Panasonic ideas for life

Super Dynamic III Day-Night Dome Network Camera WV-NS950 Series

NTSC WV-NS954 (24 V AC) PAL WV-NS950 (220 ~ 240 V AC) WV-NS954 (24 V AC)













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
- 5 degrees upper view for various applications
- 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.
- \bullet 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.

- Built-in network interface (10Base-T / 100Base-TX)
- 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
- Max bit rate/client (64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 kbps) or frame rate priority mode (4,096 kbps / Unlimited) for MPEG-4 and Total bit rate control (64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps / Unlimited) allowing flexible network management.
- 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

Standard Accessories

Optional Accessories

Ceiling Mount Bracke WV-Q105







Wall Mount Bracket WV-Q118



Dome Cover WV-CS3S

Smoke

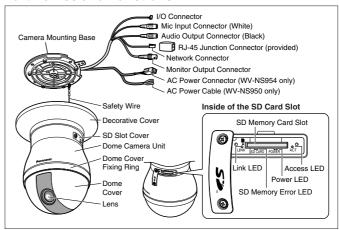


Specifications

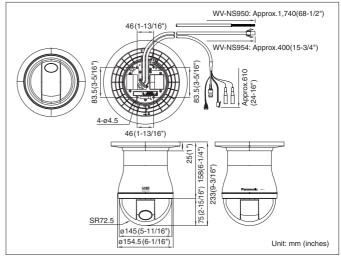
TV System		NTSC PAL		
Camera	Image Sensor	1/4-type interline transfer CCD		
	Effective Pixels	768 (H) x 494 (V)		
	Scanning Mode	2 : 1 interlace scan (with motion adaptive interlace/progressive conversion		
	Scanning Area	3.59 (H) x 2.70 (V) mm		
	Minimum Illumination	Color (30IRE): 0.5 lux (Sens up: OFF), 0.02 lux (Sens up: 32x) at F1.		
	White Delege	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 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	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		
	Electronic Sensitivity UP			
	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	Non-preset position: Detects entire screen except clock area, Sensitivity: 6 st		
	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	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 (depend	ing 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	Yes		
	Number of Preset Positions	256		
	Auto Mode	OFF / preset sequence / auto pan / auto track /	oatrol	
	Auto Track	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	Cambia Control	Iris, Preset position call and program, Auto mod		
	Display Mode			
	Camera Title	Image from 16 cameras can be displayed in 4 different Quad screens or 16-screen (JPEG only). Up to 20 alphanumeric characters		
	SD Memory Data Download	Up to 20 alphanumeric characters Images recorded in the SD memory card can be downloaded.		
	Clock Display	Time: 12H / 24H, Date: 5 formats on the browser, Sum		
	Alarm Control	Reset	illei tille (ivialiua	
			Italian Cnaniah	
	GUI / Setup Menu Language		Italian, Spanish,	
	Language	(Installation required for French) German, Russi required excep		
	System Loc			
	System Log	Alarm log, Manual REC log, FTP error log (SD m		
	Supported OS	Microsoft® Windows® XP Professional/Home SP2,		
		Microsoft® Windows Vista		
	0	The language of the OS must be same as selected		
	Supported Browser	Microsoft® Internet Explorer® 7.0 Microsoft® Internet Explorer® 6.0 SP2		
	1	Microsoft® Internet Explorer® 6.0 SP1 (Only with Windows 2000 Professional SP4)		
Materia 1			00 Professional SP4	
Network	Network IF	10Base-T / 100Base-TX, RJ-45 connector	00 Professional SP4	
Network	Network IF Image Resolution	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240)		
Network	Network IF	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: Image quality: LOW / NORMAL / FINE, Transmission type: U	INICAST / MULTICAST	
Network	Network IF Image Resolution	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-t: Image quality: LOW / NORMAL / FINE, Transmission type: U JPEG: Image quality: 10 steps, Transmission type	INICAST/MULTICAST	
Network	Network IF Image Resolution Image Compression	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: Image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission typ MPEG-4 and JPEG dual streaming and JPEG multi-res	INICAST / MULTICAST e: PULL / PUSH olution supported	
Network	Network IF Image Resolution	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L DPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max rai	INICAST / MULTICAST e: PULL / PUSH olution supported e will be 5 ips-VGA	
Network	Network IF Image Resolution Image Compression Image Refresh Rate	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: LOW / NORMAL / FINE, Transmission type: LJPEG: Image quality: 10 steps, Transmission type MPEG4 and JPEG dual streaming and JPEG multi-results of the control of the	INICAST / MULTICAST e: PULL / PUSH olution supported e will be 5 ips-VGA	
Network	Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: LOW / NORMAL / FINE, Transmission type: LJPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max at 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps	INICAST / MULTICAST e: PULL / PUSH olution supported e will be 5 ips-VGA leously)	
Network	Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission typ MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max rat 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int	INICAST / MULTICAST e: PULL / PUSH olution supported e will be 5 ips-VGA leously)	
Network	Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission typ MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max rat 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int	INICAST / MULTICAST e: PULL / PUSH olution supported e will be 5 ips-VGA leously)	
Network	Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission typ MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max rat 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int	INICAST / MULTICAST e: PULL / PUSH olution supported e will be 5 ips-VGA eeously) eractive (full duplex	
Network	Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode Authentication for Audio	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: image quality: L0W / N0RMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max ral 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic imput / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users	INICAST / MULTICAS' e: PULL / PUSH- olution supported e will be 5 ips-VGA eously) eractive (full duplex / Unlimited	
Network	Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode Authentication for Audio Total Bit Rate	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max ral 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps 0FF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps	INICAST / MULTICAST e: PULL / PUSH- olution supported e will be 5 ips-VGA eeously) eractive (full duplex / Unlimited	
Network	Network IF Image Resolution Image Compression Image Refresh Rate Audio Compression Audio Mode Authentication for Audio Total Bit Rate Max Bit Rate /	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max ral 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,07	INICAST/MULTICAS' e: PULL / PUSH- olution supported e will be 5 ips-VGA eeously) eractive (full duplex / Unlimited '2 / 4,096 kbps	
Network	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)	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: image quality: L0W / NORMAL / FINE, Transmission type: L MPEG4: mage quality: 10 steps, Transmission type: L MPEG4 and JPEG dual streaming and JPEG multi-res 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max rat 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,07 or Frame rate priority (4,096 kbps / Unlimited)	INICAST/MULTICAS* e: PULL / PUSH- olution supported e will be 5 ips-VGA eeously) eractive (full duplex / Unlimited '2 / 4,096 kbps	
Network	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	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: image quality: 10W / N0RMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-re 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max ra 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,07 or Frame rate priority (4,096 kbps / Unlimited) TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, Alarm image transfer, Periodic image transfer	INICAST/MULTICAS* e: PULL / PUSH- olution supported e will be 5 ips-VGA eeously) eractive (full duplex / Unlimited '2 / 4,096 kbps	
Network	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	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L DPEG: Image quality: 10 steps, Transmission type: L 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max rat 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,07 or Frame rate priority (4,096 kbps / Unlimited) TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS Alarm image transfer, Periodic image transfer Up to 8 users	iNiCAST / MULTICAS e: PULL / PUSH olution supported e will be 5 ips-VGA eously) eractive (full duplex / Unlimited '2 / 4,096 kbps , NTP, SNMP, RTf	
Network	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 SD Memory Card	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG4: Image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type: L JPEG-4 and JPEG dual streaming and JPEG multi-res 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max ral 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max ral 0.1/0.2/0.33/0.5/1/2/3/5/6/10/15/30 ips (Max ral 0.5/26 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,00 or Frame rate priority (4,096 kbps / Unlimited) TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS Alarm image transfer, Periodic image transfer Up to 8 users Manual REC / Alarm REC / Backup upon network failure. Compatib	INICAST/MULTICASI e: PULL / PUSH- olution supported e will be 5 ips-VGA eously) eractive (full duplex / Unlimited '2 / 4,096 kbps , NTP, SNMP, RTF	
Network	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 SD Memory Card (Option)	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type: L JPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max ral 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,07 or Frame rate priority (4,096 kbps / Unlimited) TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS Alarm image transfer, Periodic image transfer Up to 8 users Up to 8 users Manual REC / Nam REC / Backup upon network failure. Compatib 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB model. SDHC stands	INICAST/MULTICASI e: PULL / PUSH- olution supported e will be 5 ips-VGA eously) eractive (full duplex / Unlimited '2 / 4,096 kbps , NTP, SNMP, RTF	
Network	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 SD Memory Card (Option) Alarm E-mail	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: image quality: L0W / N0RMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type: L 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max ral 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,07 or Frame rate priority (4,096 kbps / Unlimited) TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS Alarm image transfer, Periodic image transfer Up to 8 users Manual REC / Alarm REC / Backup upon network failure. Compatib 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB model. SDHC stands Yes, Port number assignable.	INICAST/MULTICASI e: PULL / PUSH- olution supported e will be 5 ips-VGA eously) eractive (full duplex / Unlimited '2 / 4,096 kbps , NTP, SNMP, RTF	
Network	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 SD Memory Card (Option)	10Base-T / 100Base-TX, RJ-45 connector VGA (640 x 480) / QVGA (320 x 240) MPEG-4: image quality: L0W / NORMAL / FINE, Transmission type: L JPEG: Image quality: 10 steps, Transmission type: L JPEG: Image quality: 10 steps, Transmission type MPEG-4 and JPEG dual streaming and JPEG multi-res 0.1 / 0.2 / 0.33 / 0.5 / 1 / 2 / 3 / 5 / 6 / 10 / 15 / 30 ips (Max ral 10 ips-QVGA when transmitting JPEG and MPEG-4 simultar G.726 (ADPCM) 32 kbps / 16 kbps OFF / Mic input / Audio output / Interactive (Half duplex) / Int Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 kbps 64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,07 or Frame rate priority (4,096 kbps / Unlimited) TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS Alarm image transfer, Periodic image transfer Up to 8 users Up to 8 users Manual REC / Nam REC / Backup upon network failure. Compatib 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB model. SDHC stands	inicast / Multicast e: PULL / PUSH olution supported. e will be 5 ips-VGA, eously) eractive (full duplex / Unlimited '2 / 4,096 kbps , NTP, SNMP, RTF e SD card: Panasonic ird card not supported	

TV System		NTSC	PAL	
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), FCC (Part 15 ClassA),	CE (EN60065, EN55022,	
		C-UL (E60065), DOC (ICES003 ClassA)	EN55024, ClassB)	
	Power Source and	24 V AC 60 Hz, 15 W	WV-NS950:	
	Power Consumption		220 ~ 240 V AC 50 Hz, 16 W	
			WV-NS954:	
			24 V AC 50 Hz, 15 W	
	Ambient Operating	-10 C ~ +50 C (14 F ~ 122 F)		
	Temperature/Humidity	90 % or less (without condensation)		
	Dimensions	ø154.5 mm x 233 mm (H) (ø6-1/16" x 9-3/16" (H))		
	Weight (approx.)	2.2 kg (4.84 lbs.)	WV-NS950: 2.3 kg (5.06 lbs.)	
			WV-NS954: 2.2 kg (4.84 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.

User authentication (ID 32 digit, PW 32 digit), Host authentication (IP address)

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Security Measures

