

Super Dynamic Megapixel Vandal Resistant Fixed Dome Network Camera WV-NW502S

NTSC WV-NW502S (12 V DC or PoE)

PAL WV-NW502S (12 V DC or PoE)



Megapixel H.264 Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- 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 to conventional cameras.
- 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 lux (Color), 0.08 lux (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.

- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- SD/SDHC Memory card slot for manual recording, alarm recording and backup upon network failure.
- 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.
- Alarm log, Manual REC log, FTP error log saved in the SD/SDHC 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.
- 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*	Mounting Bracket	
	Bit for tamperproof screw 1 pc	
The followings are for installation.	Butyl tape 1 pc	
2-pin Power Cable	* The CD-ROM contains Panasonic IP Setup Software viewer software "Network Camera View 4", and Standard Operation Manual/Standard Setup Manual (PDP).	

Optional Accessories



Smoke Dome Cover WV-CW4S

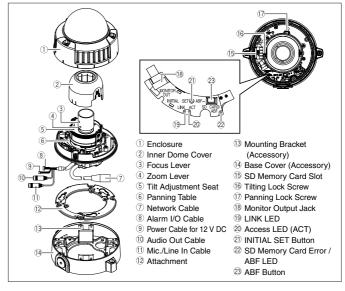


Specifications

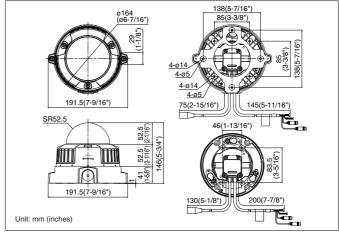
Camera	1		NTSC	PAL	
	Image :	Sensor	1/3 inch interline transfer CCD		
	Effectiv	e Pixels	1,296 (H) x 976 (V) x2		
	Scanning Mode Scanning Area Minimum Illumination		Progressive scan		
			4.86 mm (H) x 3.65 mm (V)		
			1. 3 Megapixel mode: Color: 1.0 lux, B/W: 0.08 lux at F1.2 (Shutter: 1/30 s, SD: OFF),		
			Color: 0.06 lux, B/W:	0.005 lux at F1.2 (Shutter: 16/30 s, SD: OFF)	
			3 Megapixel mode: Color: 2.0 lux, B/W: 0.16 lux at F1.2 (Shutter: 1/30 s),		
			Color: 0.12 lux, B/W: 0.01 lux at F1.2 (Shutter: 16/30 s)		
	White E	Balance	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
		ontrol Mode	Outdoor: Automatic integration of ALC and ELC Indoor: Automatic integration of ALC		
	Light O	orthor wode			
			and ELC (up to 1/100 sec.) ELC: (up to 1/10,000 sec.) Fix shutter: 3/100 fix, 2/100 fix, 1/100 fix, 1/250 fix, 1/500 fix, 1/1,000 fix, 1/2,000 fix, 1/4,000 fix, 1/10,000 fix DN / OFF (1.3 Megapixel mode only)		
	Super I	Dynamic			
	Dynam	ic Range	52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)		
	Adaptive Black Stretch AGC Electronic Sensitivity UP		ON / 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)		
		nd White Mode	Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external control		
	Digital Noise Reduction		High / Low		
	-		-		
			4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy		Up to 8 zones, Gray / Mosaic		
	Up Side		ON / OFF		
		age Stabilizer	ON / OFF		
	Camera	a Title (OSD)		ers (3 selectable character sizes	
	Back F	ocus Adjustment	ABF / MANUAL, ABF mode upon CL	/BW switching: AUTO / PRESET / FIX	
Lens	Vari Fo	cal Length	2.8 mm ~ 8 mm		
	Angular Field of View		H: 35.0° (Tele) ~ 100° (Wide), V: 26.2° (Tele) ~ 73.5° (Wide)		
	-	m Aperture Ratio	1:1.2	(1 1)	
		ng Range	0.3 m ~ ∞		
Browser					
GUI	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		
	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, Aud		
	SD Memory Data Download		Images recorded in the SD memory card can be downloaded.		
	GUI/Setup Menu Language				
	GUI/Set	up Menu Language	English, French	English, French, Italian,	
			(Installation required for French)		
				(Installation required except for English	
	System	Log	Up to 100 (Internal), Up to 4,00	0 (SD memory) error logs	
	Suppor	ted OS	Microsoft® Windows Vista® Business 32 bit, Microsoft® Windows® XP Home/Professional SP2		
			The language of the OS must be same as selected GUI language.		
	Suppor	ted Browser	Microsoft® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business 32 bit),		
			Microsoft® Internet Explorer® 6.0 SP2 (Microsoft® Windows® XP Home/Professional SP2)		
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector		
IVELWOIK				640 x 480) / QVGA (320 x 240), up to 30 fps	
	Image Resolution*1				
				/ QVGA (320 x 240), up to 30 fps	
				640 x 480) / QVGA (320 x 240), up to 30 fps	
			3 Megapixel $$ H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 15 fps		
			mode: MPEG-4: VGA (640 x 480) / QVGA (320 x 240), up to 15 fps		
			JPEG: 2,048 x 1,536 / 1,280 x 960 / VGA (640 x 480), up to 15 fps		
	H 264 /	Transmission Mode	Constant bit rate / Frame rate p		
	11.204/	Transmission mode		riority	
			1/3/5/10/15/20*/30* fps		
			1/3/5/10/15/20*/30* fps	* 1.3 Megapixel mode only	
	MPEG-4	Max. Frame Rate Max.	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /	
	MPEG-4	Max. Frame Rate Max. Bit Rate/Client	1 / 3 / 5 / 10 / 15 / 20* / 30* fps 64 / 128 / 256 / 384 / 512 / 768 4,096 / 8,192* kbps / Unlimited	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /	
	MPEG-4	Max. Frame Rate Max. Bit Rate/Client Image Quality	1 / 3 / 5 / 10 / 15 / 20* / 30* fps 64 / 128 / 256 / 384 / 512 / 768 4,096 / 8,192* kbps / Unlimited LOW / NORMAL / FINE	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /	
	MPEG-4	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /	
	MPEG-4 *1	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /	
	MPEG-4	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 /	
	MPEG-4 *1	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only	
	MPEG-4 *1	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only	
	MPEG-4 *1	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps PULL/PUSH G.726 (ADPCM) 32 kbps/16 k	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only	
	MPEG-4 *1 JPEG Audio C Audio N	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Mode	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps PULL/PUSH G.726 (ADPCM) 32 kbps/16 k OFF/Mic (Line) input/Audio output/Inter	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex	
	MPEG-4 *1 JPEG Audio C Audio N Authen	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Adde tication for Audio	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps PULL/PUSH G.726 (ADPCM) 32 kbps/16 k 0FF/Mic (Line) input/Audio output/Inter Level 1 only/Level 2 higher/A	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex	
	JPEG Audio C Audio N Authen Total Bi	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Ondo Inde Ideality Italians I	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 k GFF/Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex II users / 2,048 / 4,096 / 8,192 kbps / Unlimitee	
	JPEG Audio C Audio N Authen Total Bi	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Adde tication for Audio	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps PULL/PUSH G.726 (ADPCM) 32 kbps/16 k 0FF/Mic (Line) input/Audio output/Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, IP	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex) Il users / 2,048 / 4,096 / 8,192 kbps / Unlimitex RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS	
	JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Tr	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 k 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 IPv4:TCP/IP, UDP/IP, HTTF, RTP, RTP, RTP, SNMP IPv6:TCP/IP, UDP/IP, HTTF, SNMP IPv6:TCP/IP, UDP/IP, HTTP, SNMP IPv6:TCP/IP, UDP/IP, HTTP, SNMP IPv6:TCP/IP, UDP/IP, HTTP, I	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex II users -/2,048 / 4,096 / 8,192 kbps / Unlimiter TTP/RTCP, FTP, SMTP, DNC, DNS, DNS, RTP, FTP, SMTP, DNS, NTP, SNMP	
	JPEG Audio C Audio N Authen Total Bi	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Tr	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 k 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 INTR. SNMP IPV6:TCP/IP, UDP/IR, HTTR Alarm image transfer, Periodic image transfer	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex) II users / 2,048 / 4,096 / 8,192 kbps / Unlimiter 7,72,748 / 7,957 kbps / 4,096 / 8,192 kbps / 4,096 / 8,000 kbps / 4,096 / 8,000 kbps / 4,096 / 8,000 kbps / 4,000	
	MPEG-4 *1 JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Adde tication for Audio t Rate ted Protocol ent	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 k 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 IPv4:TCP/IP, UDP/IP, HTTF, RTP, RTP, RTP, SNMP IPv6:TCP/IP, UDP/IP, HTTF, SNMP IPv6:TCP/IP, UDP/IP, HTTP, SNMP IPv6:TCP/IP, UDP/IP, HTTP, SNMP IPv6:TCP/IP, UDP/IP, HTTP, I	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex II users / 2,048 / 4,096 / 8,192 kbps / Unlimitec 7,72,748 / 7,957 kbps / 1,957 kb	
	MPEG-4 *1 JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Tr	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 k 0FF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 INTR. SNMP IPV6:TCP/IP, UDP/IR, HTTR Alarm image transfer, Periodic image transfer	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex) II users / 2,048 / 4,096 / 8,192 kbps / Unlimitec RTP, FTP, SMTP, DNS, NTP, SNMP ler, Active/Passive selectable (When the FTI n optional SD memory card is available.)	
	MPEG-4 *1 JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Acide Literation for Audio	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps PULL/PUSH G.726 (ADPCM) 32 kbps/16 k 0FF/Mic (Line) input/Audio output/Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, ISNMP IPv6: TCP/IP, UDP/IP, HTTR Aperiodic transmission is failed, backup on a Up to 14 users (Depends on ne	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex) Il users / 2,048 / 4,096 / 8,192 kbps / Unlimitex RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, RTP, FTP, SMTP, DNS, DTP, SNMP fer, Active/Passive selectable (When the FTI no potional SD memory card is available.)	
	JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Tode Lication for Audio t Rate ted Protocol ent imultaneous Users mory Card	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps PULL/PUSH G.726 (ADPCM) 32 kbps/16 k 0FF/Mic (Line) input/Audio output/inter Level 1 only/Level 2 higher/A 44/128/256/384/512/768/1,024 IPv4:TCP/IP, UDP/IP, HTTF, RTSP, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RT	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Hall duplex) / Interactive (Full duplex Il users / 2,048 / 4,096 / 8,192 kbps / Unlimitee tTP/RTCP, FTP, SMTP, DHCP, DNS, DNS P, RTP, FTP, SMTP, DNS, NTP, SNMP ler, Active/Passive selectable (When the FTI n optional SD memory card is available.) twork conditions) of upon network failure	
	MPEG-4 *1 JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Tode Lication for Audio t Rate ted Protocol ent imultaneous Users mory Card	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps ~ 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 k OFF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 IPv4: TCPI/P, UDP/IP, HTTF Alarm image transfer, Periodic image trans periodic transmission is failed, backup on a Up to 14 users (Depends on ne Manual REC / Alarm REC / Backup Compatible SD (SDHC) card: Panasonic	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex II users / 2,048 / 4,096 / 8,192 kbps / Unlimitee TTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS P, RTP, FTP, SMTP, DNS, NTP, SNMP fer, Active/Passive selectable (When the FTI o optional SD memory card is available.) twork conditions) to upon network failure SD (SDHC) card: 64 MB, 128 MB,	
	JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Mode dication for Audio t Rate ted Protocol ent imultaneous Users mory Card)	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps/Unlimited LOW/NORMAL/FINE 0.1 fps ~ 30 fps UNICAST/MULTICAST 10 steps PULL/PUSH G.726(ADPCM) 32 kbps/16 k 0FF/Mic (Line) input/Audio output/Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,026 IPV4:TCP/IP, UDP/IP, HTTF, RTSP, RTP, R NAIP IPV4:TCP/IP, UDP/IP, HTTF, Alarm image transfer, Periodic image trans periodic transmission is failed, backup on a Up to 14 users (Depends on ne Manual REC / Alarm REC / Backup Compatible SD (SDHC) card: Panasonic 256 MB, 512 MB, 1 GB, 2 GB, 4 GB*, 8 G	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex II users / 2,048 / 4,096 / 8,192 kbps / Unlimitec ####################################	
Alarm	JPEG Audio C Audio N Authen Total Bi Suppor	Max. Frame Rate Max. Max. Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Compression Ande Literation for Audio Literation for A	1/3/5/10/15/20*/30* fps 64/128/256/384/512/768 4,096/8,192* kbps / Unlimited LOW / NORMAL / FINE 0.1 fps - 30 fps UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 k OFF / Mic (Line) input / Audio output / Inter Level 1 only / Level 2 higher / A 64/128/256/384/512/768/1,024 IPV4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, ISNMP IPV6: TCP/IP, UDP/IP, HTTS periodic transmission is failed, backup on a Up to 14 users (Depends on ne Manual REC / Alarm REC / Backup Compatible SD (SDHC) card: Panaschup Compatible SD (SDHC) card: Panaschup Compatible SD (SDHC) card: Panaschup 3 terminal inputs, VMD, Comma	* 1.3 Megapixel mode only / 1,024 / 1,536 / 2,048 / 3,072 / * H.264 mode only bps active (Half duplex) / Interactive (Full duplex II users / 2,048 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 2,049 / 4,096 / 8,192 kbps / Unlimitee / 3,049 / 4,096 / 8,192 kbps / Unlimitee / 3,049 / 4,096 / 8,192 kbps / Unlimitee / 3,049 / 4,096 / 8,192 kbps / Unlimitee / 3,049 / 4,096 / 8,192 kbps / Unlimitee / 4,049 / 4,096 / 8,192 kbps / Unlimitee / 5,049 / 4,096 / 8,	

TV System		NTSC	PAL		
Alarm	Alarm Actions	SD memory recording, E-mail notification, Alarm terminal output,			
		Indication on browser, FTP image transfer, Panasonic protocol output			
	Schedule	Alarm / VMD / Access permission			
Input /	Monitor Output	1.0 V [P-P] / 75 Ω, NTSC	1.0 V [P-P] / 75 Ω, PAL		
Output	t composite, RCA Jack composite, RCA		composite, RCA Jack		
	Microphone/Line Input	ole. ø3.5 mm stereo mini jack			
	(Cable)	(monaural input) (Applicable microphone: Plug-in power type) Supply voltage: 2.5 V ± 0.5 V Input impedance: 3 k $\Omega \pm 10$ % a3.5 mm stereo mini jack (monaural output) Line level			
	Audio Output (Cable)				
	External I/O Terminals	ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT, ALARM IN 3 / AUX OUT / EXPOSURE OUT			
	(Cable)				
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024),		
		C-UL (CAN/CSA C22.2 No.60065),	GOST (GOST R 51558)		
		DOC (ICES003 ClassA)			
	Power Source and	12 V DC: 630 mA, PoE (IEEE 80	2 V DC: 630 mA, PoE (IEEE 802.3af): 7.6 W		
	Power Consumption				
	Ambient Operating		°F) *2,		
	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" (ø6-7/16" x 5-3/4" (H), 7-9/16" (W) (Base Cover))		
	Weight (approx.)	1.7 kg (3.74 lbs.) (with Mounting Bracket)			

Part Names and Functions



Appearance



- Trademarks and registered trademarks

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 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 are simulated.
- Weights 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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^{*1} H.264 and MPEG-4 are alternative.
*2 When turning on the power at -10 °C (14 °F) or lower, warming up (at least 1 hour) is required before operation and setting.