Panasonic

Super Dynamic Weather Resistant **HD Dome Network Camera WV-SW396 WV-SW396A**

(Rain Wash Coating Model)



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 at 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
- 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
- Built-in fan/heater/sun shield for temperature changes of -50 °C ~ +55°C (-58 °F ~ +131 °F) (24 V AC), -30 °C ~ +55 °C (-22 °F ~ 131 °F) (PoE+)
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at(Type2 compliant, Class 4 device) Does not support IEEE802.3af
- Rain wash coating dome cover (WV-SW396A)

..... 1 pc.

Standard Accessories

- CD-ROM*11 pc.
- Installation Guide.....1 pc. The followings are for installation.
- Front/Rear Sun Shield Fixing Screws 2 pcs. (incl. 1 spare) Code Label*21 pc
- *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.
- Connector Kit for 24 V AC 1 pc. 1 set
- **Optional Accessory**

• Front/Rear Sun Shield

8P Alarm Cable ..



This catalog is provided for all over the world. * Required in Korea Some accessories may not be available in some countries

- User License Accessory (For MPEG-4)
- User License Accessory (For H.264)

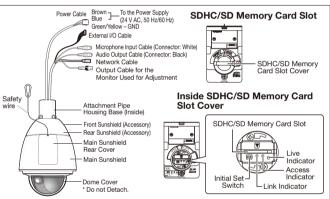
Specifications

Camera			NTSC	PAL	
	Image Sensor		1/4 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning Mode		Progressive scan		
	Scanning A		3.6 mm (H) x 2.7 mm (V) {5/32 inche		
	Minimum I	llumination	Color: 0.5 lx, B/W: 0.06 lx at F1.4 (\$		
			Color: 0.031 lx, B/W: 0.004 lx at F1	.4 (Shutter: 16/30 s, AGC: High)	
	White Bala	ince	AWC (2,000 ~ 10,000 K), ATW1 (2,700	0 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)	
	Light Control Mode Shutter Speed Super Dynamic Face Super Dynamic Dynamic Range Adaptive Black Stretch AGC Electronic Sensitivity UP Black and White Mode Digital Noise Reduction Video Motion Detection Privacy Zone		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) 52 dB typical (Super Dynamic: ON, Light Control mode: Indoor) ON / 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 High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps Up to 8 zones, Gray / Mosaic		
	Auto Image Stabilizer		ON / OFF		
	Camera Title (OSD)		Up to 20 alphanumeric characters (3 selectable character sizes)		
Lens	Focal Length		3.3 mm ~ 119 mm		
Lens	Zoom Ratio		36x / 72x with extra optical zoom (at VGA)		
	Digital (Electronic) Zoom		12x (Max. 864x combined with extra optical zoom at VGA)		
	Angular Field of View		H: 1.7° (Tele) ~ 60.2° (Wide), V: 1.3° (Tele) ~ 46.0° (Wide)		
	Maximum Aperture Ratio		H: 1.7° (1ele) ~ 60.2° (Wide), V: 1.3° (1ele) ~ 46.0° (Wide) 1 : 1.4 (Wide) ~ 4.8 (Tele)		
	Focusing Range		1 : 1.4 (Wide) ~ 4.8 (Tele) 2.0 m ~ ∞		
	Aperture Range		2.0 m ~ ∞ F1.4 ~ 22, Close		
Dave					
Pan and Tilt	Panning Range		360° endless		
	Panning Speed		Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller)		
	Tilling Danse		Preset: up to approx. 400°/s		
	Tilting Range		-15° ~ 185° (upward-level-downward)		
	Tilting Speed		Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15°		
			Manual: approx.0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller)		
			Preset: up to approx. 400°/s		
	Proportional Pan/Tilt Control		Yes		
	Number of Preset Positions		256		
	Auto Mode		preset sequence / auto pan / auto track / patrol		
	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 /		
			30 min / 60 min		
	Map Shot		360° map shot / preset map shot		
			Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris,		
	Camera Control				
			Preset position call and program, Auto mode		
	Disalau Ma				
	Display Mo	ode	Spot, Quad: Image from 16 cameras	can be displayed in 4 different Quad	
			Spot, Quad: Image from 16 cameras screens or 16 split screen (JPEG only)	can be displayed in 4 different Quad	
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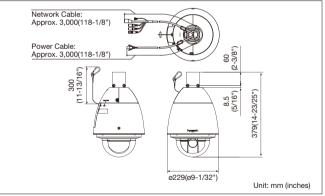
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: 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	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 , Auto track		
	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 Type2 compliant, Class 4 device) Heater ON		
	Ambient Operating	–50 °C ~ +55 °C (–58 °F ~ 131 °F) (24 V AC) *4,*5		
	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 14-23/25"(H)), Diameter of the dome: 150 mm (5-29/32")		
	Mass (approx.)	4.6 kg (10.15 lbs.)		

I Miass (approx.) [4.6 kg (10.1 5 lbs.) *1 Microsoft Windows 7 Starter, Microsoft Windows Vista Starter and Microsoft Windows XP Professional 64-bit Edition are not supported. *2 H.264 and MPEG-4 are alternative. *3 [4 : 3] and [16 : 9] are alternative. *4 When used with a continuous power supply (camere internal temperature must be above -10°C, and installation and startup should be done at above -30°C.) *5 When using this product at temperatures of -40°C or bellow, use the power supply between 24 V AC and 27 V AC. *6 For further information about compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.html).

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 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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