity UP	OFF / AUTO (2x, 4x, 6x, 10x, 16x, 32x)	
Digital Noise Reduction	High / Low	
Black and White Mode	Mode: AUTO1 / AUTO2 / ON / OFF, Level: High / Low, with external control	
Digital Zoom	Up to 3x with Digital PAN/TILT	
Video Motion Detector	Mode1 (Motion): 4 areas, Sensitivity: 3 levels / Mode2 (Scene): OFF, Auto suspend 2, 5, 10, 30 sec.	
Privacy Zone	Up to 8 zones, Gray/Mosaic	
Up Side Down	ON / OFF	
Auto Image Stabilizer	ON / OFF	
Camera Title	Up to 16 characters (alphanumeric characters, marks)	
Lens Mount	CS-mount	
Back Focus Adjustment	ABF/MANUAL, ABF mode upon CL/BW switching: AUTO / PRESET / FIX	
<b>Lens</b>	Focal Length: 3.8 - 8.0 mm, 2x varifocal	
Angular Field of View	H: 35.6° (TELE) - 73.6° (WIDE) V: 26.6° (TELE) - 53.4° (WIDE)	
Maximum Aperture Ratio	1:1.4 (WIDE) 1:1.8 (Tele)	
Min. Object Distance	1.2 m (3.9 ft)	
<b>Pan and Tilt</b>	Panning Range: ±175° Tilting Range: ±75°	
<b>Browser GUI</b>	Camera Control: Iris Display Mode: Image from 8 cameras can be displayed in 2 different Quad screens (JPEG only). 20 characters camera title available. SD Memory Data Download: Images recorded in the SD memory card can be downloaded. Clock Display: Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual) Alarm Control: Reset, Suspend GUI/Setup Menu Language: English, French, Italian, Spanish, German, Polish, Russian (Installation required except for English.) System Log: Alarm log, FTP error log (SD memory required) Supported OS: Microsoft Windows® 2000 Professional SP4, Microsoft Windows® XP Professional/Home SP2 English, French, Italian, Spanish, German Supported Browser: Internet Explorer 7.0 Internet Explorer 6.0 SP2 (Windows® XP Home/Professional SP2) Internet Explorer 6.0 SP1 (Only Windows® 2000 Professional SP4)	
<b>Network</b>	Network IF: 10Base-T / 100Base-TX, RJ45 connector Image Resolution: 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/JPEG dual streaming and JPEG multi-resolution supported. Image Refresh Rate (JPEG): 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max. rate will be 5 ips-VGA, 10 ips-QVGA when transmitting JPEG and MPEG-4 simultaneously) Total Bit Rate: 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited Max. Bit Rate/Client (MPEG-4): 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps Supported Protocol: TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP FTP Client: Alarm image transfer, Periodic image transfer No. of Simultaneous Users: Up to 8 users SD Memory Card (Option): Alarm REC/Backup upon network failure. Compatible SD card: Panasonic 64MB, 128MB, 256MB, 512MB, 1GB, 2GB model. SDHC standard card not supported. Alarm E-mail: Yes User Registration: Up to 16 users User Level: 3 Levels: Administrator, Camera control, Live only Security Method: User authentication (ID and Password), Host authentication (IP address)	
<b>Alarm</b>	Alarm Source: VMD, Command alarm, Terminal input Alarm Actions: SD memory recording, E-mail notification, Indication on browser, FTP image transfer, Panasonic protocol output	
<b>Input/Output</b>	EXT. Input/Output: ALARM input, ALARM output/Black and White Mode input, AUX output Monitor Output: 1.0 V [p-p] / 75 Ω, NTSC composite, RCA jack   1.0 V [p-p] / 75 Ω, PAL composite, RCA jack	
<b>General</b>	Safety/EMC Standard: UL (6500 Edition2), FCC (Part15 ClassA), CE (EN55022, EN55024, ClassB), C-UL (E60065), DOC (ICES003 ClassA), GOST (R 51558) Power Source: 24 V AC, 60 Hz / 12 V DC / PoE (IEEE802.3af)   24 V AC, 50 Hz / 12 V DC / PoE (IEEE802.3af) Power Consumption: 16 W (24 V AC) / 920 mA (12 V DC) / 12 W (PoE Class 0) with Optional Heater Ambient Operating Temperature: -10 °C ~ +50 °C (14 °F ~ 122 °F), -30 °C ~ +50 °C (-22 °F ~ 122 °F) with Optional Heater (24 V AC/PoE) Ambient Operating Humidity: 90 % or less (without condensation) Water and Dust Resistance: IP66 rated water and dust resistant. IEC60529 measuring standard compatible. Dimensions: ø159 mm x 153 mm (H) (6-1/4" x 6-1/32") Weight: approx. 1.9 kg (4.18 lbs.) (with Mounting Bracket)	

## Major Operating Controls & Terminals



## 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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