

WV-ST165 WV-ST162



HD / 1,280 x 960 H.264 Pan-tilting Network Camera (WV-ST165) SVGA / 800 x 600 H.264 Pan-tilting Network Camera (WV-ST162)

Key Features

- 720p HD images up to 30 fps (WV-ST165)
- 1.3 Megapixel high sensitivity MOS Sensor
- Super high resolution at SVGA/800 x 600 created by 1.3 Megapixel high sensitivity MOS Sensor (WV-ST162)
- 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 (WV-ST165)
- Full frame (Up to 30 fps) transmission at SVGA (800 x 600) image size (WV-ST162)
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- High sensitivity with Day & Night (Electrical) function:
 0.6 lx (Color), 0.5 lx (B/W) at F2.2
- Digital Noise Reduction: 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.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene(60Hz) / ELC (maximum exposure time)
- Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.
- ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.
- 2x extra zoom at VGA resolution
- 8x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas,
 15 steps sensitivity level and 10 steps detection size
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD works with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- · Camera title display: Up to 20 alphanumeric characters on the browser
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic alarm protocol output.

- 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.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264 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 images can be transmitted over HTTP protocol.
- Multi-language: English / İtalian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Onvif compliant model
- Panning/tilting and Preset Map Shot function realizes wide range monitoring..(Horizontal angle:180° Vertical angle:123°)
- Easy installation: Easy to adjust directions.
- Interactive communication with audio: By using the audio output connector receiving audio from the cameras on a PC and transmitting audio from the PC to the cameras is available.
- Best effort on Transmission priority: In accordance with the network bandwidth,
 H.264 images will be transmitted with the bit rate varying between the maximum and minimum bit rates that are set for "Max bit rate (per client)".

Standard Accessories

Installation Guide	SD Card Cover1 pc.
*1 The CD-ROM contains the operating instructions and *2 This label may be required for network management. The network administrator shall retain the code label.	different kinds of tool software programs.

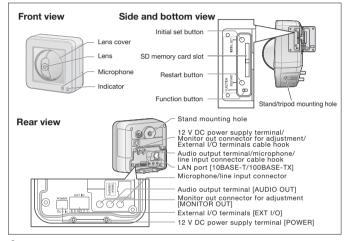
Specifications

TV System			NTSC PAL		
Camera	Image Sens	sor	1/4 type MOS Sensor		
	Effective Pix	xels	Approx. 1.3 megapixels		
	Scanning M	lode	Progressive		
	Scanning A		3.52 mm (H) x 2.64 mm (V) (7/50" (H) × 1/10" (V))		
	Minimum III		Color: 0.6 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))		
	IVIII III IIII III	ummation			
			Color: 0.038 lx (F2.2, Auto slow shutter: Max. 16/30s, Gain:On(High)) 1		
			BW: 0.5 lx (F2.2, Auto slow shutter: Off (1/30s), Gain:On(High))		
			BW: 0.031 lx (F2.2, Auto slow shutter: Off (16/30s), Gain:On(High)) 11		
	White Balar	nce	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light Contro		Indoor scene (50 Hz / 60 Hz) / ELC		
	Shutter Speed		ELC (1/30 s), ELC (3/100 s), ELC (3/120 s), ELC (2/100 s), ELC (2/120 s),		
			ELC (1/100 s), ELC (1/120 s), ELC (1/250 s), ELC (1/500 s), ELC (1/1,000 s),		
			ELC (1/2,000 s), ELC (1/4,000 s), ELC (1/10,000 s)		
	Wide Dynam	nic Range	ON / OFF		
			ON / OFF		
	Adaptive Black Stretch AGC Electronic Sensitivity UP Day & Night(electrical) Dynamic Range Digital Noise Reduction		ON / OFF ON (HIGH) / ON (MID) / ON (LOW) / OFF OFF (1/30 s), Max. 2/30 s, Max. 4/30 s, Max. 6/30 s, Max. 10/30 s, Max. 16/30 s		
			OFF / AUTO		
			24 dB typ. (WDR: ON, Light Control: ELC) HIGH / LOW		
	Digital Noise Reduction				
	Video Motion Detection Privacy Zone Camera Title (OSD)		ON / OFF, 4 areas available ON / OFF (up to 2 zones available) Up to 20 characters (alphanumeric characters, marks) , On/Off		
Lens	Focal Lengt		1.95 mm		
	Zoom Ratio		Extra zoom: 2x (at VGA resolution)		
	Angular Fiel		Horizontal: 85 °, Vertical: 68 °		
		Aperture Ratio			
	Focusing Ra		0.5 m ~ ∞		
Pan and Tilt	Panning Ran		-47.5°- +47.5°		
	Panning Sp		Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s		
	Tilting Rang		-45° to +10°		
	Tilting Spee		Manual: Approx. 5 °/s - 80 °/s, Preset: Up to approx. 80 °/s		
		reset Positions	64		
	PTZ Position Display		ON / OFF		
	Self Return Map Shot		10 s/ 20 s/ 30 s/ 1 min/ 2 min/ 3 min/ 5 min/ 10 min/ 20 min/ 30 min/ 60 min		
			Preset map-shot		
Browser GIII	Camera Control		Brightness, AUX ON / OFF		
Diowaci doi	Display Mod		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	Display Mod	de			
			screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Zoom		extra zoom(1x - 2x) and the electronic zoom (higher zoom factors, up to 16x).		
	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 Volume adjustment: Low / Middle / High,		
			Audio Output: ON / OFF Volume adjustment: Low / Middle / High		
	SD Memony I	Data Download	Still or motion Images recorded in the SDHC/SD memory card can be downloaded.		
	System Log Supported OS '2'3 Supported Browser		English, Japanese, Italian, French, German, Spanish, Chinese, Russian		
			Up to 100 (Internal), Up to 4,000 (SDHC/SD memory when the		
			recording format is set to JPEG.) error logs		
			Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP		
			Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),		
			Windows® Internet Explorer® 7.0 (32 bit), Microsoft® Internet Explorer® 6.0 SP3		
Network	Network IE		10Base-T / 100Base-TX, RJ-45 connector (female)		
Network	Network IF				
	Image Hesolution 14	4 Aspect ratio: [4:3]	WV-ST165:		
			H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
			JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
	1	1	WV-ST162:		
		1	H.264: 800 x 600 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps		
		1			
			JPEG: 800 × 600 / VGA (640 × 480) / QVGA (320 × 240), up to 30 fps		
		Aspect ratio: [16:9]			
	1	1 1	H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps		
		1	JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps		
			WV-ST162:		
		1			
		1	H.264: 640 x 360 / 320 x 180, up to 30 fps		
			JPEG: 640 x 360 / 320 x 180, up to 30 fps		
	H.264		Constant bitrate / Best effort		
			1/3/5/7.5/10/12/15/20/30 fps		
			64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 /		
	1		4,096 / 8,192 kbps		
	1	I			
		ımage Quality	LOW / NORMAL / FINE		
			1 fps ~ 30 fps		
			UNICAST / MULTICAST		
	JPEG	Transmission Type			
	JPEG	Transmission Type Image Quality	10 steps		
	JPEG	Transmission Type Image Quality Refresh Interval	10 steps 0.1 fps ~ 30 fps		
		Transmission Type Image Quality Refresh Interval Transmission Type	10 steps 0.1 fps ~ 30 fps PULL / PUSH		
	Audio Com	Transmission Type Image Quality Refresh Interval Transmission Type pression	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	Audio Com Audio Mode	Transmission Type Image Quality Refresh Interval Transmission Type pression	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Audio Com Audio Mode	Transmission Type Image Quality Refresh Interval Transmission Type pression	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	Audio Com Audio Mode Authenticatio	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users		
	Audio Com Audio Mode Authenticatio Total Bit Rat	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 788 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
	Audio Com Audio Mode Authenticatio	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 4/ 128 / 256 / 384 / 512 / 758 4/ 712 / 758 4/ 1024 / 2048 / 4,096 / 8,192 kbps / Unlimited IPv6: TCPIIP, UDPIIP, HTTP, HTTPS, RTP, FIP, SMTP, DNS, NTP, SNMP, DHCPv6, MLD, ICMP, ARP		
	Audio Com Audio Mode Authenticatio Total Bit Rat	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF /Mic (Line) input / Audio output / Interactive (ifalf duplex) / Interactive (ifalf		
	Audio Com Audio Mode Authenticatio Total Bit Rat	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF /Mic (Line) input / Audio output / Interactive (ifalf duplex) / Interactive (ifalf		
	Audio Com Audio Mode Authenticati Total Bit Rat Supported I	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64/128/256/384/512/768/1,024/2,048/4,096/8,192 kbps / Unlimited IPA6: TOPIP, UDPIP, HTTP, HTTPS, RTP, FIP, SIMP, DINS, NTP, SNMP, DHCPA6, MID, IOMP, ARP PV44: TCPIP, UDPIP, HTTP, HTTPS, RTSP, RTP, RTP, RTP, RTP, RTP, RTP, RTP, RT		
	Audio Com Audio Mode Authenticati Total Bit Rat Supported I	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 47 kbps / 16 kbp		
	Audio Com Audio Mode Authenticati Total Bit Rat Supported I	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (line) input / In		
	Audio Com Audio Mode Authenticati Total Bit Rat Supported I	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA: TCPIP, LOPIP, HTTP, HTTPS, RTP, FIP, SMTP, DNS, DNP, SNMP, DHCPA, MID, (DMP, APP IPA+ TCPIPL, DDPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) Manufactured by Panasonic		
	Audio Com Audio Mode Authenticati Total Bit Rat Supported I	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (line) input / In		
	Audio Com Audio Mode Authenticati Total Bit Rat Supported I	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps G.726 (ADPCM) 47 kbps / 16 kbp		
	Audio Com Audio Mode Authenticati Total Bit Rat Supported I	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio outpt / Interactive (Half outpex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Pie-t CPIP, UDPIP, HTP, HTPS, RTP, FP, SMTP, DNS, NTP, SMMP, DHCP-6, MLD, ICMP, ARP IP-4: TCPIP, UDPIP, HTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SMMP, UPPP, IGMP, IGMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) Manufactured by Panasonic SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB SD memory card: 256 MB, 512 MB, 1 GB, 2 GB		
	Audio Com Audio Mode Authentication Total Bit Rat Supported I FTP Client No. of Simult SDHC/SD Mem	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol taneous Users ory Card (Option)	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA: TCPIP, LOPIP, HTTP, HTTPS, RTP, FIP, SMTP, DNS, DNP, SNMP, DHCPA, MID, CMIP, ARP IPA-LTCPIP, LOPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DNS, NTP, SNMP, UPP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) Manufactured by Panasonic SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB SD memory card: 256 MB, 512 MB, 1 GB, 2 GB except miliSD card and microSD card)		
	Audio Comp Audio Mode Authentication Total Bit Rat Supported In FTP Client No. of Simult SDHC/SD Mem	Transmission Type Image Quality Refresh Interdal Transmission Type pression e on for Audio te Protocol taneous Users ory Card (Option)	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited Piex CEPIP, UDPIP, HTT, HTTS, HTP, FIR SMP, DNS, MP, SNMP, DNAP, DLCNG, MLD, COMP, ARP IPV4. TCPI/P, UDPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP, SMTP, DHCP, DNS, DNS, MTP, SNMP, LPMP, IGMP, IGMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) Manufactured by Panasonic SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB SD memory card: 256 MB, 512 MB, 1 GB, 2 GB except miniSD card and microSD card) ON / OFF (with XML notification)		
	Audio Comp Audio Mode Authenticatii Total Bit Rat Supported I FTP Client No. of Simult SDHC/SD Mem	Transmission Type Image Quality Refresh Interval Transmission Type pression e on for Audio te Protocol taneous Users ory Card (Option)	10 steps 0.1 fps - 30 fps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited IPA: TCPIP, LOPPIP, HTTP, HTTPS, RTP, FIP, SMTP, DNS, DNP, SNMP, DHCPA, MID, (DMP, ARP IPA-LTCPIP, LOPPIP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPPP, IGMP, ICMP, ARP Alarm image transmission, FTP periodic transmission Up to 14 users (Depends on network conditions) Manufactured by Panasonic SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB SD memory card: 256 MB, 512 MB, 1 GB, 2 GB except miliSD card and microSD card)		

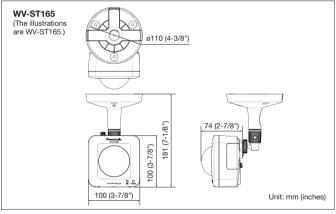
TV System			NTSC	PAL	
Alarm	Alarm Source		VMD, Command alarm		
	Alarm Actions		SDHC/SD memory recording, E-mail notification, Indication on browser,		
			FTP image transfer, Panasonic protocol output		
	Alarm Log		With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs		
	Schedul	е	VMD		
Input/ Output	t/ Output Monitor Output (for adjustment) Microphone/Line Input		VBS: 1.0 V [p-p]/75 Ω,	VBS: 1.0 V [p-p]/75 Ω,	
			NTSC composite, ø3.5 mm mini jack	PAL composite, ø3.5 mm mini jack	
			ø3.5 mm monaural mini jack, Input impedance: Approx. 2.2 kΩ		
		For microphone input	Applicable microphone: Plug-in power type, Supply voltage: 3.3 V ±0.5 V		
		For line input	Input level: Approx10 dBV		
	Audio Compression		ø3.5 mm stereo mini jack (monaural output),Output impedance: Approx. 560 Ω, Line level		
	External I/O Terminals		ALARM IN 1, ALARM IN 2/ ALARM OUT, ALARM IN 3/ AUX OUT, GND, 12 V DC		
General	neral Safety/EMC Standard		UL (UL60950-1), FCC (Part15 ClassA),	CE, IEC60950-1	
			C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
			DOC (ICES003 ClassA)		
	Power Source and Power Consumption		PoE (IEEE802.3af compliant), 12V DC		
			PoE: 130 mA (Class 2 device), 12 V DC: 430 mA		
	Ambient Operating Temperature		0 °C ~ +40 °C (32 °F ~ 104 °F)		
	Ambient Operating Humidity		Less than 90 % (no condensation)		
Dimensi		ons	100 mm (W) x 100 mm (H) x 74 mm(D) (3-47/50" x 3-47/50" (H) x 2-23/25")		
			(excluding projection)		
	Mass (approx.)		Main body 345 g (0.76 lbs.)		
	Finish		Main body: PC/ABS resin, sail white		
			Dome section: Clear polycarbonate resin		

*1 Converted value
*2 Refer to "Notes on Windows Vista" / Windows" 7" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft" Windows "7 or Microsoft" Windows Vista".
*3 When using IPv6 for communication, use Microsoft" Windows" 7 or Microsoft" Windows Vista".
*4 Transmission for 2 streams can be individually set in the same compression method.

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.

- iPad, iPhone and iPod touch are registered trademarks of Apple Inc.

- UniPhier is a registered trademark of Panasonic Corporation.

- "Super Dynamic", "SDII", "SDII", "SDIS", "SDSLink", "i-PRO" and "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation. ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- 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.
- Masses and dimensions are approximate.
 Specifications are subject to change without notice.
 These products may be subject to export control regulations.

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