

# **Super Dynamic Weather Resistant HD Dome Network Camera WV-SW**396



# HD/1,280 x 960 H.264 Weather Proof Camera featuring Optical 36x zoom and Super Dynamic

# **Key Features**

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- 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
- 36x optical zoom with 12x digital zoom enabling 432x zoom. 72x extra optical zoom under VGA resolution with 12x digital zoom enabling 864x zoom.
- 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.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function: 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (Wide)
- Adaptive Digital Noise Reduction: 2D-DNR and 3D-DNR integration ensures reduced noise and motion blur in various conditions.
- Superior color reproduction by primary (RGB) color filter
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor / Indoor / Fixed electronic shutter Outdoor / Indoor: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- 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
- 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 8 private areas, such as house windows and entrances/exits.
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD 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.
- SDHC/SD 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.
- Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation
- 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.
- Dehumidification device for use in various weather conditions
- $\bullet$  Built-in fan/heater/sun shield for temperature changes of –50 °C  $\sim$  +55 °C (–58 °F  $\sim$  +131 °F) (24 V AC), –30 °C  $\sim$  +55 °C (–22 °F  $\sim$  131 °F) (PoE+)
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at Does not support IEEE802.3af

#### **Standard Accessories**

• CD-ROM*1
The followings are for installation.  • 8P Alarm Cable

- Front/Rear Sun Shield Fixing Screws ...... 2 pcs. (incl. 1 spare)
- Code Label\*2 ..
- 1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs.
- \*2 This label may be required for network management.

  The network administrator shall retain the code label.

#### **Optional Accessory**

Wall Mount Bracket WV-Q122 (PAL model only)



- User License Accessory (For MPEG-4) BB-HCA5A (NTSC model) BB-HCA5CE (PAL model, Korea)\*
- User License Accessory (For H.264) BB-HCA8A (NTSC model) BB-HCA8CE (PAL model, Korea)\*

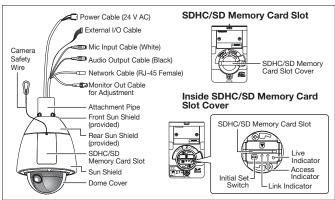
# **Specifications**

TV System Camera	ficatio		NTSC	PAL
	Imaga San		1/4 type MOS Sensor	PAL
Callicia	Image Sensor Effective Pixels		Approx. 1.3 megapixel	
	Scanning I		Progressive scan	
	Scanning /		3.6 mm (H) x 2.7 mm (V)	
		llumination		Physter 1/20 a ACC: High
	IVIIIIIIIIIIIII	liumination	Color: 0.5 lx, B/W: 0.06 lx at F1.4 (Shutter: 1/30 s, AGC: High),	
	White Bala		Color: 0.031 lx, B/W: 0.004 lx at F1.4 (Shutter: 16/30 s, AGC: High) AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K) Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter	
	Light Cont			
	Shutter Sp	eed	Fix shutter: OFF (1/30), 3/100, 3/12	
			1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
	Super Dyn		ON / OFF	
	Face Super Dynamic		ON / OFF (Only at Super Dynamic: ON)	
	Dynamic Range		52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)	
	Adaptive Black Stretch		ON / OFF	
	AGC		ON (LOW, MID, HIGH ) / OFF	
	Electronic	Sensitivity UP	OFF, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s	
	Black and White Mode		Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF	
	Digital Noise Reduction		High / Low	
		ion Detection	4 areas, Sensitivity: 15 steps, Dete	ction size: 10 steps
			Up to 8 zones, Gray / Mosaic	
	Privacy Zone Auto Image Stabilizer		ON / OFF	
	Camera Title (OSD)		Up to 20 alphanumeric characters (3 selectable character sizes)	
Lens	Focal Leng		3.3 mm ~ 119 mm	(3 Selectable Character Sizes)
Lens				under VCA\
	Zoom Ratio		36x / 72x with extra optical zoom (under VGA) 12x (Max. 864x combined with extra optical zoom under VGA)	
	Digital (Electronic) Zoom			
	Angular Field of View Maximum Aperture Ratio		H: 1.47° (Tele) ~ 60.15° (Wide), V: 1.2° (Tele) ~ 46.3° (Wide)  1 : 1.4 (Wide) ~ 4.8 (Tele)	
	Focusing Range Aperture Range		2.0 m ~ ∞	
			F1.4 ~ 22, Close  360° endless  Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller)	
Pan and Tilt				
	Panning Speed			256 steps (depending on the controller)
			Preset: up to approx. 400°/s	
	Tilting Ran	ge	-15° ~ 185° (upward-level-downward)	
			Tilting angle limit: 10° / 5° / 3° / 0°	/ -3° / -5° / -10° / -15°
	Tilting Spe	ed	Manual: approx.0.065°/s ~ 120°/s, Up to	256 steps (depending on the controller)
			Preset: up to approx. 400°/s	
		l Pan/Tilt Control	Yes	
	Number of	Preset Positions	256	
	Auto Mode	)	preset sequence / auto pan / auto track / patrol	
	Image Hole	d	ON / OFF	
	PTZ Position Display		ON / OFF	
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min /	
			30 min / 60 min	
	Map Shot		360° map shot / preset map shot	
Browser GUI	Camera Co	ontrol	Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris,	
			Preset position call and program, Auto mode	
	Display Mo	nde	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.	
	Camera Ti	tlo	Up to 20 alphanumeric characters	
	Clock Disp		Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual/AUTO)	
	Alarm Control One Shot Capture		Reset	
		Japture	A still picture will be displayed on a newly opened window.  Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,	
	Audio			
	00.14	D . D	Audio Output: ON / OFF Volume a	
	SD Memory	y Data Download	Still or motion images recorded in	tne SDHC/SD memory card can
			be downloaded.	
	GUI/Setup	Menu Language	English, French	English, French, Italian, Spanish,
			(Installation required for French)	German, Russian (Installation
				required except for English)
	System Log		Up to 100 (Internal), Up to 4,000 (S	DHC/SD memory when the
	.,		recording format is set to JPEG.) e	
	Supported OS		Microsoft® Windows® 7 Professional 64 bit/32 bit,	
	Supported	05	Microsoft® Windows Vista® Business SP1 32 bit,	
	Supported	105		
	Supported	105		ss SP1 32 bit,
	Supported	105	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession	ss SP1 32 bit, onal SP3
			Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be sa	ess SP1 32 bit, onal SP3 ame as selected GUI language.
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			Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professic The language of the OS must be si Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 8.0 (Microso	uss SP1 32 bit, onal SP3 ame as selected GUI language. ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit) ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit)
			Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be so Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 8.0 (Microso Windows® Internet Explorer® 7.0 (Microso	iss SP1 32 bit, onal SP3 ame as selected GUI language. ft® Windows® 7 Professional 64 bit/32 bit) ft® Windows® 7 Professional 64 bit/32 bit) oft® Windows Vista® Business SP1 32 bit)
Network	Supported	Browser	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 7.0 (Microsoft® Internet Explore® 7.0 (Microsoft® Internet Explore® 6.0 SP3 (Mi	sss SPI 32 bit, nnal SP3 me as selected GUI language. It <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, It <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, it <sup>®</sup> Windows Vista <sup>®</sup> Business SPI 32 bit) crosoft <sup>®</sup> Windows <sup>®</sup> XP Professional SP3;
Network	Supported  Network IF	Browser	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be st Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 8.0 (Microso Windows® Internet Explorer® 7.0 (Microso Windows® Internet Explorer® 6.0 SP3 (Microsoft® Internet Explorer®	sss SP1 32 bit, nnal SP3 ame as selected GUI language. the Windows® 7 Professional 64 bit/32 bit) the Windows® 7 Professional 64 bit/32 bit) the Windows Vista® Business SP1 32 bit) crosoft® Windows® XP Professional SP3, nnector
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Network	Supported  Network IF  Image  Resolution	Browser	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 6.0 Microso Microsoft® Internet Explore® 6.0 SP3 (Mi 10Bass=T7 100Bass=TX, RJ-45 co Hz.64: 1,280 v 960 / 800 × 600 / VGA (64 MPEG-4: VGA (640 × 480) / QVGA	sss SP1 32 bit, nnal SP3 me as selected GUI language. ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows Vista <sup>®</sup> Business SP1 32 bit) crosoft <sup>®</sup> Windows Vista <sup>®</sup> Business SP1 32 bit) crosoft <sup>®</sup> Windows VP Professional SP3; nnector 0 × 480 / QVGA (320 × 240), up to 30 fp; (320 × 240), up to 30 fps
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Network	Supported  Network IF  Image  Resolution	Browser  Aspect ratio: [4:3]	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professort® The language of the OS must be st Windows® Internet Explore® 8.0 Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 7.0 SP3 (Microsoft® 7.0 SP3 (Microso	sss SP1 32 bit, nonal SP3 ame as selected GUI language. ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit ft <sup>®</sup> Windows Vista <sup>®</sup> Business SP1 32 bit) crosoft <sup>®</sup> Windows <sup>®</sup> XP Professional SP3 nnector 0 × 480/ CWGA (320 × 240), up to 30 fp (320 × 240), up to 30 fps × 600 / VGA (640 × 480) /
Network	Supported  Network IF  Image  Resolution	Browser  Aspect ratio: [4 : 3]  Aspect ratio:	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 6.0 SP3 (Microso Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Internet Explorer® 6.0 SP3 (Mi	sss SP1 32 bit, nnal SP3 me as selected GUI language.  ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows Vista® Business SP1 32 bit, crosoft® Windows® XP Professional SP3 nnector 0 × 480 / OVGA (320 × 240), up to 30 fp (320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps
Network	Supported  Network IF Image Resolution *2 *3	Browser  Aspect ratio: [4:3]  Aspect ratio: [16:9]	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professic The language of the OS must be si Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 6.0 SP3 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 4.0 SP3 (Microsoft® 4.0 SP3 (	sss SP1 32 bit, nnal SP3 ame as selected GUI language. ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® XP Professional SP3 nnector 0 × 480) / OVGA (320 × 240), up to 30 fp (320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 220 × 180, up to 30 fps × 380 / 320 × 180, up to 30 fps
Network	Supported  Network IF  Image  Resolution	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be st Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 3.0 (Microso Microsoft® Internet Explore® 6.0 SP3 Mindows® Internet Explore® 6.0 SP3 Mindows® Internet Explore® 6.0 SP3 Mindows Windows® Internet Explore® 6.0 SP3 Mindows Windows® Internet Explore® 6.0 SP3 Mindows Windows	sss SP1 32 bit, nonal SP3 ame as selected GUI language. ft® Windows® 7 Professional 64 bit/32 bit; ft® Windows® 7 Professional 64 bit/32 bit; ft® Windows Vista® Business SP1 32 bit; orcsoft® Windows® XP Professional SP3 nnector 0 x 480/ CVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) /  20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Tame Rate	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 6.0 SP3 (Microso Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Internet Explorer® 6.0 SP3 (Mi 10Bass=T / 100Bass=TX, RJ-45 co H264: 1,280 × 960 / 800 × 600 / 400 (MPEG-4: VGA (640 × 480) / QVGA MPEG-4: VGA (640 × 480) / QVGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,780 × 720 / 640 Constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps	sss SP1 32 bit, nnal SP3 me as selected GUI language.  ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® XPS Professional SP3 nnector 0 x 480) (VGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) / 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 x 75 x 7.5 / 10 / 12 / 15 / 20 / 30 fps
Network	Supported  Network IF Image Resolution *2 *3	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 7.0 SP4 (Microsoft® 7.0 SP4 (Mic	sss SP1 32 bit, nnal SP3 ame as selected GUI language. fte® Windows® 7 Professional 64 bit/32 bit fte® Windows® 7 Professional 64 bit/32 bit fte® Windows® 7 Professional 64 bit/32 bit fte® Windows® 7 Professional SP3 nnector 0 × 480) / OVGA (320 × 240), up to 30 fp (320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 380 / 320 × 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 024 / 1,536 / 2,048 / 3,072 /
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4	Browser    Aspect ratio: [4 : 3]     Aspect ratio: [16 : 9]     Transmission Mode     Frame Rate     Bit Rate/Client	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be st Windows® Internet Explore® 3.0 Microso Windows® Internet Explore® 9.0 Microso Windows® Internet Explore® 7.0 Microso Microsoft® Internet Explore® 7.0 Microso Microsoft® Internet Explore® 6.0 SP3 Min 10Base-T / 10DBase-TX, RJ-45 co H.264: 1,280 × 960 / 800 × 600 / VGA (624 × 2480) / QVGA (326 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3.0 JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 3.0 JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 3.0 MJPEG (MJPEG): 1,260 × 720 / 640 × 360 / 3.0 MJPEG (MJPEG): 1,260 × 720 / 640	sss SP1 32 bit, nnal SP3 ame as selected GUI language. fte® Windows® 7 Professional 64 bit/32 bit fte® Windows® 7 Professional 64 bit/32 bit fte® Windows® 7 Professional 64 bit/32 bit fte® Windows® 7 Professional SP3 nnector 0 × 480) / OVGA (320 × 240), up to 30 fp (320 × 240), up to 30 fps × 600 / VGA (640 × 480) / 20 × 180, up to 30 fps × 380 / 320 × 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 024 / 1,536 / 2,048 / 3,072 /
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Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4	Browser    Aspect ratio: [4 : 3]     Aspect ratio: [16 : 9]     Transmission Mode     Frame Rate     Bit Rate/Client	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be st Windows® Internet Explore® 3.0 Microso Windows® Internet Explore® 9.0 Microso Windows® Internet Explore® 7.0 Microso Microsoft® Internet Explore® 7.0 Microso Microsoft® Internet Explore® 6.0 SP3 Min 10Base-T / 10DBase-TX, RJ-45 co H.264: 1,280 × 960 / 800 × 600 / VGA (624 × 2480) / QVGA (326 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3.0 JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 3.0 JPEG (MJPEG): 1,280 × 720 / 640 × 360 / 3.0 MJPEG (MJPEG): 1,260 × 720 / 640 × 360 / 3.0 MJPEG (MJPEG): 1,260 × 720 / 640	sss SP1 32 bit, nnal SP3 me as selected GUI language.  ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® XP Professional SP3 nnector 0 x 480 / 0VGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) / 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 24 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 181 x
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 9.0 (Microso Windows® Internet Explorer® 6.0 SP3 (Microso Microsoft® Internet Explorer® 6.0 SP3 (Mi 10Bass=T / 100Bass=TX, RJ-45 co H264: 1,280 × 960 / 800 VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 VGA (630 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 3 JPEG (MJPEG): 1,280 × 720 / 640 constant bitrate / Framerate priorit 1/3/5/7.5/10/15/20/30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1 4,096 / 8,192* kbps / Unlimited * H.	sss SP1 32 bit, nnal SP3 me as selected GUI language.  ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® 7 Professional 64 bit/32 bit, ft® Windows® XP Professional SP3 nnector 0 x 480 / 0VGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) / 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 24 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y 181 x
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client  Image Quality Refresh Interval Transmission Type	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professis The language of the OS must be st Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 7.0 SP4 (Microsoft® 7.0 SP4 (Micr	sss SP1 32 bit, nnal SP3 me as selected GUI language.  ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® XP Professional SP3 nnector 0 x 480 / 0 VIGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VIGA (640 x 480) / 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 x 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 0 x 4 / 1,536 / 2,048 / 3,072 / 1.264 mode only
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4 *2	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Aspect ratio: Inasmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professic The language of the OS must be si Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 6.0 SP3 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft® 6.0 SP3 (	sss SP1 32 bit, nnal SP3 me as selected GUI language.  ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® XP Professional SP3 nnector 0 x 480 / 0 VIGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VIGA (640 x 480) / 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 x 1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 0 x 4 / 1,536 / 2,048 / 3,072 / 1.264 mode only
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4 *2	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Transmission Type Transmission Type Transmission Type Transmission Type	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professor The language of the OS must be st Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 7.0 Microsoft®	sss SP1 32 bit, nonal SP3 ame as selected GUI language. ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit ft <sup>®</sup> Windows Vista <sup>®</sup> Business SP1 32 bit present Windows <sup>®</sup> XP Professional SP3 mector 0 × 480/ 70VGA (320 × 240), up to 30 fp (320 × 240), up to 30 fp × 600 / VGA (640 × 480) / 220 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort 1 1 / 3 / 5 / 7 / 5 / 10 / 12 / 15 / 20 / 30 fps / 3 / 3 / 3 / 3 / 4 s / 5 s
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4 *2  JPEG (MJPEG) Audio Con	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type Image Publish Transmission Type Transmission Type Transmission Type Transmission Type Transmission Type	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession The language of the OS must be st Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 1.0 SP3 (Microsoft® 1.	sss SP1 32 bit, noral SP3 ame as selected GUI language.  ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows Vistas <sup>®</sup> Business SP1 32 bit, crosoft <sup>®</sup> Windows Vistas <sup>®</sup> Business SP1 32 bit, annector 0 x 480/ (OVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) /  20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1   1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s
Network	Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Quality Transmission Type Image Publish Transmission Type Transmission Type Transmission Type Transmission Type Transmission Type	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professic Microsoft® Windows® XP Professic The language of the OS must be si Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 6.0 SP3 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 SP3 (Microsoft® Internet Explore® 7.0 SP3 (Microsoft® Internet Explore® 7.0 SP3 (Microsoft® 1.0 SP3 (Microsoft® 7.0 Microsoft® 7.0 Microsoft® 7.0 Microsoft® 7.0 SP3 (Microsoft® 7.0 Microsoft® 7.0 Micro	sss SP1 32 bit, noral SP3 ame as selected GUI language.  ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows Vistas <sup>®</sup> Business SP1 32 bit, crosoft <sup>®</sup> Windows Vistas <sup>®</sup> Business SP1 32 bit, annector 0 x 480/ (OVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) /  20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1   1/3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 024 / 1,536 / 2,048 / 3,072 / 1,264 mode only 2 s / 3 s / 4 s / 5 s
Network	Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type pression	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Professor The language of the OS must be st Windows® Internet Explore® 8.0 (Microso Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 7.0 (Microsoft® 1.0 (Microsoft® 7.0 (Microsoft® 1.0 (Microsoft® 7.0	sss SP1 32 bit, nonal SP3 ame as selected GUI language. ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® XP Professional SP3 nnector 0 x 480) / OVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) / 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 02 4 / 1,536 / 2,048 / 3,072 / 4.264 mode only 2 s / 3 s / 4 s / 5 s  , G.711 64 kbps ut / Interactive (Half duplex) /
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4 *2  JPEG (MJPEG) Audio Con Audio Moc  Authentica	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality Iransmission Type Image Quality Transmission Type Image Guality Image Guali	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft®	sss SP1 32 bit, nonal SP3 ame as selected GUI language.  ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows <sup>®</sup> 7 Professional 64 bit/32 bit, ft <sup>®</sup> Windows 8 Trofessional 64 bit/32 bit, ft <sup>®</sup> Windows 8 SP1 32 bit, crosoft <sup>®</sup> Windows 9 SP1 32 bit, crosoft <sup>®</sup> Windows 9 XP Professional SP3 nnector 0 x 480 / OVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VGA (640 x 480) /  20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps y / Best effort 1 1 / 3 / 5 / 7 5 / 10 / 12 / 15 / 20 / 30 fps 024 / 1,536 / 2,048 / 3,072 / 1.264 mode only 2 s / 3 s / 4 s / 5 s  G.711 64 kbps ut / Interactive (Half duplex) / seers
Network	Network IF Image Resolution '2 '3 H.264/ MPEG-4 '2 JPEG (MJPEG) Audio Con Audio Moc Authentica	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type upression fee  tition for Audio ate	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession He language of the OS must be sa Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 9.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 6.0 SP3 (Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 Microsoft® Internet Explore® 7.0 SP3 Microsoft® 7.0 M	sss SP1 32 bit, nonal SP3 ame as selected GUI language. ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® XP Professional SP3 nnector 0 × 480) / CVGA (320 × 240), up to 30 fps (320 × 240), up to 30 fps × 360 / 320 × 480) / 220 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 0.24 / 1,536 / 2,048 / 3,072 / 1.264 mode only 2 s / 3 s / 4 s / 5 s  d. 3.711 64 kbps ut / Interactive (Half duplex) / sers / 2,048 / 4,096 / 8,192 kbps / Unlimited sers / 2,048 / 4,096 / 8,192 kbps / Unlimited
Network	Supported  Network IF Image Resolution *2 *3  H.264/ MPEG-4 *2  JPEG (MJPEG) Audio Con Audio Moc  Authentica	Browser  Aspect ratio: [4 : 3]  Aspect ratio: [16 : 9]  Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type upression fee  tition for Audio ate	Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession The language of the OS must be si Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 3.0 (Microso Windows® Internet Explore® 7.0 (Microso Microsoft® Internet Explore® 6.0 SP3 (Microsoft®	sss SP1 32 bit, nonal SP3 ame as selected GUI language. ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® 7 Professional 64 bit/32 bit ftf® Windows® 7 Professional 64 bit/32 bit ftf® Windows® 7 Professional 64 bit/32 bit ftf® Windows® XP Professional SP3 nnector 0 x 480) / QVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / VVGA (640 x 480) / 20 x 180, up to 30 fps y / Best effort 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps y / Best effort 2 x 3 x / 4 x / 5 s  , G.711 64 kbps ut / Interactive (Half duplex) / sers / 2,048 / 4,096 / 8,192 kbps / Unlimitee , FTP, SMTP, DNS, NTP, SNMP, DHCPv

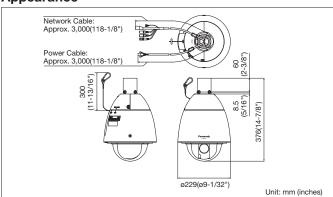
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	(Option)		EC (Post) / Backup upon network failure	
	' '	Compatible SD (SDHC) card: Panasonic 256 MB, 512 MB, 1 GB,		
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card		
	Face Detection	ON / OFF (with XML notification)		
	Cellular Phone Compatibility	JPEG image, panning/tilting/zoom control, AUX control (by access level)		
Alarm	Alarm Source	3x Terminal inputs, VMD, Command alarm		
	Alarm Actions	SD memory recording, E-mail notification, Indication on browser, Camera positioning, Preset		
		position 1 ~ 64, FTP image transfer, Terminal output, Panasonic protocol output, Auto track		
	Alarm Log	With SD memory card: 5,000 logs, Without SD memory card: 1,000 logs		
	Schedule	Alarm/VMD/Access permission, Preset position call, Position refresh, H.264 recording		
Input /	Monitor Output	1.0 V [P-P] / 75 Ω, NTSC composite,	1.0 V [P-P] / 75 Ω, PAL composite,	
Output	(for adjustment)	BNC	BNC	
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack		
		(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 (x1 each)		
General	Safety/EMC Standard	UL (UL60065-1), FCC (Part15 ClassA),	CE	
		C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
		DOC (ICES003 ClassA)		
	Power Source/	24 V AC (50 Hz / 60 Hz): approx. 43 W Heater ON		
	Consumption	PoE Plus: approx. 24.0 W (IEEE802.3at compliant, Class 4 device) Heater ON		
	Ambient Operating	−50 °C ~ +55 °C (−58 °F ~ 131 °F) (24 V AC) *4,		
	Temperature/Humidity	-30 °C ~ +55 °C (-22 °F ~ 131 °F) (PoE Plus), 90 % or less (without condensation)		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
	Dimensions	ø229 mm x 379 mm (H) (ø9-1/32" x 14-7/8" (H)), Diameter of the dome: 150 mm (5-7/8")		
	Mass (approx.) 4.6 kg (10.14 lbs.)			

<sup>\*</sup>I Images may partially covered depending on the housing brackets. \*2 H.264 and MPEG-4 are alternative. \*3 [4:3] and [16:9] are alternative. \*4 When used with a continuous power supply (camera internal temperature must be above -10°C, and installation and startup should be done at above -30°C.)

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



### **Appearance**



#### Trademarks and registered trademarks

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#### 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.

• 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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