Panasonic BUSINESS

Super Dynamic Weather Resistant HD PTZ Dome Network Camera WV-SW397B

(Rain Wash Coating Model)



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.
- 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 / İtalian / 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.

Standard Accessories

Installation Guide1 pc.	· ·			
• CD-ROM*11 pc.	Protection Cover 1 pc.			
Code Label*21 pc.	Cable coupler (used with the network cable) 1 pc. 8P Alarm Cable 1 pc.			
*1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs.	24 V AC power supply connector kit 1 pc.Front/Rear Sun Shield 1 set			
and different kinds of tool software programs.				
*2 This label may be required for network management. The network administrator shall retain the code label.	Front/Rear Sun Shield Fixing Screws 2 pcs. (incl. 1 spare)			

Optional Accessories

Ceiling Mount Bracket
WV-Q121B



Wall Mount Bracket



Specifications

speci	ficatio	ons		
Camera	Image Ser		Approx.1/3 type MOS image sensor	
	Scanning I Scanning I		Progressive scan 5.35 mm (H) x 3.34 mm (V) {7/32 inches(H) x 1/8 inches(V)}	
ı		Illumination	Color: 0.1 lx, BW: 0.013 lx	
			(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 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	
	Shutter Sp	need	Fix shutter Fix shutter: 1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250,	
	Shutter Sp.	Deed	1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000	
	Super Dyn		On / Off	
	Dynamic F	er Dynamic Range	On / Off 105 dB typical (Super Dynamic: On, Light Control mode: Indoor)	
	-	_	*Theoretical value. Conventional measuring method: 52 dB	
	Adaptive Black Stretch		On / Off	
	Fog compensation Gain (AGC)		On / Off (Super Dynamic and Adaptive black stretch: Off) On (High) / On (Mid) / On (Low) / Off	
	Auto slow shutter		Off (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30	
	Day/Night	(ICR)	Mode: AUTO1 / AUTO2 / AUTO3 / On / Off Level : High / Low, with external control	
	Digital Noise Reduction		High / Low	
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection size: 10 steps	
	Privacy Zone		Gray / Mosaic / Off (up to 32 zones available) On / Off	
	Image Stabilizer VIQS		On / Off Up to 2 zones at preset position 1-8 and except preset	
		age Reduction	On / Off	
	Camera Ti Focus dist		On / Off Up to 20 characters (alphanumeric characters, marks) Limited {around 1.5m(4.9 ft)} / Unlimited	
Lens	Focal Leng	gth	4.3 mm - 129.0 mm {3/16 inches - 5-3/32 inches}	
	Zoom Rati	ctrical) Zoom	30x / 45x with HD extra optical zoom (at 1280 x 720) 12x (Max. 1080x combined with extra optical zoom at 640 x 360)	
		eld 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) Vertical : 1.5° (TELE) - 37° (WIDE)	
	Maximum Aperture Ratio		1 : 1.6 (WIDE) - 4.7 (TELE)	
	Focusing F Aperture F		2.0 m - ∞ F1.6 - Close	
Pan and Tilt	Panning R		360° endless	
	Panning S		Manual: approx. 0.065°/s to 120°/s, Up to 256 steps (depending on the controlled	
	Tilting Ran	100	Preset : up to approx. 300°/s -15° to 195° (upward-level-downward)	
	Tilling Hair	ige	Auto Eyelid Mechanism (Double image reduction)	
			Selectable tilting angle:	
	Tilting Spe	ed	10 °/5 °/3 °/0 ° *2 /-3 ° *2 /-5 ° *2 /-10 ° *2 /-15 ° *2 Manual: approx. 0.065°/s to 120°/s, Preset: up to approx. 300°/s	
		al Pan/Tilt Control	Yes	
		Preset Positions	256	
	Auto Mode Image Hold		Auto track / Auto pan / Preset sequence / 360 map-shot / Patrol On / Off	
	Camera position display		Off / Pan-Tilt degree · Zoom ratio display / Direction display	
	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 m 360° map shot / Preset map shot	
Browser	Camera C	ontrol	Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris,	
GUI			Preset position call and program, Auto mode	
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Qua screens or 16 split screen (JPEG only). 20 characters camera title availab	
	Camera Title		Up to 20 alphanumeric characters (alphanumeric characters, marks	
	Clock Disp		Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manu	
	Alarm Control One Shot Capture		Reset A still picture will be displayed on a newly opened window.	
	Audio	-	Mic (Line) Input: On / Off Volume adjustment : Low / Middle / Hig	
	SD Memor	y Data Download	Audio Output: On / Off Volume adjustment: Low / Middle / Hig Still or motion Images recorded in the SDXC/SDHC/SD memory card can be download	
		Menu Language	English / Italian / French / German / Spanish / Portuguese / Russiar	
			Chinese / Japanese	
	System Log		Up to 100 (Internal) Up to 4,000 (SDXC/SDHC/SD memory when the recording format is	
			set to JPEG.) error logs	
	Supported	1 OS *3	Microsoft® Windows® 10 Microsoft® Windows® 8.1	
			Microsoft® Windows® 8	
			Microsoft® Windows® 7	
	Supported Browser		Microsoft® Windows Vista® 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		• Image Capture Mode [16 : 9] (30 fps)	
	H.264 JPEG (MJPEG)		1,280 x 720 / 640 x 360 / 320 x 180 • Image Capture Mode [4 : 3] (30 fps)	
			1,280 x 960 / 800 x 600 / 640 x 480 / 320 x 240	
		Transmission Mode	Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR	
		Frame Rate	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	
			0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s	
		Transmission Type Image Quality	Unicast / Multicast 0 SUPER FINE/ 1 FINE/ 2/ 3/ 4/ 5 NORMAL/ 6/ 7/ 8/9 LOW (10 steps: 0-	
	JPEG	Refresh Interval	0.1 fps to 30 fps	
	A.,.d:- 0	Transmission Type		
	Audio Compression Audio Mode		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps, AAC*5 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 /	
			8,192 kbps / Unlimited	
	Supported	I Protocol	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,	
	oupportoo	111010001	ALTER BUG LERB COURT TO THE COURT OF THE COU	
	Сарронов	riotocoi	SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP,FTP,	

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
Wichiory Said (Opti		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)
	Cellular Phone Compatibility	JPEG image, panning / tilting / zoom / focus control, AUX control (by access level)
	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
Alaim	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 / 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	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 {11.02 lbs}
	Finish	Main body : Aluminum die cast, Natural silver
		Sunshields : ASA resin coating, Natural silver
	1	Dome section : Clear polycarbonate resin (Rain wash coating)

^{*1} Converted value

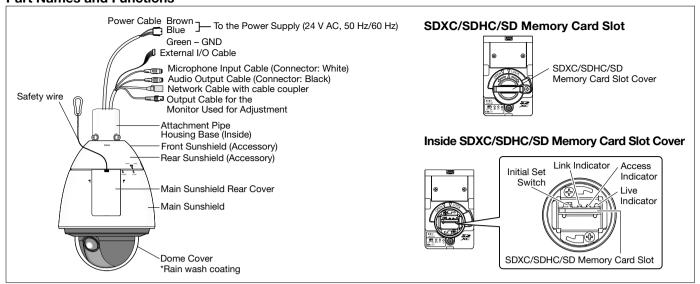
[&]quot;2 If "0 "", "-3 "", "-5 "", "-10 "", "-15 "" is selected, the area hidden by the camera housing may increase when the tilt angle of the camera is almost level. When "-15 "" is selected for "Tilt Angle", the upper half of images will be hidden.

[&]quot;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 Vista®, or Windows Internet Explorer, click "Manual" - "Open" from the supplied CD-ROM and refer to "Notes on Windows® / Internet Explorer® versions".

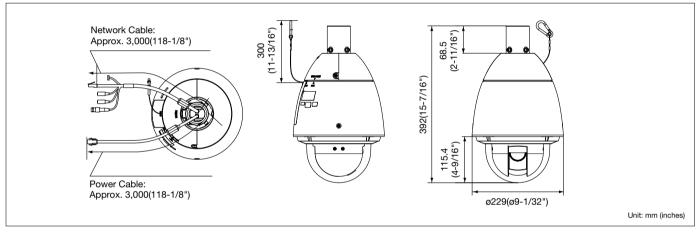
^{*4} Transmission for 2 streams can be individually set.

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

Part Names and Functions



Appearance



Trademarks and registered trademarks

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- 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.

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

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