



OUR NEW BROADBAND CAPABLE AND SURVEILLANCE FEATURE-PACKED COLOUR DOME CAMERAS

The new Panasonic WV-NS320 Series can be connected to both analogue and digital networks. Colour camera, zoom lens, pan and tilt mechanisms are all combined in a single compact unit. When this camera is connected to an Ethernet network, you can operate it and monitor its images from a personal computer. Or, you can use it with an analogue colour composite signal as part of your existing surveillance systems using coaxial cable. With input from a motion detector or external sensor, it can automatically store images and attach them to e-mail or control external devices to turn on lights or start surveillance recording. Combining a 10x zoom lens with 5x digital zoom, it can zoom in for up to 50x close-ups. It operates in lighting as low as 1.0 lux and can pan a full 360°. The Flip-A-Chip feature makes it easy to capture subjects passing directly below the camera, the image-hold feature prevents blurring when the camera moves, and pre-set positions simplify operation.

Superb specifications and a host of convenience features make the WV-NS320 Series ideal for bank branch, franchise outlet or other network surveillance applications.

KEY FEATURES

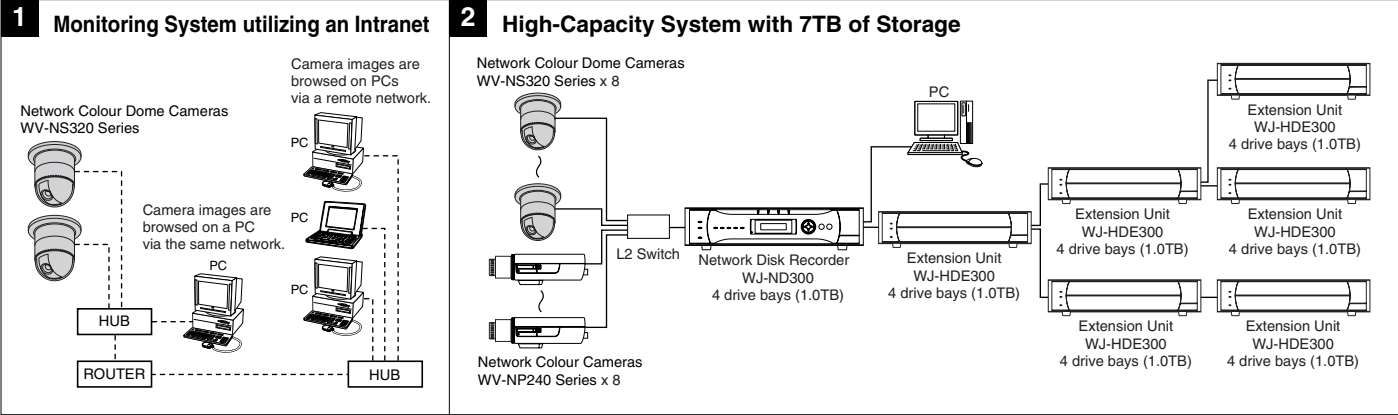
- Compact dome designed all-in-one unit colour surveillance camera.
- Both analogue video output and digital Ethernet port are available.
- Built-in network interface (10Base-T/100Base-TX) for remote monitoring by PC simply. (Internet interface protocol; TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, DDNS, DHCP, NTP and BOOTP)
- Built-in Alarm function for external security devices, and FTP alarm activation.
- JPEG / MJPEG image size : 752 x 568, 752 x 280, 368 x 280 and 176 x 136
- 1/4-type CCD colour image sensor with 752H x 582V pixels.
- 480-line of horizontal resolution.
- Min. illumination of 1.0 lux (at AGC High).
- Built-in Flip-A-Chip function.
- Image hold function during panning.
- 360° endless panning range.
- Auto panning with rotation speed of 100°/s.
- 10x optical zoom (4.2 - 42mm at F1.4) plus 5x electronic digital zoom lens provided (total zoom capacity of 50x).
- Auto focus lens mechanism.
- Alarm input/output terminal connectors
- Built-in digital motion detector.
- Built-in alphanumeric character display.
- Electronic sensitivity enhancement (Auto; up to 10x, Manual; up to 32x, and Off)
- Digital signal processing LSI's for high quality pictures : 2H vertical enhancement, Chroma gain, Pedestal, Hue and Noise reduction circuit.
- Multiplexed Vertical Drive (VD2) sync capability with Panasonic system products.

OPTIONAL ACCESSORIES

Smoke Cover
WV-CS2S
 Mirror Cover
WV-CS2M



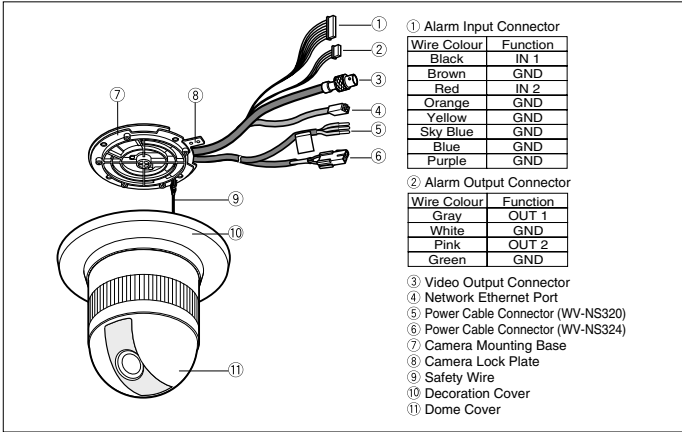
SYSTEM EXAMPLES



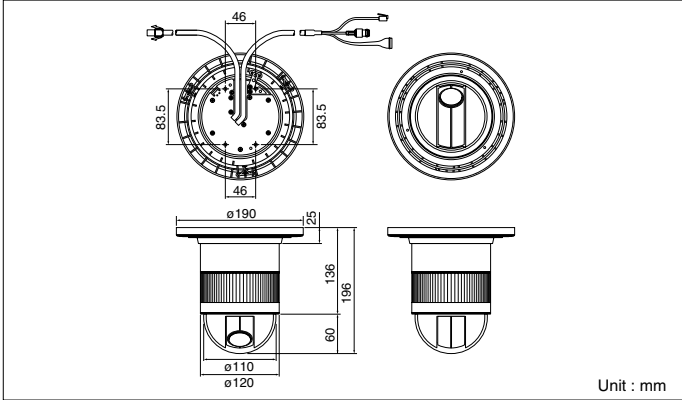
SPECIFICATIONS PAL

| Model No. | WV-NS320 | | WV-NS324 |
|-------------------------------|--|---------------------------------|----------|
| Pick-up Device | 752 (H) x 582 (V) | | |
| Scanning Area | 3.57mm (H) x 2.67mm (V), 1/4-type CCD image sensor | | |
| Synchronization | Internal/Line-Lock/Multiplexed Vertical Drive (VD2) | | |
| Scanning | 625 lines/50 fields/25 frames | | |
| Scanning System | 2 : 1 interlace | | |
| Video Output | VBS1.0V[p-p]/75Ω, composite signal | | |
| Resolution | H | more than 480 lines (at centre) | |
| | V | more than 400 lines (at centre) | |
| Minimum Illumination | 1.0 lux at F1.4 (at AGC High) | | |
| Signal to Noise Ratio | 50dB (AGC OFF, Weight On) | | |
| AGC | On (Low, Mid, High)/Off | | |
| Title Display | On/Off | | |
| Motion Detector | On/Off | | |
| Flip-A-Chip Function | On/Off | | |
| BLC | Selectable On/Off | | |
| Set Up | Max. 4 times, Auto/Fix | | |
| Alarm Input | 2 Inputs (Alarm In 1-2) | | |
| Alarm Output | 2 Outputs (Alarm/Aux) | | |
| Electronic Shutter | Off (1/50), 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s | | |
| Network Section | | | |
| Image Resolution | 752 x 568, 752 x 280, 368 x 280, and 176 x 136 | | |
| Image Process | JPEG / MJPEG | | |
| Image Refresh Rate | Fast/Middle/Slow/Very Slow | | |
| Traffic Control | 32/64/128/256/512/1,024 kbps and unlimited | | |
| Internet Protocol | TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, DDNS, DHCP, NTP and BOOTP | | |
| Zoom Ratio | 10x Optical plus 5x digital zoom (50x total) | | |
| Max. Aperture Ratio | 1 : 1.4 (Wide) ~ 2.0 (Tele) | | |
| Focal Length | 4.2 ~ 42mm | | |
| Angular Field of View | H | 4.9° ~ 47° | |
| | V | 3.7° ~ 36° | |
| Zoom Speed | approx. 3.9s (Tele/Wide) in manual mode | | |
| Focus Speed | approx. 3.0s (Far / Near) in manual mode | | |
| Iris | Automatic (open/close)/manual | | |
| Panning Range | 360° endless | | |
| Panning Angle Setting | Possible (in auto-pan mode) | | |
| Panning Mode | Manual/auto pan | | |
| Panning Speed | Manual: approx. 1.0°/s ~ 100°/s Preset position: max. 100°/s | | |
| Tilting Range | 0° ~ 92° | | |
| Tilting Mode | Manual | | |
| Tilting Speed | Manual: approx. 1.0°/s ~ 100°/s Preset position: max. 100°/s | | |
| Controls | Pan/tilt, lens, preset position, home position | | |
| Controller I/F | Multiplex-Coaxial | | |
| Power Supply | 220V - 240V AC, 50Hz | 24V AC, 50Hz | |
| Power Consumption | 16W | 15W | |
| Ambient Operating Temperature | -10°C ~ +50°C | | |
| Ambient Operating Humidity | Less than 90% | | |
| Dimensions | ø120 (D) x 196 (H) mm (ø110mm diameter dome size) | | |
| Weight | Approx. 2kg | | |

MAJOR OPERATING CONTROLS



APPEARANCE



Frame Rate Chart

| Image Resolution | Mode | Super Fine (1/6) | | | Fine (1/8) | | | Normal (1/10) | | | Extended (1/12) | | |
|-------------------|-------|------------------|-----|-----|------------|----|-----|---------------|----|-----|-----------------|----|-----|
| | | Mbps | kB | ips | Mbps | kB | ips | Mbps | kB | ips | Mbps | kB | ips |
| 752 x 568 (frame) | JPEG | 4.0 | 100 | 5 | 3.9 | 69 | 7 | 3.6 | 56 | 8 | 3.7 | 52 | 9 |
| | MJPEG | 5.6 | 100 | 7 | 5.5 | 69 | 10 | 5.4 | 56 | 12 | 5.0 | 52 | 12 |
| 752 x 280 (field) | JPEG | 2.6 | 46 | 7 | 2.5 | 35 | 9 | 2.1 | 29 | 9 | 1.9 | 26 | 9 |
| | MJPEG | 5.5 | 46 | 15 | 5.9 | 35 | 21 | 5.8 | 29 | 25 | 5.2 | 26 | 25 |
| 368 x 280 (field) | JPEG | 2.9 | 23 | 16 | 2.4 | 18 | 17 | 2.5 | 15 | 21 | 2.5 | 15 | 21 |
| | MJPEG | 4.6 | 23 | 25 | 3.6 | 18 | 25 | 3.4 | 15 | 25 | 3.0 | 15 | 25 |
| 176 x 136 (field) | JPEG | 2.6 | 20 | 16 | 2.7 | 16 | 21 | 2.2 | 13 | 21 | 2.2 | 12 | 23 |
| | MJPEG | 4.0 | 20 | 25 | 3.2 | 16 | 25 | 2.6 | 13 | 25 | 2.4 | 12 | 25 |

(above all figures are approximate, actual figures may differ depending on the network under the conditions.)

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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/menu are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

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