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.

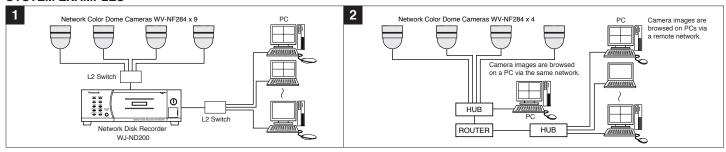
When the camera is connected to an optional **i-Pro** Series Network Disk Recorder, images backed up on the optional SD memory card (during network failure) will be automatically transmitted to the recorder when the network is restored. Additional features include Digital Motion Detection which allows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

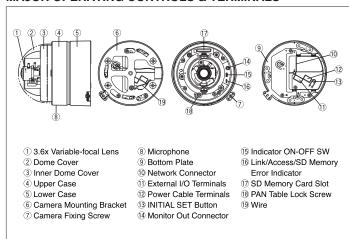
SYSTEM EXAMPLES



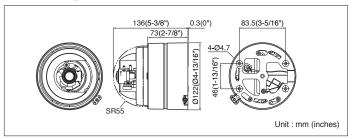
SPECIFICATIONS

SPECIFICATIO	143								
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 U	р	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 Adjustmen	t	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		_ 							
Signal		NTSC							
Monitor Output		VBS 1.0 V [p-p] / 75 Ω, composite signal, ø3.5mm mini jack							
Network Section		··- · [F F] · · · ·- · · · · · · · · · · · · · · ·							
Network		10Base-T / 100Base-TX, RJ45 connector for PoE							
	JPEG	VGA (640 x 480), QVGA (320 x 240) max. 30 fps							
	MPEG-4	VGA (640 x 480), QVGA (320 x 240) max. 30 fps							
Image Compression		(Super Fine: 0 / Fine: 1~4 / Normal: 5~8 / Low: 9) selectable, Pull/Push mode							
	MPEG-4	Image Quality (Fine / Normal / Low) selectable, unicast / multicast							
Image Refresh Rate	WII LO 4	0.1 fps ~ 30 fps							
inage Hencon Hate		(JPEG and MPEG-4 have a limit of a JPEG frame rate at the time of							
		(JPEG and MPEG-4 have a limit of a JPEG frame rate at the time of simultaneous movement)							
Audio Compression M	othod	G.726 (ADPCM) 32 kbps/16 kbps Selectable							
Traffic Control	otriou	G. 726 (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 Provens		Windows 2000 Professional SP4, Windows XP Home/Professional SP2 Internet Explorer 6.0 SP2 (Windows XP Home/Professional SP2)							
Applicable Browser									
FTP Client		Internet Explorer 6.0 SP1 (Only Windows 2000 Professional SP4)							
		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 Terminal		Alarm input x1/Alarm output x1, AUX output x1							
Power Supply Power Te		24 V AC, 60 Hz,12 V DC							
	r Ethernet	36 ~ 57 V DC (Class2 Powered Device in PoE)							
(IEEE80	2.3af)								
Power Consumption		24 V AC 4.2 W, 12 V DC 350 mA (approx.), PoE 4.2 W (approx.) (Tentative)							
Ambient Operating Temp		−10 °C ~ +50 °C (14 °F ~ 122 °F)							
Ambient Operating Hu	midity	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
MDEC 4											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.

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