Panasonic

BUSINESS

Super Dynamic Weather Resistant Full HD PTZ Dome Network Camera WV-SW598



Full HD / 1,920 x1,080 H.264 Weather Proof Camera featuring Optical 30x zoom and Super Dynamic

Key Features

- 1080p Full HD images up to 30 fps
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS image sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size
- 30x optical zoom
- $90x\ extra$ optical zoom at $640x360\ resolution$ with 12x digital zoom enabling 1080x zoom.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- High sensitivity with Day/Night (ICR*) function:
 0.5 lx (Color), 0.06 lx (B/W) at F1.6
 - * ICR: IR Cut filter Removal
- VIQS (Variable Image Quality on Specified area) technology allows the designated
 2 areas to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
 VIQS can be set on preset position (1 to 8) and except preset.
- 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:
 Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter
 Indoor scene (50 Hz / 60 Hz): Flicker caused
 by fluorescent lightning will be automatically compensated.
- 360 degrees endless Panning
- Advanced auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken very smoothly on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control. 256 speeds available for system with WV-CU950 system controller.
- Up to 256 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.
- Industrial grade Pan / Tilt / Zoom mechanism for high reliability
- VMD (Video Motion Detection) with 4 programmable detection areas,
 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 32 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser

- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger
 actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification,
 Indication on browser, Alarm terminal output, and Panasonic alarm 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.
- SDXC/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 / Italian / 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
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4x(UL50), NEMA 4x compliant.
- Dehumidification device for use in various weather conditions
- Rain wash coat dome cover
- Ambient Operating Temperature : -50 °C to +55 °C (-58 °F to 131 °F)
- Fog and Sandstorm compensation
- AEM (Auto Eyelid Mechanism) offers images that are more natural and easy to watch reducing doubled images when direction of the lens moved above the horizontal.

Standard Accessories

Otalidal d'Addessories				
• CD-ROM*1	 Front/Rear Sun Shield Fixing Screws 			
The followings are for installation. • Protection Cover				

Optional Accessories

Wall Mount Bracket	Ceiling Mount Bracket
WV-Q122A	WV-Q121B

Specifications

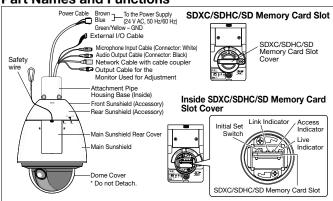
Camera	Image Sen		Approx.1/3 type MOS image sensor
	Effective P		Approx. 2.4 mega pixels
	Scanning I		Progressive scan
	Scanning A		5.38 mm (H) x 3.02 mm (V) {7/32 inches(H) x 1/8 inches(V)} Color: 0.5 lx, BW: 0.06 lx (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High))
	Minimum Illumination		Color: 0.03 lx, BW 0.004 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain:On(High))
	White Bala	ınce	AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K
	Light Cont	rol Mode	Outdoor scene: Automatic integration of ALC and ELC
			Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100
			Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 Fix shutter
	Shutter Sp	eed	Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,
			1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 (only at Super Dynamic Of
	Super Dynamic Face Super Dynamic Dynamic Range Adaptive Black Stretch Fog compensation AGC		On / Off
			On / Off (Only when Super Dynamic : On)
			105 dB typical (Super Dynamic: On, Light Control mode: Indoor) On / Off (Only when Super Dynamic: Off)
			On / Off
			On (Low, Mid, High) / Off
		Sensitivity UP	Off / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30
	Day/Night		Mode: AUTO1 / AUTO2 / AUTO3 / On / Off, Level: High / Low, with external contr
		se Reduction ion Detection	High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps
	Privacy Zo		Up to 8 zones / Up to 32 zones, Gray / Mosaic
	Image Stal		On / Off
	VIQS		Up to 2 zones at preset position 1-8 and except preset
		age Reduction	On / Off
	Camera Tit		Up to 20 characters (alphanumeric characters, marks)
_ens	Focus distance Focal Length		Limited / Unlimited 4.3 mm - 129.0 mm, 30x
	Zoom Rati		30x / 90x with extra optical zoom (at 640 x 360)
	Digital (Ele	ctrical) Zoom	12x (Max. 1080x combined with extra optical zoom at 640 x 360)
		eld of View	H: 2.6° (TELE) - 64.6° (WIDE), V: 1.6° (TELE) - 38.2° (WIDE)
		Aperture Ratio	1 : 1.6 (WIDE) - 4.7 (TELE)
	Focusing F Aperture R		2.0 m - ∞ F1.6 - Close
an and Tilt	Panning R		360° endless
	Panning S		Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controll
			Preset: up to approx. 300°/s
	Tilting Ran	ge	-15° to 195° (upward-level-downward)
			Auto Eyelid Mechanism (Double image reduction)
	Tilting Spe	ed	Selectable tilting angle: 0° / -5°/ -10° / -15 Manual: approx. 0.065°/s to 120°/s, Up to 256 steps (depending on the controlled)
		!	Preset: up to approx. 300°/s
	Proportiona	al Pan/Tilt Control	Yes
		Preset Positions	256
	Auto Mode Image Hold		preset sequence / auto pan / auto track / patrol On / Off
			On / Off
	PTZ Position Display Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 n
	Map Shot		360° map shot / preset map shot
Browser	Camera Co	ontrol	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris,
GUI			Preset position call and program, Auto mode
	Display Mo	ode	Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua
	Camera Title		screens or 16 split screen (JPEG only). 20 characters camera title availab Up to 20 alphanumeric characters
	Clock Disp		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 SD Memory Data Download GUI/Setup Menu Language		Mic (Line) Input: On / Off Volume adjustment: Low / Middle / High
			Audio Output : On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be download.
			English / Italian / French / German / Spanish / Russian / Chinese / Japanes
	System Lo	g	Up to 100 (Internal)
	Supported OS *2 *3 Supported Browser		Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error lo
			Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® Microsoft® Windows Vista®, Microsoft® Windows® XP SP3
	Supported	Browser	
	Supported	Browser	
Network	Supported Network IF	Browser	Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), Windows® Internet Explorer® 9 (32 bit)
Network	Network IF	Image Capture Mode:	Windows Internet Explore* 11 g2 bdt, Windows Internet Explore* 10 g2 bdt, Windows Internet Explore* 9 g2 bdt, Windows Internet Explore* 7 g2 bdt 10Base-T / 100Base-T X, RJ45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
Network	Network IF	Image Capture Mode:	Windows Internet Explore* 11 g2 bdt, Windows Internet Explore* 10 g2 bdt, Windows Internet Explore* 9 g2 bdt, Windows Internet Explore* 7 g2 bdt 10Base-T / 100Base-T X, RJ45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps
Network	Network IF	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode:	\(Windows\text{P internet Explorer\text{P 11 (92 bit), Windows\text{P internet Explorer\text{P 10 (22 bit), Windows\text{P internet Explorer\text{P 3 (22 bit), Windows\text{P internet P 3 (22 bit),
Network	Network IF	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9]	Windowsh Internet Explore* 18 (26 Mt, Windowsh Internet Explore*) 8 (26 Mt) Windowsh Internet Explore* 8 (26 Mt) Windowsh Internet Explore* 8 (26 Mt) 10Base-T7 (100Base-TX, RJ45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
Network	Network IF	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode:	Windowsh Internet Explorer 11 (2 bit), Windowsh Internet Explorer 10 (22 bit), Windowsh Internet Explorer 9 (24 bit), Windowsh Internet 10 (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 x 180
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3]	Windows Internet Explore® 11 (20 kt), Windows Internet Explore® 10 (20 kt), Windows® Internet Explore® 8 (20 kt), Windows® Internet Explore® 8 (20 kt), Windows® Internet Explore® 7 (20 kt), Windows® Internet Explore® 7 (20 kt), Windows® Internet Explore® 9 (20 kt), Windows® Internet Explore® 10 kt), Windows® Internet Exp
Network	Network IF	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode	Windows Internet Explorer 11 (22 bit), Windows Internet Explorer 10 (32 bit), Windows Internet Explorer 9 (32 bit), Windows Internet Interne
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate	Windows Internet Explores 11 g2 bit, Windows Internet Explorer 10 g2 bit, Windows Internet Explorer 8 g2 bit, Windows Internet Explorer 8 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 9 g2 bit, Windows Internet Explorer 9 g2 bit, Windows Internet Explorer 9 g2 bit, Windows Internet Explorer 10 g2 bit, Windows Internet 10 g2
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode	Windows Internet Explorer 11 (22 bit), Windows Internet Explorer 10 (32 bit), Windows Internet Explorer 9 (32 bit), Windows Internet Interne
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality	Windows Internet Explore® 13 (20 kl), Windows Internet Explore® 10 (20 kl), Windows® Internet Explore® 8 (20 kl), Windows® Internet Explore® 8 (20 kl), Windows® Internet Explore® 7 (20 kl), Windows® Internet Explore® 7 (20 kl), Windows® Internet Explore® 9 (20 kl), Windows® Internet Explore® 10 kl), Windows® Internet In
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval	Windowsh Internet Explores 11 26 zhl, Windowsh Internet Explorer 10 (22 bil), Windowsh Internet Explorer 8 (22 bil), Windowsh Internet Explorer 8 (22 bil), Windowsh Internet Explorer 9 (32 bil), Windowsh Internet Explorer 10 (32 bil), Windowsh Internet 10 (32 bil), Windowsh
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type	Windowsh Internet Explores* 11 g2 bit, Windowsh Internet Explores* 10 g2 bit, Windowsh Internet Explores* 8 g2 bit, Windowsh Internet Explores* 8 g2 bit, Windowsh Internet Explores* 10 g2 bit 10 Basse-T7 / 100 Basse-T7, R.J.45 connector H.264 :1,220 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG):1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps H.264 :1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG):1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 :1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fps H.264 :1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fps H.264 :1,280 x 960 / VGA(640 x 480) / CVGA(320 x 240), up to 30 fps H.264 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	Windows Internet Explores 11 g2 bit, Windows Internet Explorer 10 g2 bit, Windows Internet Explorer 8 g2 bit, Windows Internet Explorer 8 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 9 g2 bit, Windows Internet Explorer 9 g2 windows Internet Explorer 9 g2 bit, Windows Internet Page 10 g2 bit, Window
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Qauality Refresh Interval Transmission Type Image Quality Refresh Interval	Windowsh Internet Explores 11 26 zhl, Windowsh Internet Explorer 10 (22 bil), Windowsh Internet Explorer 8 (22 bil), Windowsh Internet Explorer 8 (22 bil), Windowsh Internet Explorer 9 (32 bil), Windowsh Internet Explorer 10 (32 bil), Windowsh Internet 10 (32 bil),
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel Mode: 1.3 mega pix	Windowsh Internet Explores 19 (20 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet 10 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh
Network	Network IF Image Resolution	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel Mode: 1.3 mega pix	Windowsh Internet Explores 19 (20 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh Internet 10 kt), Windowsh Internet 10 kt), Windowsh Internet Explorer 9 (20 kt), Windowsh Internet 10 kt), Windowsh
Network	Network IF Image Resolution H.264 *4 JPEG Audio Com	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression	Windows Internet Explores* 11 g2 bit, Windowse Internet Explore* 10 g2 bit, Windowse Internet Explore* 8 g2 bit, Windowse Internet Explore* 8 g2 bit, Windowse Internet Explore* 7 g2 bit Windowse Internet Explore* 7 g2 bit 10 Base-T7 / 100 Base-T7, R.J.45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960
Network	Network IF Image Resolution H.264 *4 JPEG Audio Comp Audio Mode Authenticat	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1 mage Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression pression	Windows Internet Explores 11 g2 bit, Windows Internet Explorer 10 g2 bit, Windows Internet Explorer 8 g2 bit, Windows Internet Explorer 8 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 7 g2 bit, Windows Internet Explorer 7 g2 bit 10 Base-T7 / 100Base-TX, RJ45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264 / 1286 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.265 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.267 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.268 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.269 / 1280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.260 x 960 x 9
Network	Network IF Image Resolution H.264 '4 JPEG Audio Complex Audio Moda Authenticat Total Bit Ra	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Page Page Transmission Type Pression Pre	Windows Internet Explores 11 (2 bit), Windows Internet Explores 9 (2 windows) Internet Explores 8 (2 bit), Windows Internet Explores 8 (2 bit), Windows Internet Explores 7 (2 bit) 10Base-TZ / 100Base-TZ, RJ45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(940 x 480) / QVGA(320 x 240), up to 30 fps H.264 : 1,280 x 960 / VGA(940 x 480) / QVGA(320 x 240), up to 30 fps H.264 : 1,280 x 960 / VGA(940 x 480) / QVGA(320 x 240), up to 30 fps H.264 : 1,280 x 960 / VGA(940 x 480) / QVGA(320 x 240), up to 30 fps H.264 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps - 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AC6 for audio recording and sound detection 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 / Unlimit
Network	Network IF Image Resolution H.264 *4 JPEG Audio Comp Audio Mode Authenticat	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Page Page Transmission Type Pression Pre	Windows Internet Explores 11 g2 bit), Windows Internet Explores 9 g2 windows Internet Explores 8 g2 bit), Windows Internet Explores 9 g2 bit), Windows Internet Explores 9 g2 bit), Windows Internet Explores 9 g2 windows Internet 9 g2 w2 windows Internet 9 g2 w2 windows Internet 9 g2 w2 windows Internet 9
Network	Network IF Image Resolution H.264 '4 JPEG Audio Complex Audio Moda Authenticat Total Bit Ra	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Page Page Transmission Type Pression Pre	Windows Internet Explores* 11 g2 bit, Windows Internet Explores* 10 g2 bit, Windows Internet Explores* 8 g2 bit, Windows Internet Explores* 8 g2 bit, Windows Internet Explores* 10 g2 bit, Windows Internet Explores* 10 g2 bit, Windows Internet Explores* 10 g2 bit, Windows* Internet Windows* 10 g2 bit, Windows* Internet Wind
Network	Network IF Image Resolution H.264 '4 JPEG Audio Complex Audio Moda Authenticat Total Bit Ra	Image Capture Mode: 2 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [16:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Image Gapture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Transmission Type Image Quality Image Imag	Windows Internet Explores 11 g2 bit), Windows Internet Explorer 10 g2 bit), Windows Internet Explorer 8 g2 bit), Windows Internet Explorer 10 g2 bit), Windows Internet Explorer 9 g2 bit, Windows Internet Explorer 9 g2 bit, Windows Internet Explorer 9 g2 bit 10 Base-T / 100Base-TX, RJ45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.265 (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps H.266 / 124 / 84 / 84 / 84 / 84 / 84 / 84 / 84 /

Network	SDXC/SDHC/SD	H.264 recording (Audio recording is enable): Manual REC / Alarm REC
	Memory Card (Option)	(Pre/Post) / Schedule REC
		JPEG recording: Manual REC / Alarm REC (Pre/Post) /
		Backup upon network failure
		Compatible SD (SDHC/SDXC) card: Panasonic
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model
		*SDHC card, ** SDXC card (except miniSD card and microSD card)
	Cellular Phone Compatibility	JPEG image
	Mobile Terminal Compatibility	iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD, Command alarm, Sound detection
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification,
		Indication on browser, FTP image transfer, Panasonic protocol output
	Alarm Log	With SDXC / SDHC / SD memory card: 5,000 logs,
		without SDXC / SDHC / SD memory card: 1,000 logs
	Schedule	Alarm / VMD / Access permission / H.264 recording / Sound detection
Input/	Monitor Output	VBS: 1.0V[p-p] / 75Ω,
Output	(for adjustment)	NTSC / PAL composite, BNC Jack
•	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack
		(monaural input) (Applicable microphone: Plug-in power type)
		Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ
	Audio Output	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), ALARM IN 3 (AUX OUT)
General	Safety/EMC Standard	<safety></safety>
		UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1
		<emc></emc>
		FCC Part15 Class A, ICES-003 Class A, EN55022 Class B, EN55024
	Power Source and	AC24 V: 3.5 A, 55 W
	Power Consumption	PoE+: 470 mA, 25 W (IEEE802.3at compliant)
		POE Injector (60 W): 1.0 A, 50 W
	Ambient Operating	AC24 V and Tested PoE Injector (60 W): -50 °C to +55 °C (-58 °F to 131 °F) * with limitations
	Temperature	POE+ : -30°C to +55°C (-22 °F to 131 °F)
	Ambient Operating Humidity	Less than 90 % (no condensation)
	Impact Protection	IEC 62262 : 2002 IK10 (Impact energy 20J)
	Water and Dust Resistance	IP66 rated water and dust resistant. Compatible with IEC60529
		measurement standard, Type 4x(UL50), NEMA 4x compliant.
	Dimensions	ø229 mm x 392 mm(H) {ø9-1/32 inches x 15-7/16 inches(H)}
		diameter of the dome 160 mm(6-5/16 inches)
	Mass (approx.)	Approx. 5.0 kg { 11.04 lbs}
	Finish	Main body : Aluminum die cast, Natural silver
		Sunshields: ASA resin coating, Natural silver
		Sunshields: ASA resin coating, inatural sliver

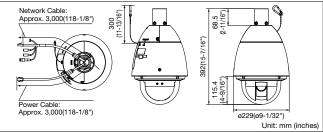
- *1 Converted value

 *2 Refer to *Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 8.1* on the provided CD-ROM for further information about system *2 Refer to *Notes on Windows Vistae/ Windows® 7 / Windows® 8.1* on the provided CD-HOM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
 *3 When using IPV6 or communication, use Microsoft® Windows® 8.1 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® 8 or Microsoft® Wind

Part Names and Functions



Appearance



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- Important
 Safety Precaution: Carefully read the operating instructions and installation manual before using this product. - Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.
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