

Super Dynamic Weather Resistant HD PTZ Dome Network Camera

(Rain Wash Coating Model)

WV-SW397B



HD / 1,280 x 720 H.264 Weather Proof Camera featuring 45x HD extra optical zoom and Super Dynamic

Key Features

- 720p HD images up to 30 fps
- Super high resolution at HD / 1,280 x 720
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 30x optical zoom, 45x HD extra optical zoom at 1,280 x 720 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:
 0.1 lx (Color), 0.013 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.

• Smart coding Technology : Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.

GOP control can save the network bandwidth and the disk space of recorder effectively.

- 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 "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 cording, 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 (H.264 / 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 /
 Portuguese / Russian / Chinese / Japanese
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard compliant.
- Dehumidification device for use in various weather conditions
- Rain wash coating dome cover
- Ambient Operating Temperature : -50 °C to +55 °C (-58 °F to 131 °F)
- Fog compensation function equipped as standard.
- 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.

Specifications

Camera	Image Ser Scanning Scanning	Mode	Approx.1/3 type MOS image sensor Progressive scan 5.35 mm (H) x 3.34 mm (V) {7/32 inches(H) x 1/8 inches(V)}		
		Illumination	Color: 0.1 k, BW: 0.013 k (F1.6, Auto slow shutter: Off (1/30s), Gain: On(High))		
			Color: 0.007 lx, BW: 0.001 lx (F1.6, Auto slow shutter: Max. 16/30s, Gain: On(High)) *1		
	White Bala		AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)		
	Light Control Mode		Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s) Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s) Fix shutter		
	Shutter Speed		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		
	Super Dynamic Face Super Dynamic		On / Off On / Off		
	Dynamic Range		105 dB typical (Super Dynamic: On, Light Control mode: Indoor) *Theoretical value. Conventional measuring method: 52 dB		
	Adaptive Black Stretch Fog compensation		On / Off On / Off (Super Dynamic and Adaptive black stretch: Off)		
	Gain (AGC) Auto slow shutter		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		
	Day/Night (ICR)		Mode: AUTO1 / AUTO2 / AUTO3 / On / Off Level : High / Low, with external control		
	Digital Noise Reduction Video Motion Detection		High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy Zone		Gray / Mosaic / Off (up to 32 zones available)		
	Image Stabilizer VIQS		On / Off On / Off Up to 2 zones at preset position 1-8 and except preset		
	Double Image Reduction		On / Off		
	Camera Title (OSD) Focus distance		On / Off Up to 20 characters (alphanumeric characters, marks) Limited {around 1.5m(4.9 ft)} / Unlimited		
Lens	Focal Len		4.3 mm - 129.0 mm {3/16 inches - 5-3/32 inches}		
	Zoom Ratio Digital (Electrical) Zoom		30x / 45x with HD extra optical zoom (at 1280 x 720) 12x (Max. 1080x combined with extra optical zoom at 640 x 360)		
	Angular Field of View		[16 : 9 mode] Horizontal: 2.6° (TELE) - 63° (WIDE) Vertical : 1.5° (TELE) - 37° (WIDE) [4 : 3 mode] Horizontal: 1.9° (TELE) - 46° (WIDE)		
	Maximum Aperture Ratio		Vertical : 1.5° (TELE) - 37° (WIDE) 1 : 1.6 (WIDE) - 4.7 (TELE)		
	Focusing Range Aperture Range		2.0 m - ∞ F1.6 - Close		
Pan and Tilt			360° endless		
	Panning Speed		Manual: approx. 0.065% to 120%, Up to 256 steps (depending on the controller) Preset : up to approx. 300% 156 to 1056 (upprox. double double upprox.		
	Tilting Range		-15° to 195° (upward-level-downward) Auto Eyelid Mechanism (Double image reduction) Selectable tilting angle: 10° / 5° / 3° / 0° 2′ / -3° 2′ / -5° 2′ / -10° 2′ / -15° 2		
	Tilting Spe		Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s		
		al Pan/Tilt Control f Preset Positions	Yes 256		
	Auto Mod		Auto track / Auto pan / Preset sequence / 360 map-shot / Patrol		
	Image Hol Camera p Self Retur	osition display	On / Off Off / Pan-Tilt degree · Zoom ratio display / Direction display 10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 mir		
_	Map Shot		360° map shot / Preset map shot		
Browser GUI	Camera Control Display Mode		Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
	Camera Title		screens or 16 split screen (JPEG only). 20 characters camera title available Up to 20 alphanumeric characters (alphanumeric characters, marks)		
	Clock Dis Alarm Cor		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual Reset		
	One Shot		A still picture will be displayed on a newly opened window.		
	Audio SD Memory Data Download GUI/Setup Menu Language		English / Italian / French / German / Spanish / Portuguese / Russian /		
	System Log		Chinese / Japanese Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is		
	Supported OS *3		set to JPEG.) error logs Microsoft® Windows® 10 Microsoft® Windows® 8.1 Microsoft® Windows® 8 Microsoft® Windows® 7		
	Support	Browcor	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit)		
	Supported	DIOMSEI	Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 10 (32 bit)		
			Windows® Internet Explorer® 9 (32 bit)		
			Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit)		
Network	Network IF		10Base-T / 100Base-TX, RJ45 connector		
	Image Resolution H.264		• Image Capture Mode [16 : 9] (30 fps) 1,280 x 720 / 640 x 360 / 320 x 180		
	JPEG (MJPEG)		• Image Capture Mode [4 : 3] (30 fps) 1,280 × 960 / 800 × 600 / 640 × 480 / 320 × 240		
		Transmission Mode	Constant bit rate / Variable bit rate / Frame rate priority /		
		Frame Rate	Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps		
	H.264 *4	Bit Rate/Client	64 / 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		
		Image Quality	Low / Normal / Fine		
			On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected.)		
		Refresh Interval Transmission Type	Unicast / Multicast		
	1050	Image Quality	0 SUPER FINE/ 1 FINE/ 2/ 3/ 4/ 5 NORMAL/ 6/ 7/ 8/9 LOW (10 steps: 0-9		
	JPEG	Refresh Interval Transmission Type	0.1 fps to 30 fps Pull / Push		
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC*5		
	Audio Mode		Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
	Authentication for Audio Total Bit Rate		Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 /		
	Supported Protocol		8,192 kbps / Unlimited IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,		
	1		SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP		

Network	FTP Client	Alarm image transmission, FTP periodic transmission		
		(When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.)		
	Maximum concurrent access number	Up to 14 users (Depends on network conditions)		
	SDXC/SDHC/SD	H.264 recording (Audio recording is enable):		
	Memory Card (Option)	Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure		
		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*, 64 GB*, 128 GB* model "SDHC card, ** SDXC card (except miniSD card and microSD card) JPEG image, paning / titing / zoom / focus control, AUX control (by access leve)		
	Cellular Phone Compatibility			
	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, Audio 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,		
	Ū.	without SDXC / SDHC / SD memory card: 1,000 logs		
	Schedule	Alarm / VMD / Access permission / H.264 recording / Audio 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 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)		
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+ DC54 V : 470 mA, 25 W (IEEE802.3at compliant)		
		Tested POE Injector (60 W) DC54 V : 1.0 A, 50 W		
	Ambient Operating	AC24 V and Tested PoE Injector (60 W) :		
	Temperature	–50 °C to +55 °C (-58 °F to 131 °F)		
		POE+ : -30°C to +55°C (-22 °F to 131 °F)		
	Ambient Operating Humidity	10 % to 90 % (no condensation)		
	Shock resistance	Compliant with IK10 (IEC62262)		
	Water and Dust Resistance	Main body : IP66 (IEC60529) compliant, Type 4 (UL50), NEMA 4		
	Dimensions	<pre>@229 mm x 392 mm(H) {@9-1/32 inches x 15-7/16 inches(H)}</pre>		
		diameter of the dome 160 mm(6-5/16 inches)		
	Mass (approx.)	Approx. 5.0 kg {11.02 lbs}		
	Finish	Main body : Aluminum die cast, Natural silver		
		Sunshields : ASA resin coating, Natural silver		
		Dome section : Clear polycarbonate resin (Rain wash coating)		
	d value	Borne Section . Glear polycarbonate ream (nam wash Codtillig)		

*1 Converted value

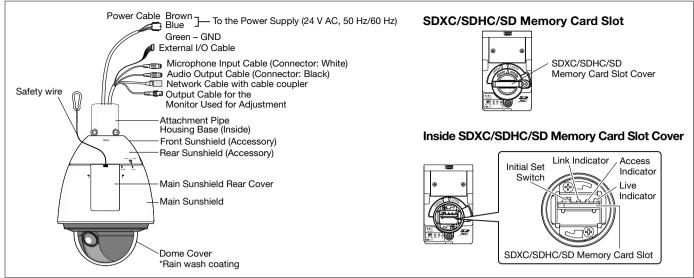
*2 If "0 °", "-3 °", "-5 °", "-10 °", or "-15 °" is selected, the area hidden by the camera housing may increase when the tilt angle of the camera is almost level. When "-15 °" is selected for "Tilt Angle", the upper half of images will be hidden.

*3 For further information about PC system requirements and precautions for when using Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows Internet Explorer«, click "Manual" - "Open" from the supplied CD-ROM and refer to "Notes on Windows® / Internet Explorer® versions".

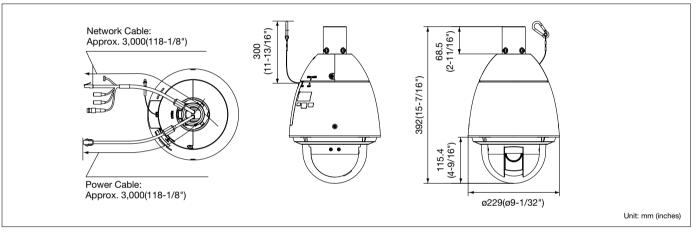
*4 Transmission for 2 streams can be individually set.

*5 When recording audio on an SD memory card, only AAC-LC (Advanced Audio Coding - Low Complexity) is used.

Part Names and Functions



Appearance



Standard Accessories

Installation Guide1 pc.					
• CD-ROM*11 pc.					
Code Label*21 pc.					
The following an factor like like					
The followings are for installation.					
Protection Cover1 pc.					
Cable coupler (used with the network cable) 1 pc.					
• 8P Alarm Cable 1 pc.					
• 24 V AC power supply connector kit1 pc.					
Front/Rear Sun Shield					
Front/Rear Sun Shield Fixing Screws 2 pcs. (incl. 1 spare)					
*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 labe					

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- Important
- Safety Precaution: Carefully read the Installation Guide and operating instructions 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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Optional Accessories

Ceiling Mount Bracket WV-Q121B	1	Wall Mount Bracket WV-Q122A	
	3		

 Masses and dimensions are approximate. · Specifications are subject to change without notice.



http://security.panasonic.com http://www.facebook.com/PanasonicNetworkCamera

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