

# 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  $\sim$  8.0 mm, 2.8x Varifocal Auto Iris lens
- · ONVIF compliant model

#### **Standard Accessories**

CD-ROM*1	Base Cover
The followings are for installation.	Butyl tape 1 pc.
• 2P Power Cable       1 pc.         • 4P Alarm Cable       1 pc.         • Camera Attachment       1 pc.         • Mount Bracket       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.

## **Optional Accessories**

Embedded Ceiling Mount Bracket WV-Q169 Smoke Dome Cover WV-CW4S



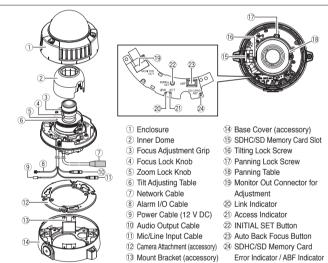
# **Specifications**

Camera	n		NTSC	PAL	
	Image Sen		1/3 type interline transfer CCD		
	Effective P	ixels	1,296 (H) x 976 (V) x2		
	Scanning N	Лode	Progressive scan		
	Scanning Area Minimum 1.3 Megapixel		4.86 mm (H) x 3.65 mm (V)		
			Color: 1.0 lx, B/W: 0.08 lx at F1.2 (Shutter: 1/30 s, AGC: High, SD: OFF),		
	Illumination		Color: 0.06 lx, B/W: 0.005 lx at F1.2 (S		
	*1			,	
	171	3 Megapixel	Color: 2.0 lx, B/W: 0.16 lx at F1.2 (		
		mode	Color: 0.12 lx, B/W: 0.01 lx at F1.2	(Shutter: 16/30 s, AGC: High)	
	White Bala	nce	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,00		
	Light Control Mode		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) (FLC: only at Super Dynamic: OFF	
	Shutter Sp	nod.	and ELC (up to 3/100 s) ELC: (up to 1/10,000 s) (ELC: only at Super Dynamic: OFF) 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)		
	Shutter Sp	eed			
	Super Dynamic Face Super Dynamic Dynamic Range Adaptive Black Stretch AGC Electronic Sensitivity UP Black and White Mode		ON / OFF (1.3 Megapixel mode only) ON / OFF (Only at Super Dynamic: ON)		
			52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)		
			ON / OFF (Only at Super Dynamic: OFF) ON (LOW, MID, HIGH) / OFF OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s)) Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external control		
	Digital Nois	se Reduction	High / Low		
		on Detection		ction size: 10 steps	
	Privacy Zo		4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 8 zones, Gray / Mosaic ON / OFF ON / OFF Up to 16 alphanumeric characters (3 selectable character sizes)		
	Up Side Do				
	Auto Image				
	Camera Tit	le (OSD)			
	Back Focu	s Adjustment	ABF / MANUAL, ABF mode upon CL	/BW switching: AUTO / PRESET / FIX	
Lens	Vari Focal		2.8 mm ~ 8 mm, 2.8x varifocal	<u> </u>	
				2 (Tele) ~ 73.4 (Mide)	
	Angular Fie		H: 35.0 (Tele) ~ 100 (Wide), V: 26.2 (Tele) ~ 73.4 (Wide)		
		Aperture Ratio	1:1.2 (Wide) ~ 1:1.8 (Tele)		
	Focusing F	Range	0.3 m ~		
Pan and Ti	ilt		Panning Range: 170 Tilting Range: 75 Azimuth Range: 100		
Browser Camera Control		ontrol	Brightness, AUX ON / OFF, Zoom (1x, 2x, 4x)		
GUI			Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	Display Mode		screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Digital Zoom		1x, 2x, 4x controlled by browser GUI		
	Camera Tit	le	Up to 20 alphanumeric characters		
	Clock Display		Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual)		
	Alarm Control		Reset		
	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		
	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	SD/SDHC memory when the	
	System Lo			,	
	System Lo	9	recording formatic cot to IDEC \ a	rror loge	
		-	recording format is set to JPEG.) e		
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Network	Supported Supported Network IF Image Res	OS  Browser  olution *2	Microsoft® Windows® 7 Profession Microsoft® Windows® 17 Profession Microsoft® Windows Vista® Business SP1 32 Professional SP3, The language of the OS Windows® Internet Explorer® 6.0 32 bi Windows® Internet Explorer® 7.0 (Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® 1.0 SP4 (800 x 600) / VG4 (800 x 600) + VG4 (800 x 60	al 64 bit/32 bit, bit, Microsoft® Windows® XP Home Edition 5 must be same as selected GUI language 1t (Microsoft® Windows® 7 64 bit/32 bit) 1t (Microsoft® Windows® 7 64 bit/32 bit) 1t (Windows VI Home Edition/Professional SP3 nnector 14:31): 1(640 x 480) / QVGA (320 x 240), up to 30 fp 1(640 x 480) / QVGA (320 x 240), up to 30 fp 1(640 x 480) / QVGA (320 x 240), up to 30 fp 1(5:91): 20 x 180, up to 30 fps 20 x 180, up to 30 fps 3(3): 10) / QVGA (320 x 240), up to 15 fps 1(320 x 240), up to 15 fps 1/ VGA (640 x 480), 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	
Network	Supported  Supported  Network IF Image Res  H.264 / Tr. MPEG-4 Fr	OS  Browser  olution *2	Microsoft® Windows® 7 Profession Microsoft® Windows® 87 Profession Microsoft® Windows Visia® Business SP1 32 Professional SP3, The language of the OS Windows® Internet Explorer® 6.0 32 bi Windows® Internet Explorer® 6.0 32 bi Windows® Internet Explorer® 6.0 SP3 (Microsoft IOBase-T / 100Base-TX, RJ-45 co I.3 Megapixel mode (Aspect ratio   H.264: 1,280 x 960 / SVGA (800 x 600) / VGA MPEG-4: VGA (640 x 480) / QVGA JPEG: 1,280 x 960 / SVGA (800 x 600) / VGA I.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 960 / VGA (640 x 480) MPEG-4: VGA (640 x 480) / QVGA JPEG: 2,048 x 1,536 / 1,280 x 960 3 Megapixel mode (Aspect ratio [14 H.264: 1,920 x 1,080 / 640 x 360 / 32 JPEG: 1,920 x 1,080 / 640 x 360 / 32 JPEG: 1,920 x 1,080 / 640 x 360 / 32 Constant bit rate / Frame rate 1/3/5/7.5/10/15/20*/30* fps	al 64 bit/32 bit, bit, Microsof® Windows® XP Home Edition 6 must be same as selected GUI language (t Microsof® Windows® 7 64 bit/32 bit) bit® Windows® VR Home Edition/Professional SP3 nnector (431): (4640 x 480) / QVGA (320 x 240), up to 30 fp (4640 x 480) / QVGA (320 x 240), up to 30 fp (4640 x 480) / QVGA (320 x 240), up to 30 fp (4640 x 480) / QVGA (320 x 240), up to 30 fp (4640 x 480) / QVGA (320 x 240), up to 15 fps (20 x 180, up to 30 fps (331): (320 x 240), up to 30 fps (320 x 240), up to 15 fps (7 VGA (640 x 480), up to 15 fps (320 x 240, up to 15 fps	
Network	Supported  Supported  Network IF Image Res  H.264 / Tr MPEG-4 '2'	OS  Browser  olution *2  ansmission Priority ame Rate	Microsoft® Windows® 7 Profession Microsoft® Windows® 87 Profession Microsoft® Windows Visia® Business SP133 Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microsoft IOBase-T / 100Base-TX, RJ-45 co 1.3 Megapixel mode (Aspect ratio   1.264: 1,280 x 960 / SV0A (800 x 600) / VG4 MPEG-4: VGA (640 x 480) / QVGA JPEG: 1,280 x 960 / SV0A (800 x 600) / VG4 1.3 Megapixel mode (Aspect ratio   1.264: 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 3 Megapixel mode (Aspect ratio   1.264: 1,280 x 960 / VGA (640 x 480 ) JPEG: 2,048 x 1,536 / 1,280 x 960 3 Megapixel mode (Aspect ratio   1.264: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 /	al 64 bit/32 bit, bit Microsof® Windows® XP Home Edition 5 must be same as selected GUI language (Microsof® Windows® 7 64 bit/32 bit) the Windows® XP Home Edition/Professional SP3 (Microsof® XP Home Edition	
Network	Supported  Supported  Network IF Image Res  H.264 / Tr MPEG-4 '2'	OS  Browser  olution *2	Microsoft® Windows® 7 Profession Microsoft® Windows® 18 Business SP1 38 Professional SP3, The language of the Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microsoft® Internet Explorer® 7.0 (Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® 1.0 S	al 64 bit/32 bit, al 64 bit/32 bit, bit, Microsoft® Windows® XP Home Edition 6 must be same as selected GUI language (t Microsoft® Windows® 7 64 bit/32 bit) trit® Windows® XP Home Edition/Professional SP3 nnector (4:3)]: (4:60 × 480) / QVGA (320 × 240), up to 30 fp (4:60 × 480) / QVGA (320 × 240), up to 30 fp (5:00 × 180, up to 30 fps (320 × 240), up to 30 fps (320 × 240), up to 30 fps (320 × 180, up to 30 fps (320 × 240), up to 15 fps (320 × 240, up to 15 fps	
Network	Supported  Supported  Network IF Image Res  H.264 / Tr MPEG-4 '2'	OS  Browser  olution *2  ansmission Priority ame Rate	Microsoft® Windows® 7 Profession Microsoft® Windows® 87 Profession Microsoft® Windows Visia® Business SP133 Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microsoft IOBase-T / 100Base-TX, RJ-45 co 1.3 Megapixel mode (Aspect ratio   1.264: 1,280 x 960 / SV0A (800 x 600) / VG4 MPEG-4: VGA (640 x 480) / QVGA JPEG: 1,280 x 960 / SV0A (800 x 600) / VG4 1.3 Megapixel mode (Aspect ratio   1.264: 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 3 Megapixel mode (Aspect ratio   1.264: 1,280 x 960 / VGA (640 x 480 ) JPEG: 2,048 x 1,536 / 1,280 x 960 3 Megapixel mode (Aspect ratio   1.264: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 / JPEG: 1,920 x 1,080 / 640 x 360 /	al 64 bit/32 bit, al 64 bit/32 bit, bit, Microsoft® Windows® XP Home Edition 6 must be same as selected GUI language (t Microsoft® Windows® 7 64 bit/32 bit) trit® Windows® XP Home Edition/Professional SP3 nnector (4:3)]: (4:60 × 480) / QVGA (320 × 240), up to 30 fp (4:60 × 480) / QVGA (320 × 240), up to 30 fp (5:00 × 180, up to 30 fps (320 × 240), up to 30 fps (320 × 240), up to 30 fps (320 × 180, up to 30 fps (320 × 240), up to 15 fps (320 × 240, up to 15 fps	
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Network	Supported Supported Network IF Image Res H.264 / Tn MPEG-4 Fr '2 Bi	OS  Browser  olution *2  ansmission Priority ame Rate  t Rate/Client	Microsoft® Windows® 7 Profession Microsoft® Windows® 7 Profession Microsoft® Windows Vista® Business SP1 33 Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bit Windows® Internet Explorer® 7.0 (Microsoft Microsoft® 10 Pase-T / 10 Dase-T / 10 D	al 64 bit/32 bit, bit, Microsof® Windows® XP Home Edition 5 must be same as selected GUI language (in Microsof® Windows® 7 64 bit/32 bit, tifle Windows® VR Home Edition/Professional SP; off® Windows® XP Home Edition/Professional SP; nnector (4/31): (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 15 fps (20 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 (3/20 x 240), up to 15 fps (3/20 x 240, up to 15 fps (3/20	
Network	Supported  Supported  Network IF Image Res  H.264 / In MPEG-4 *2  Bi In Ri	OS  Browser  olution *2  ansmission Priority ame Rate t Rate/Client hage Quality efresh Interval	Microsoft® Windows® 7 Profession Microsoft® Windows® 7 Profession Microsoft® Windows Visia® Business SP133 Professional SP3, The language of the OS Windows® Internet Explorer® 3.0 32 bi Windows® Internet Explorer® 7.0 (Microsoft® Internet Explorer® 7.0 (Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Internet Explorer® 7.0 (Microsoft® 1.280 x 960 / SVGA (800 x 600) / VGA MPEG-4: VGA (640 x 480) / QVGA 1.3 Megapixel mode (Aspect ratio [4: H.264: 1,280 x 720 / 640 x 360 / 32 3 Megapixel mode (Aspect ratio [4: H.264: 1,280 x 960 / VGA (640 x 480 / AVGA) MPEG-4: VGA (640 x 480 / VGA (640 x 480 / AVGA) MPEG-4: VGA (640 x 480 / AVGA) MPEG-4: VGA (640 x 480 / AVGA) MPEG-1: 1,920 x 1,080 / 640 x 360 / 32 3 Megapixel mode (Aspect ratio [1: H.264: 1,920 x 1,080 / 640 x 360 / AVGA) Megapixel mode (Aspect ratio [1: H.264: 1,920 x 1,080 / 640 x 360 / 32 3 Megapixel mode only 64 / 128 / 256 / 384 / 512 / 768 / 1,40,96 / 8,192* kbps / Unlimitled * H.209 / NORMAL / FINE COW / NORMAL / FINE	al 64 bit/32 bit, bit, Microsof® Windows® XP Home Edition 5 must be same as selected GUI language (in Microsof® Windows® 7 64 bit/32 bit, tifle Windows® VR Home Edition/Professional SP; off® Windows® XP Home Edition/Professional SP; nnector (4/31): (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 15 fps (20 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 (3/20 x 240), up to 15 fps (3/20 x 240, up to 15 fps (3/20	
Network	Supported  Supported  Network IF Image Res  H.264 / Tr MPEG-4 Fr 2 Bi Im Rr Tr	OS  Browser  olution *2  ansmission Priority ame Rate t Rate/Client hage Quality efresh Interval ansmission Type	Microsoft® Windows® 7 Profession Microsoft® Windows® 17 Profession Microsoft® Windows Wise® Business SP133 Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microsoft® Internet Explorer® 7.0 (Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Internet	al 64 bit/32 bit, bit, Microsof® Windows® XP Home Edition 5 must be same as selected GUI language (in Microsof® Windows® 7 64 bit/32 bit, tifle Windows® VR Home Edition/Professional SP; off® Windows® XP Home Edition/Professional SP; nnector (4/31): (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 15 fps (20 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 (3/20 x 240), up to 15 fps (3/20 x 240, up to 15 fps (3/20	
Network	Supported  Supported  Network IF Image Res  H.264 / Tr MPEG-4 72 Bi Irr Rr Tr JPEG Irr	OS  Browser  olution *2  ansmission Priority ame Rate t Rate/Client hage Quality efresh Interval	Microsoft® Windows® 7 Profession Microsoft® Windows® 7 Profession Microsoft® Windows Vista® Business SP1 33 Professional SP3, The language of the OS Windows® Internet Explorer® 8.0 32 bi Windows® Internet Explorer® 7.0 (Microsoft Microsoft® 10 Professional SP3, The language of the OS Windows® Internet Explorer® 6.0 SP3 (Microsoft OBase-T / 100 Base-T / 1	al 64 bit/32 bit, bit, Microsof® Windows® XP Home Edition 5 must be same as selected GUI language (in Microsof® Windows® 7 64 bit/32 bit, tifle Windows® VR Home Edition/Professional SP; off® Windows® XP Home Edition/Professional SP; nnector (4/31): (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 30 fp (6/40 x 480) / QVGA (320 x 240), up to 15 fps (20 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 (3/20 x 240), up to 15 fps (3/20 x 240, up to 15 fps (3/20	

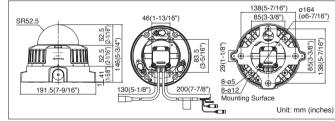
TV System	1	NTSC	PAL	
Network	Audio Compression	G.726 (ADPCM) 32 kbps / 16 kbps		
	Audio Mode	OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Authentication for Audio	3		
	Total Bit Rate			
	Supported Protocol	IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS,		
		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: Panasonic 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 lo SDHC/SD memory recording, E-mail notification, Alarm terminal output Indication on browser, FTP image transfer, Panasonic protocol output Alarm / VMD / Access permission		
	Alarm Actions			
	Schedule			
Input /	Monitor Output (for adjustment)	1.0 V [P-P] / 75 , NTSC composite, RCA Jack	1.0 V [P-P] / 75 , PAL composite, RCA Jack	
Output	Microphone/Line Input	*/Line Input 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 k		
Audio Output (Cable) ø3.5		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 / EXPOSI	SURE 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 Bracket)		

\*1 With standard Clear Dome Cover \*2 H.264 and MPEG-4 are alternative.
\*3 When turning on the power at –10 C (14 F) or lower, warming up (at least 1 hour) is required before operation and setting.

#### **Part Names and Functions**



#### **Appearance**



- · All TV pictures are simulated.
- Masses and dimensions are approximate.
   Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- · All product pictures are NTSC models.

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