

Super Dynamic HD Vandal Resistant **Fixed Dome Network Camera WV-NW502S**



H264, True Day/Night Vandal Resistant HD Camera featuring Super Dynamic

Key Features

- 1,080p HD images up to 15 fps / 720p HD images up to 30 fps
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size (1.3 Megapixel mode)
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared with conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- Up to 3 Megapixel (2,048 x 1,536) JPEG stream (3 Megapixel mode, JPEG only)
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function: 1.0 lx (Color), 0.08 lx (B/W) at F1.2 (Wide, 1.3 Megapixel mode)
- ABF (Auto Back Focus) ensures easy installation and stable focus in both color and B/W modes.
- Adaptive Digital Noise Reduction: Integration of 2D-DNR and 3D-DNR ensures noise reduction in various conditions.
- · Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- Superior color reproduction by primary (RGB) color filter
- · Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- · Selectable light control modes: Outdoor / Indoor / ELC / Fixed electronic shutter Outdoor / Indoor: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. ELC: Up to 1/10,000 Electronic shutter is automatically applied for a fix iris lens. Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- · Face detection detect the position of human face, the information is sent by XML or video stream.
- Meta data for VMD is supplied to work with the WJ-ND400 playback VMD function.
- · Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.
- 2x. 4x digital zoom controlled by browser
- · Camera title display: Up to 20 alphanumeric characters on the browser, Up to 16 alphanumeric characters with three selectable character sizes embedded in the image
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SD/SDHC memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic protocol output.

- · Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.
- JPEG image compression ratio can be changed by alarm so that higher quality image can be provided.
- SD/SDHC Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264/MPEG-4 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Internet mode: H.264/MPEG-4 images can be transmitted over HTTP protocol.
- Multi-language GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC) * Installation required except for English
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- · Vandal resistant mechanism for high reliability
- 2.8 ~ 8.0 mm, 2.8x Varifocal Auto Iris lens

Standard Accessories

- CD-ROM*1 ... • Base Cover 1 pc. ... 1 pc. Installation Guide 1 pc. • Fixing Screws (M4 x 8 mm) Code Label*2 1 pc. (1 piece of spare screw included) 5 pcs. • Bit for tamperproof screw 1 pc. The followings are for installation. • Butyl tape 1 pc. • 2P Power Cable 1 pc. *1 The CD-ROM contains Panasonic IP Setup Software viewer software "Network Camera View 4", and Operation Instructions (PDF). *2 This label may be required for network management The network administrator shall retain the code label • 4P Alarm Cable 1 pc. Camera Attachment 1 pc.
- Mount Bracket 1 pc.

Optional Accessories

Embedded Ceiling Mount Bracket WV-Q169

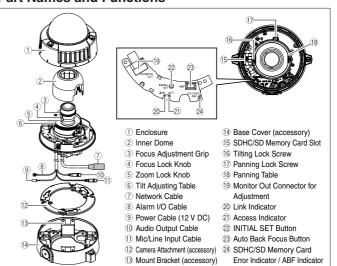


Specifications

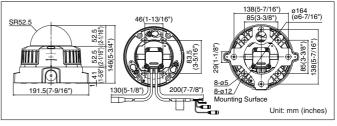
TV System			NTSC PAL	
Camera	Image Sensor		1/3 type interline transfer CCD	
	Effective Pixels		1,296 (H) x 976 (V) x2	
	Scanning Mode		Progressive scan	
	Scanning Area		4.86 mm (H) x 3.65 mm (V)	
	Minimum	1.3 Megapixel	Color: 1.0 lx, B/W: 0.08 lx at F1.2 (SI	hutter: 1/30 s, AGC: High, SD: OFF),
	Illumination	mode	Color: 0.06 lx, B/W: 0.005 lx at F1.2 (S	hutter: 16/30 s, AGC: High, SD: OFF)
	*1	3 Megapixel	Color: 2.0 lx, B/W: 0.16 lx at F1.2 (\$	Shutter: 1/30 s, AGC: High),
		mode	Color: 0.12 lx, B/W: 0.01 lx at F1.2	(Shutter: 16/30 s, AGC: High)
	White Bala	1		
	White Balance Light Control Mode		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
	Light Contr	oi wode	Outdoor: Automatic integration of ALC and ELC Indoor: Automatic integration of ALC	
			and ELC (up to 3/100 s) ELC: (up to 1/10,000 s) (ELC: only at Super Dynamic: OFF)	
	Shutter Speed		Fix shutter: 3/100, 2/100, 1/100, 1/250, 1/500, 1/1,000, 1/2,000,	
			1/4,000, 1/10,000 (Only at Super Dynamic: OFF)	
	Super Dynamic		ON / OFF (1.3 Megapixel mode only)	
	Face Super Dynamic		ON / OFF (Only at Super Dynamic: ON)	
	Dynamic Range		52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)	
	, ,			
	Adaptive Black Stretch		ON / OFF (Only at Super Dynamic: OFF)	
	AGC		ON (LOW, MID, HIGH) / OFF	
	Electronic Sensitivity UP		OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))	
	Black and White Mode		Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external control	
	Digital Noise Reduction		High / Low	
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone		4 areas, sensitivity: 15 steps, Detection size: 10 steps	
	Up Side Down		ON / OFF	
			ON / OFF	
	Auto Image Stabilizer			
	Camera Title (OSD)		Up to 16 alphanumeric characters (3 selectable character sizes)	
	Back Focus Adjustment		ABF / MANUAL, ABF mode upon CL/BW switching: AUTO / PRESET / FIX	
Lens	Vari Focal Length		2.8 mm ~ 8 mm, 2.8x varifocal	
	Angular Field of View		H: 35.0° (Tele) ~ 100° (Wide), V: 26.2° (Tele) ~ 73.4° (Wide)	
	Maximum Aperture Ratio		1 : 1.2 (Wide) ~ 1 : 1.8 (Tele)	
	Focusing Range		0.3 m ~ ∞	
Pan and Til	,		Panning Range: ±170° Tilting Range: ±75° Azimuth Range: ±100°	
Browser	-			
	Camera Control		Brightness, AUX ON / OFF, Zoom (1x, 2x, 4x)	
GUI	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad	
			screens or 16 split screen (JPEG only). 20 characters camera title available.	
	Digital Zoom		1x, 2x, 4x controlled by browser GUI	
	Camera Title		Up to 20 alphanumeric characters	
			Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual)	
	Clock Display		Reset	are browsel, builder and (Manual)
	Alarm Control			
	One Shot Capture		A still picture will be displayed on a newly opened window.	
	Audio		Mic (Line) Input: ON / OFF, Audio Output: ON / OFF	
	SD Memory	Data Download	Still or Motion Images recorded in the SD/SDHC memory card can be downloaded.	
	GUI/Setup	Menu Language	English, French	English, French, Italian, Spanish, German,
			(Installation required for French)	Russian (Installation required except for English)
	System Log		Up to 100 (Internal), Up to 4,000 (S	
	0	~~~	recording format is set to JPEG.) error logs	
	Supported OS		Microsoft® Windows® 7 Professional 64 bit/32 bit,	
			Microsoft® Windows Vista® Business SP1 32 bit, Microsoft® Windows® XP Home Edition/	
			Professional SP3, The language of the OS must be same as selected GUI language.	
				must be same as selected GUI language
	Supported	Browser		
	Supported	Browser	Professional SP3, The language of the OS Windows [®] Internet Explorer [®] 8.0 32 bit	t (Microsoft® Windows® 7 64 bit/32 bit),
	Supported	Browser	Professional SP3, The language of the OS Windows [®] Internet Explorer [®] 8.0 32 bir Windows [®] Internet Explorer [®] 7.0 (Microso	t (Microsoft® Windows® 7 64 bit/32 bit), oft® Windows Vista® Business SP1 32 bit),
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Network	Network IF		Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microso 100Base-T / 100Base-TX, RJ-45 coi 1.3 Megapixel mode (Aspect ratio [H.264: 1.280 x 960 / SVA6 (800 x 600) /VA6 JPEG: 1.280 x 960 / SVA6 (800 x 600) /VA6 JPEG: 1.280 x 960 / SVA6 (800 x 600) /VA6 J.3 Megapixel mode (Aspect ratio [H.264: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 3 Megapixel mode (Aspect ratio [H.264: 1,280 x 960 / VGA (640 x 48 MPEG-4: VGA (640 x 480) / QVGA	t (Microsoft® Windows® 7 64 bit/32 bit), ft® Windows Vista® Business SP1 32 bit), @ Windows® XP Home Edition/Professional SP3 nnector 4:3]): (640 x 480) / QVGA (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fps 15:9]): 20 x 180, up to 30 fps 30 x 180, up to 30 fps 31): 0) / QVGA (320 x 240), up to 15 fps (320 x 240), up to 15 fps
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letwork	Network IF Image Res	olution *2	Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bit Windows® Internet Explorer® 7.0 (Microso 100Base-T / 100Base-TX, RJ-45 cot 1.3 Megapixel mode (Aspect ratio [H.26:1.280 x 960 / SV6A (800 x 600) / V6A PEG - 42 VGA (640 x 480) / QVGA JPEG - 1280 x 960 / SV6A (800 x 600) / V6A 1.3 Megapixel mode (Aspect ratio [H.264:1.280 x 720 / 640 x 360 / 32 3 Megapixel mode (Aspect ratio [H.264:1.280 x 720 / 640 x 480) / QVGA JPEG - 2,048 x 1,536 / 1,280 x 960 / VGA 3 Megapixel mode (Aspect ratio [H.264:1.280 x 960 / VGA (640 x 48 MPEG - 4: VGA (640 x 480) / QVGA JPEG - 2,048 x 1,536 / 1,280 x 960 / G 3 Megapixel mode (Aspect ratio [H.264:1,290 x 1,080 / 640 x 360 / 3 JPEG - 2,048 x 1,536 / 1,280 x 960 / G	t (Microsoft® Windows® 7 64 bit/32 bit), tf® Windows Vista® Business SP1 32 bit), tf® Windows Vista® Business SP1 32 bit), tf® Windows XP Home Edition/Professional SP3 nnector (4640 x 480) / QVGA (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fps 16:9]): 00 / 18:00, up to 30 fps 00 x 180, up to 30 fps 00 x 180, up to 30 fps (320 x 240), up to 15 fps (320 x 240, up to 15 fps 320 x 240, up to 15 fps
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Network	Network IF Image Res H.264 / Trr MPEG-4 Fr	olution *2	Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bit Windows® Internet Explorer® 7.0 (Microso 100Base-T / 100Base-TX, RJ-45 cot 1.3 Megapixel mode (Aspect ratio [H.26:1.280 x 960 / SV6A (800 x 600) / V6A PEG - 42 VGA (640 x 480) / QVGA JPEG - 1280 x 960 / SV6A (800 x 600) / V6A 1.3 Megapixel mode (Aspect ratio [H.264:1.280 x 720 / 640 x 360 / 32 3 Megapixel mode (Aspect ratio [H.264:1.280 x 720 / 640 x 480) / QVGA JPEG - 2,048 x 1,536 / 1,280 x 960 / VGA 3 Megapixel mode (Aspect ratio [H.264:1.280 x 960 / VGA (640 x 48 MPEG - 4: VGA (640 x 480) / QVGA JPEG - 2,048 x 1,536 / 1,280 x 960 / G 3 Megapixel mode (Aspect ratio [H.264:1,290 x 1,080 / 640 x 360 / 3 JPEG - 2,048 x 1,536 / 1,280 x 960 / G	t (Microsoft® Windows® 7 64 bit/32 bit), ft® Windows Vista® Business SP1 32 bit), th® Windows W Hame Edition/Professional SP3 nnector 4:3]): (640 x 480) / QVGA (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fps 15:9]): 20 x 180, up to 30 fps 30 x 180, up to 30 fps 31): 0) / QVGA (320 x 240), up to 15 fps (320 x 240), up to 15 fps 320 x 240, up to 15 fps 320 x 240, up to 15 fps
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Vetwork	Network IF Image Res H.264 / Tra MPEG-4 Fr '2	olution *2	Professional SP3, The language of the OS Windows® Internet Explorer® 2.0 432 bit Windows® Internet Explorer® 0.0 593 (Microsoft 10Base-T / 100Base-TX, RJ-45 coi 1.3 Megapixel mode (Aspect ratio [H.264:1,280 x960/SVA (800 x600)/VAA PEG-4: VGA (640 x480) / QVGA JPEG:1,280 x960/SVA (800 x600)/VAA 1.3 Megapixel mode (Aspect ratio [H.264:1,280 x960/SVA (800 x600)/VAA 3 Megapixel mode (Aspect ratio [H.264:1,280 x720 / 640 x360 / 32 JPEG: 1,280 x720 / 640 x360 / 32 JPEG: 1,280 x150 / SVA (640 x48 MPEG-4: VGA (640 x480) / QVGA JPEG: 1,280 x960 / VGA (640 x48 MPEG-4: VGA (640 x480) / QVGA JPEG: 1,280 x 1,536 / 1,280 x960 3 Megapixel mode (Aspect ratio [16 H.264:1,920 x 1,080 / 640 x360 / 3 JPEG: 1,920 x 1,920 / 90 / 90 / 90 / 90 / 90 / 90 / 90 /	t (Microsoft® Windows® 7 64 bit/32 bit), tf® Windows Vista® Business SP1 32 bit), (460 x 480) / QVGA (320 x 240), up to 30 fps (320 x 180, up to 30 fps (320 x 180, up to 30 fps (320 x 240), up to 30 fps (320 x 240), up to 30 fps (320 x 240), up to 15 fps (320 x 240, up to 15 fps) (320 x 240, up to 15 fps (320 x 240, up to 15 fps) (320 x 240, up to
Vetwork	Network IF Image Res H.264 / Tra MPEG-4 Fr '2	olution *2 Insmission Priority ame Rate	Professional SP3, The language of the OS Windows® Internet Explorer® 8.0.32 bit Windows® Internet Explorer® 7.0 (Microso 1008ase-T / 100Base-TX, RJ-45 coi 1.3 Megapixel mode (Aspect ratio [H.26:1.280 x 960 / SV6A (800 x 600) / V6A PEG-4: VGA (640 x 480) / QVGA JEG: 1.280 x 960 / SV6A (800 x 600) / V6A 1.3 Megapixel mode (Aspect ratio [H.264: 1.280 x 920 / 640 x 360 / 32 JPEG: 1.280 x 720 / 640 x 360 / 32 JPEG: 1.280 x 960 / VGA (640 x 48 MPEG-4: VGA (640 x 480) / QVGA JPEG: 2.048 x 1,536 / 1.280 x 960 / 3 Megapixel mode (Aspect ratio [16 H.264: 1.280 x 10.80 / 640 x 360 / 32 Gonstant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20* / 30* fps * 1.3 Megapixel mode only 64 / 128 / 256 / 384 / 512 / 768 / 1,	t (Microsoft® Windows® 7 64 bit/32 bit), ft® Windows Vista® Business SP1 32 bit), ft® Windows & XP Home Edition/Professional SP3 nneector 4:3]): (640 × 480) / QVGA (320 x 240), up to 30 fps (640 × 480) / QVGA (320 x 240), up to 30 fps (640 × 480) / QVGA (320 x 240), up to 30 fps 16:9]): 10 × 180, up to 30 fps 10 × 180, up to 30 fps (320 x 240), up to 15 fps (320 x 240), up to 15 fps 320 x 240, up to 15 fps 1/3/5/7.5/10/12 (PAL model only) / 15 / 20' / 30' fps * 1.3 Megapixel mode only 024 / 1.536 / 2,048 / 3,072 /
Vetwork	Network IF Image Res H.264 / Tra MPEG-4 Fr 2 Bi	olution *2 Insmission Priority ame Rate It Rate/Client	Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microso 100Base-T / 100Base-TX, RJ-45 coi 1.3 Megapixel mode (Aspect ratio [H.264: 1.280 x 960 / SVA (800 x 600) / VAA JPEG: 1.280 x 960 / SVA (800 x 600) / VAA JPEG: 1.280 x 960 / SVA (800 x 600) / VAA J.3 Megapixel mode (Aspect ratio [H.264: 1.280 x 720 / 640 x 360 / 32 JPEG: 1.280 x 720 / 640 x 360 / 32 JPEG: 1.280 x 720 / 640 x 360 / 32 JPEG: 1.280 x 720 / 640 x 360 / 32 JPEG: 2.048 x 1.536 / 1.280 x 960 3 Megapixel mode (Aspect ratio [H.264: 1.920 x 1.080 / 640 x 480 JPEG: 2.048 x 1.536 / 1.280 x 960 / VGA Gonstant bit rate / Frame rate 1 / 3 / 5 / 7.5 / 10 / 15 / 20 ' / 30 * fps * 1.3 Megapixel mode only 64 / 128 / 256 / 384 / 512 / 768 / 1, 4,096 / 8,192* kbps / Unlimited * H	t (Microsoft® Windows® 7 64 bit/32 bit), ft® Windows Vista® Business SP1 32 bit), ft® Windows & XP Home Edition/Professional SP3 nneector 4:3]): (640 × 480) / QVGA (320 x 240), up to 30 fps (640 × 480) / QVGA (320 x 240), up to 30 fps (640 × 480) / QVGA (320 x 240), up to 30 fps 16:9]): 10 × 180, up to 30 fps 10 × 180, up to 30 fps (320 x 240), up to 15 fps (320 x 240), up to 15 fps 320 x 240, up to 15 fps 1/3/5/7.5/10/12 (PAL model only) / 15 / 20' / 30' fps * 1.3 Megapixel mode only 024 / 1.536 / 2,048 / 3,072 /
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Vetwork	Network IF Image Res H.264 / Trr MPEG-4 Fr '2 Bi Im Ra	olution *2 ansmission Priority arme Rate t Rate/Client iage Quality efresh Interval	Professional SP3, The language of the OS Windows® Internet Explorer® 3.0 32 bi Windows® Internet Explorer® 3.0 32 bi Minosoft® Internet Explorer® 5.0 (Microsoft Internet Explorer® 5.0 SP3 (Microsoft Internet Internet Explorer® 5.0 SP3 (Microsoft Internet Explorer® 5.0 SP3 (Microsoft Interne	t (Microsoft® Windows® 7 64 bit/32 bit) tf® Windows Vista® Business SP1 32 bit), tf® Windows WP Home Edition/Professional SP3 nnector 4:3)): (640 x 480) / QVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps (640 x 480) / QVGA (320 x 240), up to 30 fp; 16:9)): 20 x 180, up to 30 fps (0 x 180, up to 30 fps (0 x 180, up to 30 fps 3)): 0) / QVGA (320 x 240), up to 15 fps (320 x 240), up to 15 fps 320 x 240, up to 15 fps 320 x 240, up to 15 fps 1/3 / 5 / 7.5 / 10 / 12 (PAL model only) / 11 / 20' / 0' fps * 1.3 Megapixel mode only 024 / 1,536 / 2,048 / 3,072 / .264 mode only
Vetwork	Network IF Image Res H.264 / Trr MPEG-4 Fr '2 Bi Im Ra	olution *2 unsmission Priority ame Rate t Rate/Client tage Quality	Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microso 100Base-T / 100Base-TX, RJ-45 cot 1.3 Megapixel mode (Aspect ratio [H.264: 1,280 x 960/ SVGA (800 x 600) /VGA JPEG: 1,280 x 960/ SVGA (800 x 600) /VGA 1.3 Megapixel mode (Aspect ratio [H.264: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 JPEG: 1,280 x 720 / 640 x 360 / 32 JPEG: 2,048 x 1,536 / 1,280 x 960 3 Megapixel mode (Aspect ratio [H.264 : 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / Constant bit rate / Frame rate 1 / 3 / 5 / 7.5 /10 / 15 / 20* / 30* fps * 1.3 Megapixel mode only 64 / 128 / 256 / 384 / 512 / 768 / 1, 4,096 / 8,192* kbps / Unlimited * H LOW / NORMAL / FINE	t (Microsoft® Windows® 7 64 bit/32 bit), tf® Windows Vista® Business SP1 32 bit), tf® Windows (Vista® Business SP1 32 bit), tf® Windows (Vista® Business SP1 32 bit), tf0 (Vista® 240), Home Edition/Professional SP3 nnector (400 × 480) / QVGA (320 × 240), up to 30 fps (400 × 480) / QVGA (320 × 240), up to 30 fps (400 × 480) / QVGA (320 × 240), up to 30 fps (520 × 240), up to 30 fps (220 × 240), up to 30 fps 3)): 0) / QVGA (320 × 240), up to 15 fps (320 × 240, up to 15 fps 320 × 240, up to 15 fps 320 × 240, up to 15 fps 1/3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20' / 1,536 / 2,048 / 3,072 / .264 mode only
Jetwork	Network IF Image Res H.264 / Tra MPEG-4 Fr '2 Bi Im Re Tra Tra	olution *2 ansmission Priority arme Rate t Rate/Client iage Quality efresh Interval	Professional SP3, The language of the OS Windows® Internet Explorer® 3.0 32 bi Windows® Internet Explorer® 3.0 32 bi Minosoft® Internet Explorer® 5.0 (Microsoft Internet Explorer® 5.0 SP3 (Microsoft Internet Internet Explorer® 5.0 SP3 (Microsoft Internet Explorer® 5.0 SP3 (Microsoft Interne	t (Microsoft® Windows® 7 64 bit/32 bit), tf® Windows Vista® Business SP1 32 bit), tf® Windows (Vista® Business SP1 32 bit), tf® Windows (Vista® Business SP1 32 bit), tf0 (Vista® 240), Home Edition/Professional SP3 nnector (400 × 480) / QVGA (320 × 240), up to 30 fps (400 × 480) / QVGA (320 × 240), up to 30 fps (400 × 480) / QVGA (320 × 240), up to 30 fps (520 × 240), up to 30 fps (220 × 240), up to 30 fps 3)): 0) / QVGA (320 × 240), up to 15 fps (320 × 240, up to 15 fps 320 × 240, up to 15 fps 320 × 240, up to 15 fps 1/3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20' / 1,536 / 2,048 / 3,072 / .264 mode only

TV System		NTSC	PAL	
Network	Audio Compression	G.726 (ADPCM) 32 kbps / 16 kbps		
	Audio Mode	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Authentication for Audio	Level 1 only / Level 2 higher / All us	sers	
	Total Bit Rate	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
	Supported Protocol	pported Protocol IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDN		
		NTP, SNMP IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP		
	FTP Client	Alarm image transfer, Periodic image transfer, Active/Passive selectable (When the FTF		
		periodic transmission is failed, backup on an optional SDHC/SD memory card is available.		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post)		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure		
		Compatible SD (SDHC) card: Pana	asonic 256 MB, 512 MB,	
		1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB* model * SDHC card		
Alarm	Alarm Source	3 terminal inputs, VMD, Command alarm		
	Alarm Log	With SDHC/SD memory card: 5,000 logs, Without SDHC/SD memory card: 1,000 logs		
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal outpu		
		Indication on browser, FTP image transfer, Panasonic protocol output		
	Schedule	Alarm / VMD / Access permission		
Input /	Monitor Output (for adjustment)			
Output	Microphone/Line Input	ut MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack (monaural input) (Applicable		
	(Cable)	microphone: Plug-in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ		
	Audio Output (Cable)	ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT,		
	(Cable)	ALARM IN 3 / AUX OUT / EXPOSURE OUT		
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024)	
		C-UL (CAN/CSA C22.2 No.60065),		
		DOC (ICES003 ClassA)		
	Power Source and	12 V DC: 630 mA, PoE (IEEE 802.	3af): 7.6 W (Class 0 device)	
	Power Consumption			
	Ambient Operating	-30 °C ~ +50 °C (-22 °F ~ 122 °F) *3,		
	Temperature/Humidity	90 % or less (without condensation)		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
	Impact Protection	IEC 60068-2-75 test Eh, 50J		
	Dimensions	ø164 mm x 146 mm (H), 191.5 mm (W) (Base Cover)		
		(ø6-7/16" x 5-3/4" (H), 7-9/16" (W) (Base Cover))		
	Mass (approx.)	1.8 kg (4.0 lbs.) (with Mounting Bra		

Part Names and Functions



Appearance



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