



## 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.

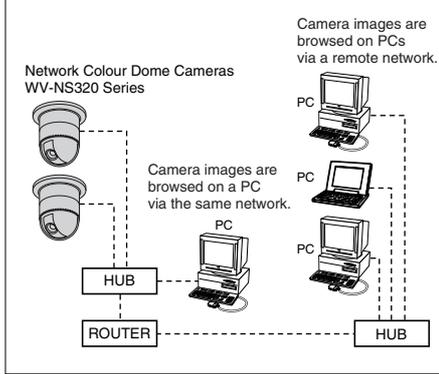
OPTIONAL ACCESSORIES	
Smoke Cover	
<b>WV-CS2S</b>	
Mirror Cover	
<b>WV-CS2M</b>	

### KEY FEATURES

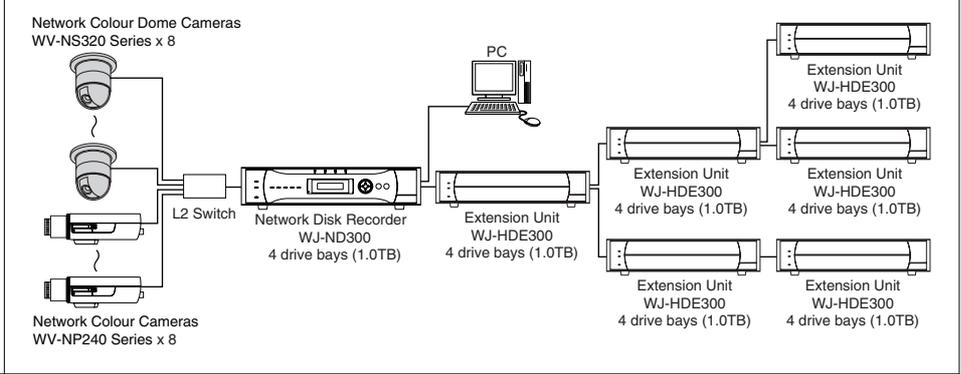
- Compact dome designed all-in-one unit colour surveillance camera.
- Both analogue video output and digital Ethernet port are available.
- Built-in network interface (10Base-T/100Base-TX) for remote monitoring by PC simply. (Internet interface protocol; TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, DDNS, DHCP, 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.

# SYSTEM EXAMPLES

## 1 Monitoring System utilizing an Intranet



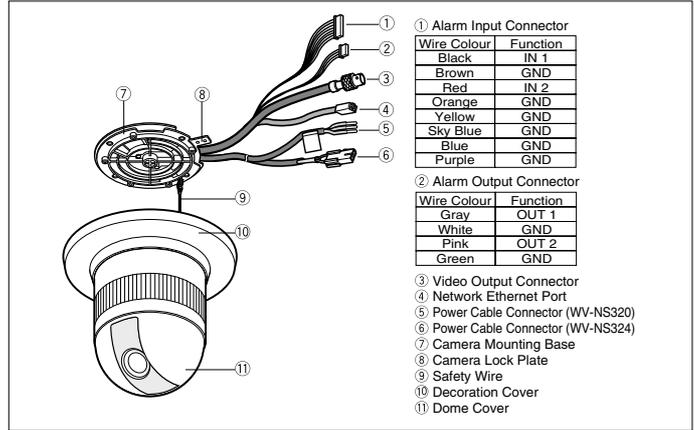
## 2 High-Capacity System with 7TB of Storage



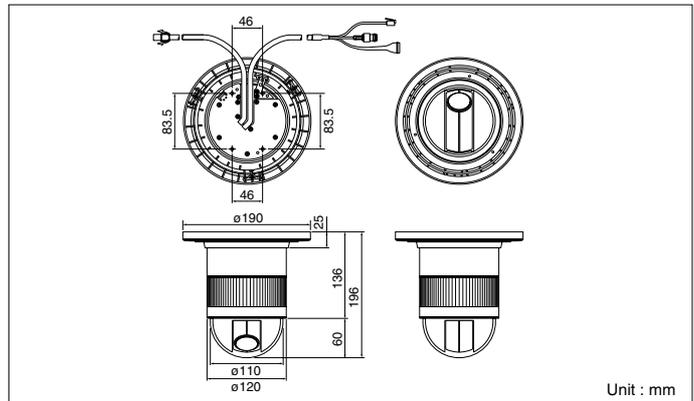
### SPECIFICATIONS [PAL]

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