

Super Dynamic Weather Resistant HD Dome Network Camera WV-SW395 WV-SW395A

(Rain Wash Coating Model)



HD/1,280 x 960 H.264 Weather Proof Camera featuring 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
- 18x optical zoom with 12x digital zoom enabling 216x zoom. 36x extra optical zoom under VGA resolution with 12x digital zoom enabling 432x 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 F1.6 (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
- Panning with auto flip function can be performed 0 to 360 degrees.
- 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 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 64 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 Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- 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 GUI and setup menu: English, French, Italian, Spanish, German, Russian (PAL) / English, French (NTSC) * Installation required except for English
- 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
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at (Type2 compliant, Class 4 device) * Does not support IEEE802.3af
- 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 –40 °C \sim +50 °C $(-40 \text{ °F} \sim +122 \text{ °F})$ (24 V AC), $-30 \text{ °C} \sim +50 \text{ °C}$ ($-22 \text{ °F} \sim 122 \text{ °F})$ (PoE+)
- Rain wash coating dome cover (WV-SW395A)

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)*

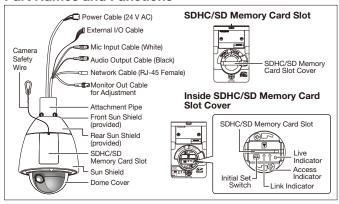
Specifications

			NTSC	PAL	
	V System amera Image Sensor		1/3 type MOS Sensor	FAL	
	Image Sensor Effective Pixels		Approx. 1.3 megapixel		
	Scanning I	Mode	Progressive scan		
	Scanning /	Area	4.8 mm (H) x 3.6 mm (V)		
	Minimum I	Illumination	Color: 0.5 Ix, BW: 0.06 Ix at F1.6 (Shutter: 1/30 s, AGC: High) Color: 0.031 Ix, BW: 0.004 Ix at F1.6 (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 Fix shutter: OFF (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 ON / OFF ON / OFF (Only at Super Dynamic: ON) S2 dB typical (Super Dynamic: ON, Light Control mode: Indoor) ON / OFF ON (LOW, MID, HIGH) / OFF ON (LOW, MID, HIGH) / OFF OFF, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF.		
	White Bala				
	Light Cont				
	Shutter Sp				
	Oriuttor Op	rccu			
	Super Dyn	amic			
		er Dynamic			
	Dynamic F				
	Adaptive E	Black Stretch			
	AGC				
		Sensitivity UP			
	Black and	White Mode			
	Digital Nai	se Reduction	Level: High / Low, with external co High / Low	ntroi	
		ion Detection	Up to 8 zones, Gray / Mosaic		
	Privacy Zo				
	Auto Image Stabilizer		ON / OFF		
	Camera Ti		Up to 20 alphanumeric characters	(3 selectable character sizes)	
Lens	Focal Leng	gth	4.7 mm ~ 84.6 mm		
	Zoom Rati		18x / 36x with extra optical zoom (under VGA)		
	Digital (Electronic) Zoom		12x (Max. 432x combined with extra optical zoom under VGA)		
	Angular Field of View		H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide)		
	Maximum Aperture Ratio		1 : 1.6 (Wide) ~ 4.6 (Tele)		
	Focusing Range Aperture Range		1.5 m ~ ∞ F1.6 ~ 22, Close		
Pan and Tilt	Aperture Range Panning Range		0° ~ 350° (With Pan-Flip: 0° ~ 360	٥)	
an unu mit	Panning S		Manual: approx. 0.5°/s ~ 100°/s, Up to		
	Panning Speed		Preset: up to approx. 300°/s		
	Tilting Range		-30° ~ 90° (upward-level-downwar	d) (With Tilt-Flip: -30°~ 210°)	
	_	-	Tilting angle limit: 10° / 5° / 3° / 0°	/ -3° / -5° / -10° / -15° / -20° *4 /	
			-25° *4 / -30° *4		
	Tilting Speed		Manual: approx.0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller)		
			Preset: up to approx. 100°/s		
	Proportional Pan/Tilt Control		Yes		
	Number of Preset Positions		64 OFF / preset sequence / auto pan / auto track		
	Auto Mode Image Hold		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 /		
	Con riotain		30 min / 60 min		
	Pan/tilt Flip *1		ON / OFF		
	Map Shot		360° map shot / preset map shot		
Browser GUI	JI Camera Control		Pan/Tilt (16 steps), Zoom, Focus, (
			Preset position call and program, Auto mode		
	Display Mo	ode	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		
	Clock Display		Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual/AUTO)		
	Alarm Control		Reset		
	One Shot Capture		A still picture will be displayed on a newly opened window.		
	A		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,		
	Audio				
			Audio Output: ON / OFF Volume a		
		y Data Download	Still or motion images recorded in		
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	SD Memor	y Data Download Menu Language	Still or motion images recorded in be downloaded. English, French	the SDHC/SD memory card can English, French, Italian, Spanish,	
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Network	SD Memor GUI/Setup System Lo Supported Supported Network If Image Resolution "2 "3 H.264/ MPEG-4 "2 JPEG (MJPEG) Audio Con Audio Moo	Menu Language 99 I OS 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 Image Quality Transmission Type Image Guality T	Still or motion images recorded in be downloaded. English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e Microsoft® Windows® 7P Profession Microsoft® Windows® 7P Profession Microsoft® Windows® 8P Profession Microsoft® Windows® 8P Profession Microsoft® Windows® 8P Microsoft® Mindows® 1P Mindows 1	the SDHC/SD memory card can lengtish, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the ror logs had 64 bit/32 bit, ses SP1 32 bit, and 64 bit/32 bit, ses SP1 32 bit, and 64 bit/32 bit seems of the second second seems of the second second seems of the second seco	
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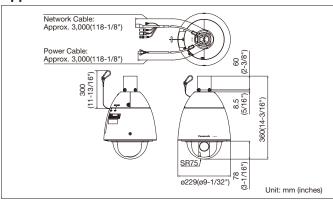
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	(Option)	JPEG recording: Manual REC / Alarm REC (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		
	Cellular Phone Compatibility	lity JPEG image, panning/tilting/zoom control, AUX control (by access level)		
	Mobile Terminal Compatibility *6	iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals		
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), FCC (Part15 ClassA),	CE (EN60065, EN55022 ClassB,	
		C-UL (CAN/CSA C22.2 No.60065),	EN55024), GOST (GOST R 51558)	
		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 Type2 compliant, Class 4 device) Heater ON		
	Ambient Operating	-40 °C ~ +50 °C (-40 °F ~ 122 °F) (24 V AC) *5,		
	Temperature/Humidity	-30 °C ~ +50 °C (-22 °F ~ 122 °F) (PoE Plus), 90 % or less (without condensation)		
	Water and Dust Resistance	IP66, IEC60529 measuring standard compatible		
	Dimensions	ø239 mm x 360.5 mm (H) (ø9-7/16" x 14-3/16" (H)), Diameter of the dome: 160 mm (6-5/16")		
	Mass (approx.)	4.6 kg (10.14 lbs.)		

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Part Names and Functions



Appearance



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 Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.
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