# 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**

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.

### Optional Accessory

Wall Mount Bracket



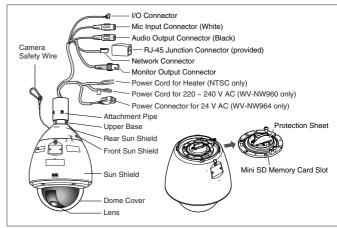
This catalog is provided for all over the world. Some accessories may not be available in some countries.

#### **Specifications**

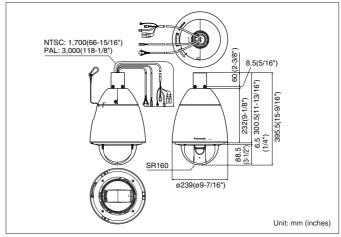
	n Imaga Sansar	NTSC PAL		
Camera	Image Sensor	1/4-type interline transfer CCD		
	Effective Pixels	768 (H) x 494 (V)		
	Scanning Mode	2:1 interlace scan (with motion adaptive interlace/progressive conversion		
	Scanning Area	3.59 (H) x 2.70 (V) mm		
	Minimum Illumination	Color (30IRE): 0.5 lux (Sens up: OFF), 0.02 lux (Sens up: 32x) at F1.		
		B/W (10IRE): 0.04 lux (Sens up: OFF), 0.0013 lux (Sens up: 32x) at F1.		
	White Balance	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000		
	Light Control	Automatic integration of ALC/ELC		
	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		
		OFF / AUTO (2x / 4x / 6x / 10x / 16x / 32x)		
	Digital Noise Reduction			
	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 sto		
		Non-preset position: Detects entire screen except clock area, Sensitivity: 6 step		
	D: 7			
	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	Focal Length			
-c119		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		
Pan and				
	Panning Range	360° endless		
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)		
	Titaling Opecou			
		Preset: up to approx.400°/s		
	Proportional Pan/Tilt Control	Yes		
	Number of Preset Positions	256		
	Auto Mode	OFF / preset sequence / auto pan / auto track / patrol		
	Auto Track	Standard Auto track		
	Patrol	1/2/3/4		
	Image Hold	ON / OFF		
	Digital Flip	Yes		
	DT7 D '11' D' 1	ON / OFF		
	PIZ Position Display	ION / OFF		
	PTZ Position Display			
	Preset Position Setting	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area		
	Preset Position Setting Map Shot	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot		
	Preset Position Setting	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom,		
Browser GUI	Preset Position Setting Map Shot	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot		
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	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS  Supported Browser  Network IF	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manui Reset English, French (Installation required for French) German, Russian (Installation required except for English) Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows Vista The language of the OS must be same as selected GUI languag Microsoft® Internet Explorer® 6.0 SP (Only with Windows 2000 Professional SP 10Base-T / 100Base-TX, RJ-45 connector		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language  System Log Supported OS  Supported Browser  Network IF Image Resolution	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manus Reset English, French (Installation required for French) German, Russian (Installation required except for English)  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista  The language of the OS must be same as selected GUI languag Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 6.0 SP Onsert (Ind.) With Windows 2000 Professional SP 10Base T / 100Base TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240)		
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GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language  System Log Supported OS  Supported Browser  Network IF Image Resolution	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot   Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.   Image from 16 cameras can be displayed in   4 different Quad screens or 16-screen (JPEG only).   Up to 20 alphanumeric characters   Images recorded in the SD memory card can be downloaded.   Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manu: Reset   English, French (Installation required for French)   (Installation required for French)   Company of the provided in the SD memory card can be downloaded.   Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manu: Reset   English, French (Installation required for French)   Company of the provided in the Spanist German, Russian (Installation required except for English)   Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows Vista   The language of the OS must be same as selected GUI language Microsoft® Internet Explorer® 7.0   Microsoft® Internet Explorer® 7.0   Microsoft® Internet Explorer® 6.0 SP1 (Only with Windows 2000 Professional SP 10Base-T / 100Base-TX, RJ-45 connector   VGA (640 x 480) / QVGA (320 x 240)   JPEG: Image quality: 10 steps, Transmission type: UNICAST / MULTICAS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps,		
GUI	Preset Position Setting Map Shot Camera Control Display Mode Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS Supported Browser Network IF Image Resolution Image Compression	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot   Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.   Image from 16 cameras can be displayed in   4 different Quad screens or 16-screen (JPEG only).   Up to 20 alphanumeric characters   Images recorded in the SD memory card can be downloaded.   Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manu: Reset   English, French (Installation required for French)   (Installation required for French)   Company of the provided in the SD memory card can be downloaded.   Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manu: Reset   English, French (Installation required for French)   Company of the provided in the Spanist German, Russian (Installation required except for English)   Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows Vista   The language of the OS must be same as selected GUI language Microsoft® Internet Explorer® 7.0   Microsoft® Internet Explorer® 7.0   Microsoft® Internet Explorer® 6.0 SP1 (Only with Windows 2000 Professional SP 10Base-T / 100Base-TX, RJ-45 connector   VGA (640 x 480) / QVGA (320 x 240)   JPEG: Image quality: 10 steps, Transmission type: UNICAST / MULTICAS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps, Transmission type: PULL / PUS   MPEG4: Image quality: 10 steps,		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language  System Log Supported OS  Supported Browser  Network IF Image Resolution	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded.  Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manur Reset English, French (Installation required for French)  German, Russian (Installation required except for English)  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista  The language of the OS must be same as selected GUI languag Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 6.0 SP Olds with Windows 2000 Professional SP 10Base T / 100Base TX, RJ-45 connector  VGA (640 x 480) / QVGA (320 x 240)  MPEG-4: Image quality: 10 steps. Transmission type: UNICAST/MULTICAS JPEG and JPEG dual streaming and JPEG multi-resolution supported 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max rate will be 5 ips-VG/10.10.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max r		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language  System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manux Reset English, French (Installation required for French) (Installation required for French) Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista The language of the OS must be same as selected GUI languag Microsoft® Internet Explorer® 6.0 SP Microsoft® Internet Explorer® 6.0 SP Microsoft® Internet Explorer® 6.0 SP Microsoft® Internet Explorer® 5.0 SP1 (Only with Windows 2000 Professional SP 10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: Image quality: 10 steps, Transmission type: UNICAST / MULTICAS JPEG: Image quality: 10 steps, Transmission type: PULL / PUS MPEG-4 and JPEG dual streaming and JPEG multi-resolution supported 10 ips-QVGA when transmitting JPEG and MPEG-4 simultaneously)		
GUI	Preset Position Setting Map Shot Camera Control Display Mode Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS Supported Browser Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manu: Reset English, French (Installation required for French) [Regish, French, Italian, Spanisl (Installation required for French)]  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista The language of the OS must be same as selected GUI languag Microsoft® Internet Explorer® 7.0 [Microsoft® Internet Explorer® 6.0 SP Microsoft® Internet Explorer® 6.0 SP Microsoft® Internet Explorer® 6.0 SP 10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240)  MPEG-4: Image quality: 10 steps, Transmission type: UNICAST / MULTICAS JPEG: Image quality: 10 steps, Transmission type: PULL / PUS MPEG-4 and JPEG dual streaming and JPEG multi-resolution supporter 10 ips-OVGA when transmitting JPEG and MPEG-4 simultaneously)  G.726 (ADPCM) 32 kbps / 16 kbps		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression Audio Mode	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot   Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters   Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manu: Reset English, French (Installation required for French)   English, French, Italian, Spanisl (Installation required for French)   English, French, Italian, Spanisl German, Russian (Installation required except for English)   Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista   The language of the OS must be same as selected GUI languag   Microsoft® Internet Explorer® 7.0   Microsoft® Internet Explorer® 6.0 SP (Inseset T) 100Base-T / 100Base-T / 100Base-T / Sonnector   VGA (640 x 480) / QVGA (320 x 240)   MPEG4: Image quality: LOW / NORMAL / FINE, Transmission type: VILL / PUS   MPEG4: Image quality: LOW / NORMAL / FINE, Transmission type: PULL / PUS   MPEG4: Image quality: 100 steps, Transmission type: PULL / PUS   MPEG4 and JPEG dual streaming and JPEG multi-resolution supporter   0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 1 / 0 / 15 / 30 ips (Max rate will be 5 ips-VG/ 10 ips-QVGA when transmitting JPEG and MPEG4 simultaneously)   G.726 (ADPCM) 32 kbps / 16 kbps   OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)   OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)   OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)   OFF / Microsoft® (Interactive (Half duplex) / Interactive (		
GUI	Preset Position Setting Map Shot Camera Control Display Mode Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS Supported Browser Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manus Reset English, French (Installation required for French) German, Russian (Installation required for French) German, Russian (Installation required except for English)  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista  The language of the OS must be same as selected GUI languag Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 6.0 SP (Ind) with Windows 2000 Professional SP 10Base T / 100Base TX, RJ-45 connector  VGA (640 x 480) / QVGA (320 x 240)  MPEG4: Image quality: 10 steps of Transmission type: UNICAST / MULTICAS JPEG image quality: 10 steps of 10 jps-20 (ADPCM) 3 kbps / 10 jps-20 (ADPCM) 3 kbps / 16 kbps  OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex) Level 1 only / Level 2 higher / All users		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression Audio Mode	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot   Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters   Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manu: Reset English, French (Installation required for French)   English, French, Italian, Spanisl (Installation required for French)   English, French, Italian, Spanisl German, Russian (Installation required except for English)   Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista   The language of the OS must be same as selected GUI languag   Microsoft® Internet Explorer® 7.0   Microsoft® Internet Explorer® 6.0 SP (Inseset T) 100Base-T / 100Base-T / 100Base-T / Sonnector   VGA (640 x 480) / QVGA (320 x 240)   MPEG4: Image quality: LOW / NORMAL / FINE, Transmission type: VILL / PUS   MPEG4: Image quality: LOW / NORMAL / FINE, Transmission type: PULL / PUS   MPEG4: Image quality: 100 steps, Transmission type: PULL / PUS   MPEG4 and JPEG dual streaming and JPEG multi-resolution supporter   0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 1 / 0 / 15 / 30 ips (Max rate will be 5 ips-VG/ 10 ips-QVGA when transmitting JPEG and MPEG4 simultaneously)   G.726 (ADPCM) 32 kbps / 16 kbps   OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)   OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)   OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)   OFF / Microsoft® (Interactive (Half duplex) / Interactive (		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language  System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression  Audio Mode Authentication for Audio Total Bit Rate	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manux Reset English, French (Installation required for French) [Serman, Russian (Installation required for French)]  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista The language of the OS must be same as selected GUI language Microsoft® Internet Explorer® 6.0 SP1 (Only with Windows 2000 Professional SP 10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240)  MPEG-4: Image quality: 10 steps, Transmission type: UNLCAST/MULTICAS JPEG: Image quality: 10 steps, Transmission type: PULL / PUS MPEG-4 and JPEG dual streaming and JPEG multi-resolution supported 1/102/0.33/0.5/11/2/35/6/10/15/30 ips (Max rate will be 5 ips-VG/10 ips-QVGA when transmitting JPEG and MPEG-4 simultaneously)  G.726 (ADPCM) 32 kbps / 16 kbps  OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited		
GUI	Preset Position Setting Map Shot Camera Control Display Mode Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS Supported Browser Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode Authentication for Audio Total Bit Rate Max Bit Rate /	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Inis, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manus Reset English, French (Installation required for French)   The language of the OS must be same as selected GUI language Microsoft® Windows Vista   Microsoft® Internet Explorer® 6.0 SP (Only with Windows 2000 Professional SP 10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / CVGA (320 x 240)   MPEG-4 and JPEG dual streaming and JPEG multi-resolution supported (10 ps-OVGA when transmitting JPEG and MPEG-4 simultaneously)   G.726 (ADPCM) 32 kbps / 16 kbps   GF/Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex)   Level 1 only / Level 2 higher / All users   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps   Unlimited   G4 / 128 / 256 / 512 / 1,024 / 1,536		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression Audio Mode Authentication for Audio Total Bit Rate Max Bit Rate / Client (MPEG-4)	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Inis, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters  Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manus Reset  English, French (Installation required for French) (German, Russian (Installation required except for English)  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows XP Professional/Home SP2, Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 6.0 SP Microsoft® Internet Explore		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language  System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression  Audio Mode Authentication for Audio Total Bit Rate Max Bit Rate / Client (MPEG-4) Supported Protocol	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manur Reset English, French (Installation required for French) German, Russian (Installation required for French) German, Russian (Installation required except for English)  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows® XP Professional/Home SP2, Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 6.0 SP Microsoft® In		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression Audio Mode Authentication for Audio Total Bit Rate Max Bit Rate / Client (MPEG-4)	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Inis, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters  Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manus Reset  English, French (Installation required for French) (German, Russian (Installation required except for English)  Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows XP Professional/Home SP2, Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 6.0 SP Microsoft® Internet Explore		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language  System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression  Audio Mode Authentication for Audio Total Bit Rate Max Bit Rate / Client (MPEG-4) Supported Protocol	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manux Reset English, French (Installation required for French)		
GUI	Preset Position Setting Map Shot Camera Control Display Mode Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS Supported Browser  Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode Authentication for Audio Total Bit Rate / Client (MPEG-4) Supported Protocol FTP Client No. of Simultaneous Users	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Inis, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manux Reset English, French (Installation required for French) [English, French, Italian, Spanisl German, Russian (Installation required for French) [Formation of the Windows® XP Professional/Home SP2, Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows Vista [Microsoft® Internet Explorer® 6.0 SP1 (Only with Windows 2000 Professional SP 10Base-T / 100Base-TX, BJ-45 connector [Polasional SP 10Base-T / 100Base-TX, BJ-45 connector [Polasional SP 10 SP1 (Only Windows 2000 Professional SP 10 SP2 (A) (34 Ox 480) / QVGA (320 x 240) [Polasional SP 24 (A) PEG and MPEG-4 and JPEG dual streaming and JPEG multi-resolution supporter [Polasional SP 24 (A) PEG (ADPCM) 32 kbps / 16 kbps [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited [Polasional SP 256 / 512 / 1,024 / 2,048 / 4,		
GUI	Preset Position Setting Map Shot Camera Control  Display Mode  Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS  Supported Browser  Network IF Image Resolution Image Compression  Image Refresh Rate  Audio Compression Audio Mode Authentication for Audio Total Bit Rate Max Bit Rate / Client (MPEG-4) Supported Protocol FTP Client No. of Simultaneous Users Mini SD Memory Card	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Inis, Preset position call and program, Auto mode.  Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only).  Up to 20 alphanumeric characters  Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manus Reset English, French (Installation required for French)  (Installation required for French)  Alarm log, Manual REC log, FTP error log (SD memory required wicrosoft® Windows® XP Professional/Home SP2, Microsoft® Windows® XP Professional/Home SP2, Microsoft® Internet Explorer® 1.0 Microsoft® Internet Explorer® 2.0 Microsoft® Internet Explorer® 6.0 SP (Microsoft® Internet Explorer® 6.0 SP (Microsoft® Internet Explorer® 6.0 SP (10 yes V 440) / QVGA (320 x 240)  MPEG-1 mage quality: 10 steps, Transmission type: UNICAST / MULTICAS / MICROSOft® Internet Explorer® 6.0 SP (10 yes QVGA when transmitting JPEG and MPEG-4 simultaneously)  G.726 (ADPCM) 32 kbps / 16 kbps  OFF / Mic input / Audio output / Interactive (Half duplex) / Interactive (full duplex Level 1 only / Level 2 higher / All users  64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps or Frame rate priority (4,096 kbps / Unlimited)  TCP/PL, UDP/PL, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RT Alarm image transfer, Periodic image transfer  Up to 8 users  Manual REC / Alarm REC / Backup upon network failure.		
GUI	Preset Position Setting Map Shot Camera Control Display Mode Camera Title SD Memory Data Download Clock Display Alarm Control GUI / Setup Menu Language System Log Supported OS Supported Browser  Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode Authentication for Audio Total Bit Rate / Client (MPEG-4) Supported Protocol FTP Client No. of Simultaneous Users	Preset ID / Auto focus / Dwell time / SDIII / ALC mask area 360° map shot / preset map shot Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode. Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded. Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manur Reset English, French (Installation required for French) German, Russian (Installation required for French) German, Russian (Installation required except for English). Alarm log, Manual REC log, FTP error log (SD memory required Microsoft® Windows® XP Professional/Home SP2, Microsoft® Windows® XP Professional/Home SP2, Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 6.0 SP Microsoft® Micr		
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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 $\Omega \pm 10\%$		
	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. 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.
     Product pictures shown in this catalog are all NTSC models.

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