Panasonic ideas for life





Network Color Dome Camera with MPEG-4 & JPEG Dual Streaming, PoE (Power over Ethernet), 3.6x Variable-Focal Lens

The new Panasonic WV-NF284 is the newest addition to the Panasonic **i-Pro** Series lineup, a compact, stylish network color dome camera with MPEG-4 & JPEG dual streaming. Select JPEG or MPEG-4 only, and this camera can transmit VGA (640 x 480) images at up to 30 fps. Or using both combines seamless video monitoring of MPEG-4 with high resolution JPEG recording. The 1/4-type progressive scan CCD captures moving subjects with minimal blurring, and multicast (MPEG-4 only) is also supported.

Additional features include the 3.6x variable-focal lens (2.8 -10mm) that operates in light as low as 1.5 lux (0.15 fc). Power over Ethernet (PoE) IEEE802.3af supplies power and transmits images over the same LAN cable. A high-sensitivity microphone is built-in.

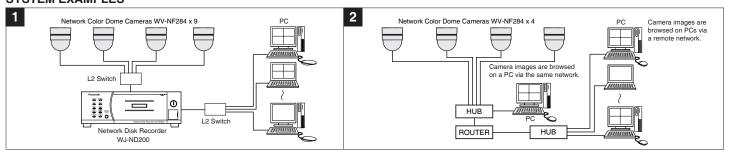
When the camera is connected to an optional **i-Pro** Series Network Disk Recorder, images backed up on the optional SD memory card (during network failure) will be automatically transmitted to the recorder when the network is restored. Additional features include Digital Motion Detection which allows users to program a system to record images automatically.

Reliable performance and easy set-up make the WV-NF284 the ideal network camera for school, transit, warehouse, mall and town security.

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. (See the Frame Rate Chart for details.)
- 3.6x variable-focal lens (2.8 10mm).
- Power over Ethernet (PoE) IEEE 802.3af.
- Progressive scan type CCD image sensor.
- Internet Protocol: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DHCP, DNS, DDNS, NTP and SNMP.
- Image refresh rate: 0.1 fps 30 fps.
- Bandwidth control: 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps and unlimited.
- Built-in network interface (10Base-T / 100Base-TX) for remote monitoring by PC.
- Sensitivity of 1.5 lux (0.15 fc) at F1.4 with clear dome cover.
- Built-in SD Memory card slot for FTP backup.
- Multi screen display (4 screens x 2 groups).
- Built-in Alarm function for external security devices.
- Built-in digital motion detector.
- Built-in electronic zoom function (1x, 1.5x, 2x, 2.5x and 3x).
- Automatic electronic sensitivity enhancement.
- Built-in microphone (G.726).
- \bullet The 3-dimensional hinge (Pan, Tilt and Azimuth) makes adjustments easy.

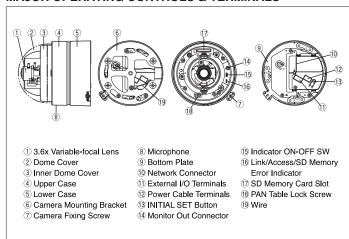
SYSTEM EXAMPLES



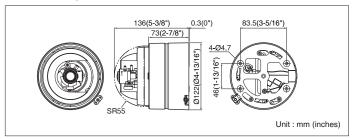
SPECIFICATIONS

SPECIFICATION	13							
Camera Section								
Pick Up Device		1/4-type progressive scan CCD sensor						
Effective Pixels		659 (H) x 494 (V) Progressive scan						
Scan Mode		Progressive scan						
Scanning Area		3.59 (H) x 2.70 (V) mm						
Minimum Illumination		1.5 lux (0.15 fc) with clear dome cover (Tentative)						
		0.19 lux (0.019 fc): at the time of Electronic Sensitivity Up function is 8x. (Tentative)						
AGC		Always ON						
Electronic Shutter		AUTO						
Electronic Sensitivity Up)	OFF, AUTO (2x, 4x, 8x,16x)						
White Balance		AUTO / HOLD						
Electronic Zoom		1x, 1.5x, 2x, 2.5x, 3x						
Title Display		20 alphanumeric characters (Only a browser)						
Motion Detector		On/Off Selectable, 1~4 areas, Sensitivity: High/Middle/Low						
Back Focus Adjustment		Manual						
Lens								
Туре		3.6x variable focal lens						
Focal Length		2.8 ~ 10 mm						
Angular Field of View		H: 20.8° (TELE) ~ 73.5° (WIDE)						
•		V: 15.6° (TELE) ~ 54.4° (WIDE)						
Aperture Ratio		1 : 1.3 (WIDE)						
Min. Object Distance		1.2 m						
Analog Output Section		112 111						
Signal		NTSC						
Monitor Output		VBS 1.0 V [p-p] / 75 Ω, composite signal, ø3.5mm mini jack						
Network Section		The first (p.p.) from a composite digital, potential familia justice.						
Network		10Base-T / 100Base-TX, RJ45 connector for PoE						
	PEG	VGA (640 x 480), QVGA (320 x 240) max. 30 fps						
_	IPEG-4	VGA (640 x 480), QVGA (320 x 240) max. 30 fps						
Image Compression J		(Super Fine: 0 / Fine: 1~4 / Normal: 5~8 / Low: 9) selectable, Pull/Push mode						
	IPEG-4							
Image Refresh Rate	II LO T	0.1 fps ~ 30 fps						
image riencon riale		(JPEG and MPEG-4 have a limit of a JPEG frame rate at the time of						
		simultaneous movement)						
Audio Compression Me	thod	G.726 (ADPCM) 32 kbps/16 kbps Selectable						
Traffic Control	iiiou	G. /26 (ADPCM) 32 kbps/16 kbps Selectable 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps and unlimited						
Internet Protocol								
		TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP						
OS Applicable Province		Windows 2000 Professional SP4, Windows XP Home/Professional SP2						
Applicable Browser		Internet Explorer 6.0 SP2 (Windows XP Home/Professional SP2)						
ETD Olit		Internet Explorer 6.0 SP1 (Only Windows 2000 Professional SP4)						
FTP Client		Alarm image transfer, FTP periodic transfer						
Multi Screen		8 screens (4 screens x 2 group)						
Controller I/F		Ethernet						
SD Memory Card		64MB, 128MB, 256MB, 512MB, 1GB and 2GB						
		Panasonic SD Memory Card is recommended						
External Input Terminals		Alarm input x1/Alarm output x1, AUX output x1						
Power Supply Power Terminal		24 V AC, 60 Hz,12 V DC						
Power over		36 ~ 57 V DC (Class2 Powered Device in PoE)						
(IEEE802	.3af)							
Power Consumption		24 V AC 4.2 W, 12 V DC 350 mA (approx.), PoE 4.2 W (approx.) (Tentative)						
Ambient Operating Tempe		-10 °C ~ +50 °C (14 °F ~ 122 °F)						
Ambient Operating Hum	idity	Less than 90 %						
Dimensions (D x H)		ø122 mm x 136 mm (ø4-13/16" x 5-3/8")						
Weight		Approx. 650 g (1.43 lbs.) (Tentative)						

MAJOR OPERATING CONTROLS & TERMINALS



APPEARANCE



Frame Rate Chart

JPEG		Image Settings									
Image Resolution	Mode	O Super Fine	1 Fine	2	3	4	5 Normal	6	7	8	9 Low
VGA (640 x 480)	Image Size (KB)	128	96	80	64	56	48	40	32	28	24
	Frame Rate (fps)	10	14	17	21	24	30	30	30	30	30
	Bit Rate (Mbps)	10.2	10.8	10.9	10.8	10.8	11.5	9.6	7.7	6.7	5.8
QVGA (320 x 240)	Image Size (KB)	44	40	36	32	28	24	20	16	14	12
	Frame Rate (fps)	26	28	30	30	30	30	30	30	30	30
	Bit Rate (Mbps)	9.2	9.0	8.6	7.7	6.7	5.8	4.8	3.8	3.4	2.9
MPEG-4 Bit Pate Settings								1			

MPEG-4		MPEG-4 Bit Rate Settings									1
Image Resolution	Mode	4,096 kbps	3,072 kbps	2,048 kbps	1,536 kbps	1,024 kbps	512 kbps	256 kbps	128 kbps	64 kbps	
VGA (640 x 480)	Low	30	30	30	25	22	10	5	2	1	1
	Normal	30	30	30	22	14	8	3	1	0.4	1
	Fine	27	22	19	13	9	4	1.5	0.5	0.2]
QVGA (320 x 240)	Low	30	30	30	30	30	28	24	10	4	1
	Normal	30	30	30	29	28	24	12	4	1.5	
	Fine	30	28	28	28	27	12	5	2	0.5	(fps)

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

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- 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.

Panasonic

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