Panasonic ideas for life

Super Dynamic III Weather Resistant Dome Network Camera WV-NW960 Series

NTSC WV-NW964 (24 V AC) PAL WV-NW960 (220 ~ 240 V AC) WV-NW964 (24 V AC)















Weather Resistant Dome Network Camera featuring 30x zoom and Super Dynamic III

Key Features

- Super Dynamic III technology delivers 128x wider dynamic range compared to conventional cameras.
- High sensitivity with Day-Night function: 0.5 lux (Color) at F1.4 (WIDE), 0.04 lux (B/W) at F1.4 (WIDE). IR cut filter switches on and off to ensure optimal picture quality in both color and B/W.
- Adaptive Digital Noise Reduction: 2D-DNR and 3D-DNR integration ensures reduced noise and motion blur in various conditions.
- Electronic sensitivity enhancement: Auto (Up to 32x) / OFF
- 30x zoom lens: 3.8 mm ~ 114 mm (approx. 300x with digital zoom).
- Pan/Tilt speed of max. 400°/s at preset mode and 0.065°/s super fine control at manual mode
- · Auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- Built-in Video Motion Detector with 4 programmable detection areas and 6 sensitivity levels
- Scene Change Detection alarms when lens is covered, spray painted, removed or defocused.
- Various I/O terminals: ALARM IN 1 / BW IN, ALARM IN 2 / ALARM OUT, ALARM IN 3 / AUX OUT
- Alarm sources include Terminal 1 ~ 3. VMD and Panasonic alarm command. Alarm actions include Preset positions 1 ~ 256. PATROL 1 ~ 4. SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Terminal output, Panasonic protocol output and Auto track.
- Auto image stabilizer for applications where vibration or wind is a concern
- Camera title display: 16 alphanumerics OSD and 20 alphanumerics on the browser
- Digital Slip-ring Transmission: The high speed digital video signal supplied by the Super Dynamic III DSP travels through the compact slip-ring without any DA/AD conversion process preventing image quality loss.
- Built-in MPEG-4/JPEG digital signal output at VGA image size with up to 30 ips
- MPEG-4 and JPEG dual stream output for simultaneous live monitoring and high resolution recording
- Progressive output with motion adaptive interlace/progressive conversion allows every image to be clear even when the object is moving.
- PTZ control can be made on the user-friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control. 256 speeds available for system with WV-CU950 system controller.

- 360° map shot: 8 thumbnail images at 45° intervals make it simple to direct the camera by clicking on a thumbnail.
- Multiscreen: Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).
- FTP client function enables periodic image data transfer or transfer upon alarm.
- Alarm notification via e-mail
- Full duplex 2-way audio allows interactive communication between camera site and monitoring site.
- · Alarm log, Manual REC log, FTP error log saved in the SD memory card is displayed on the browser GUI and can be downloaded to the client PC. Playback or Image data download through the log is also available.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL), English, French (NTSC), (Installation required except for English).
- SD memory card slot for Manual recording, Alarm recording and Backup upon network failure
- Scheduling function for Alarm / VMD / Access permission, Preset position call and Position refresh
- IP66 rated water and dust resistant. IEC60529 measuring standard compatible.
- Built-in fan/heater/sun shield for temperature changes of -40 °C ~ +50 °C (-40 °F ~ +122 °F).

Standard Accessories

· Operating Instructions ... • CD-ROM The IP setup software, the viewer software

and the network operating instructions (PDF) are included on the CD-ROM.

The following items are for installation.

- 8P Alarm Cable...
- Connector for 24 V AC (only for WV-NW964) 1 pc. Front/rear sun shield 1 set
- Front/rear sun shield mounting screws
- 2 pcs. (*one screw is a spare)
- · Waterproof cap. . 3 pcs.
- RJ-45 junction connector

Optional Accessory

Wall Mount Bracket

WV-Q122



This catalog is provided for all over the world Some accessories may not be available in some countries

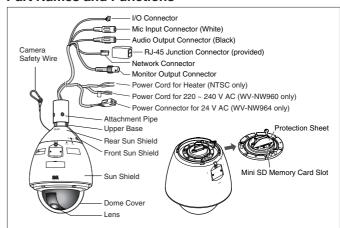
Specifications

TV Systen	n	NTSC	PAL	
Camera	Image Sensor	1/4-type interline transfer CCD		
	Effective Pixels	768 (H) x 494 (V)		
	Scanning Mode		tive interlace/progressive conversion	
	Scanning Area	2:1 interlace scan (with motion adaptive interlace/progressive conversion) 3.59 (H) x 2.70 (V) mm		
	Minimum Illumination			
	Willimum illumination	Color (30IRE): 0.5 lux (Sens up: OFF), 0.02 lux (Sens up: 32x) at F1.4		
	14# 12 D 1	B/W (10IRE): 0.04 lux (Sens up: OFF), 0.0013 lux (Sens up: 32x) at F1.4		
	White Balance	AWC (2,000 ~ 10,000 K), ATW1 (2,70		
	Light Control	Automatic integration of ALC/EL	.C	
	AGC	ON (LOW, MID, HIGH) / OFF		
	Super Dynamic III	ON / OFF (With BLC masking 8 x 6 areas)		
	Dynamic Range	52 dB typical (Super Dynamic III: ON, Shutter speed: OFF)		
	Electronic Shutter	OFF (1/60), AUTO, 1/100		
	Electronic Sensitivity UP			
	Digital Noise Reduction	High/Low, 2D/3D adaptive DNR		
	Black and White Mode	ON / OFF / Auto (High / Low), Wait time: 10 sec. ~ 5 min.		
	Digital Zoom	Up to 10x		
	Video Motion Detection	For preset position: 4 programable detection areas, Sensitivity: 6 steps		
		Non-preset position: Detects entire screen except clock area, Sensitivity: 6 steps		
	Privacy Zone	Up to 8 zones, Gray / Mosaic		
	Auto Image Stabilizer	ON / OFF		
	Camera Title (OSD)	Up to 16 characters (alphanumeric characters, marks)		
	Auto Focus	AUTO		
Lens Pan and	Focal Length	3.8 mm ~ 114 mm, 30x Zoom, 300x with 10x digital zoom.		
	Zoom Speed	Manual: Approx. 6 sec. (WIDE ~ TELE) Preset: Approx. 2 sec. (WIDE ~ TELE		
	Angular Field of View	H: 1.9° (TELE) ~ 52.0° (WIDE), V: 1.4° (TELE) ~ 40.0° (WIDE)		
	Maximum Aperture Ratio	1 : 1.4 (WIDE) ~ 3.7 (TELE)		
	Focusing Range	1.5 m ~ ∞		
	Aperture Range	F1.4 ~ 22, Close		
	Panning Range	360° endless		
Pan and Tilt				
	Panning Speed	Manual: Approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller		
		Preset: up to approx.400°/s		
	Tilting Range	-5° ~ 185° (upward-level-downward) $$ Tilting angle limit: 0° / -1° / -2° / -3° / -4° / -5		
	Tilting Speed	Manual: Approx.0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller)		
		Preset: up to approx.400°/s		
	Proportional Pan/Tilt Control			
	Number of Preset Positions	256		
	Auto Mode	OFF / preset sequence / auto pa	an / auto track / patrol	
	Auto Track	OFF / preset sequence / auto pan / auto track / patrol Standard Auto track		
	Patrol	1/2/3/4		
	Image Hold	ON / OFF		
	Digital Flip	Yes		
	PTZ Position Display	ON / OFF		
	Preset Position Setting	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area		
	Map Shot	360° map shot / preset map shot		
Browser	Camera Control	Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom,		
GUI		Iris, Preset position call and program, Auto mode.		
	Display Mode			
	Display Wode	Image from 16 cameras can be displayed in		
		4 different Quad screens or 16-screen (JPEG only).		
	Camera Title	Up to 20 alphanumeric characters		
	SD Memory Data Download	Images recorded in the SD memory card can be downloaded.		
	Clock Display	Time: 12H / 24H, Date: 5 formats or	the browser, Summer time (Manua	
	Alarm Control	Reset	~	
	GUI / Setup Menu	English, French	English, French, Italian, Spanish	
	l '	-		
	Language	(Installation required for French)		
			required except for English)	
	System Log	Alarm log, Manual REC log, FTF		
	Supported OS	Microsoft® Windows® XP Professional/Home SP2,		
		Microsoft® Windows Vista		
		The language of the OS must be same as selected GUI language Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 6.0 SI		
	Supported Browser			
Network	Capported DioMagi			
	Natural IF	Microsoft® Internet Explorer® 6.0 SP1 (Only with Windows 2000 Professional SP4)		
	Network IF	10Base-T / 100Base-TX, RJ-45 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 and JPEG dual streaming and JPEG multi-resolution supported.		
	Image Refresh Rate			
	maye nellesii hale	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)		
	Audio Compression	G.726 (ADPCM) 32 kbps / 16 kbps		
	Audio Mode	OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)		
	Authentication for Audio	Level 1 only / Level 2 higher / All users		
	Total Bit Rate	64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited		
	Max Bit Rate /	64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps		
	Client (MPEG-4)	or Frame rate priority (4,096 kbps / Unlimited)		
	Supported Protocol	${\sf TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP, SNMP, S$		
	FTP Client	Alarm image transfer, Periodic image transfer		
	No. of Simultaneous Users	Up to 8 users		
	Mini SD Memory Card			
	1	Manual REC / Alarm REC / Backup upon network failure.		
	(Option)	Compatible SD card: Panasonic mini SD card: 64 MB, 128 MB, 256 MB,		
		512 MB, 1 GB, 2 GB model. SDHC standard card not supported.		
	Alarm E-mail	Yes, Port number assignable.		

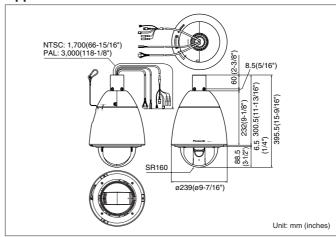
Up to 16 users

TV System		NTSC	PAL	
Network	User/Host Level	3 Levels: Administrator, Camera control, Live only		
	Security Measures	User authentication (ID 32 digit, PW 32 digit), Host authentication (IP address)		
Alarm	Alarm Source	3x Terminal inputs, VMD, Command alarm		
	Alarm Actions	Preset position 1 ~ 256, PATROL 1 ~ 4, SD memory recording,		
		FTP image transfer, e-mail notification, Indication on browser,		
		Terminal output, Panasonic protocol output, Auto track		
	Alarm Log	With SD memory card: 5,000 logs, Without SD memory card: 1,000 logs		
	Schedule	Alarm / VMD / Access permission, Preset position call, Position refresh		
Input /	Monitor Output	1.0 V [P-P] / 75 Ω, NTSC composite, BNC 1.0 V [P-P] / 75 Ω, PAL composite, BNC		
Output	Microphone Input	MIC IN (Applicable microphone; Plug-in power type)		
		Supply voltage: 2.5 V \pm 0.5 V Input impedance: 3 K Ω \pm 10%		
	Audio Output	AUDIO OUT ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	ALARM IN 1 / BW IN, ALARM IN 2 / ALARM OUT, ALARM IN 3 / AUX OUT		
General	Safety / EMC Standard	UL (6500 Edition 2),	CE (EN60065, EN55022,	
		FCC (Part15 ClassA), C-UL (E60065),	EN55024, ClassB)	
		DOC (ICES003 ClassA)		
	Power Source and	24 V AC 60 Hz, 85 W	WV-NW960: 220 ~ 240 V AC 50 Hz,	
	Power Consumption	(Heater ON)	90 W (Heater ON)	
			WV-NW964: 24 V AC 50 Hz,	
			85 W (Heater ON)	
	Ambient Operating	-40 °C ~ +50 °C (-40 °F ~ 122 °F) (Heater ON),		
	Temperature/Humidity	90 % or less (without condensation)		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible.		
	Dimensions	ø239 mm x 395.5 mm (H) (ø9-7/16" x 15-9/16" (H))		
	Weight (approx.)	4.7 kg (10.34 lbs.)	4.9 kg (10.78 lbs.)	

Part Names and Functions



Appearance



- Trademarks and registered trademarks

 Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
- 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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User Registration

