Panasonic

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 can be selectable.
- 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
- Built-in fan/heater/sun shield for temperature changes of -40 °C ~ +50 °C (-40 °F ~ +122 °F) (24 V AC), -30 °C ~ +50 °C (-22 °F ~ 122 °F) (PoE+)
- Rain wash coating dome cover (WV-SW395A)

Standard Accessories

- CD-BOM*1
- Installation Guide.....1 pc.
- The followings are for installation.
- 8P Alarm Cable .
- Connector Kit for 24 V AC 1 pc.
- Front/Rear Sun Shield 1 set

Optional Accessory

Wall Mount Bracket WV-Q122 (PAL model only)

- User License Accessory (For MPEG-4)
- * This catalog is provided for all over the world. Some accessories may not be available in some countries

- *1 The CD-ROM contains the operating instructions 1 pc. (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.

• Front/Rear Sun Shield Fixing Screws

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

* Required in Korea

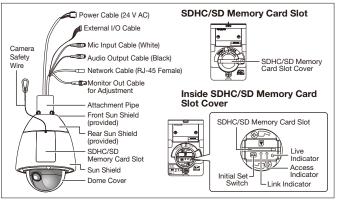
Specifications

Camera			NTSC	PAL	
	Image Sensor		1/3 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning Mode		Progressive scan		
	Scanning Area Minimum Illumination		4.8 mm (H) x 3.6 mm (V) Color: 0.5 lx, B/W: 0.06 lx at F1.6 (Shutter: 1/30 s, AGC: High),		
	within the multimation		Color: 0.031 lx, B/W: 0.004 lx at F1.6 (Shutter: 1/30 s, AGC: High)		
	White Balance		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light Control Mode		Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter		
	Shutter Speed		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		
	Super Dynamic Face Super Dynamic		ON / OFF		
	Pace Supe Dynamic F		ON / OFF (Only at Super Dynamic: 52 dB typical (Super Dynamic: ON		
			52 dB typical (Super Dynamic: ON, Light Control mode: Indoor) ON / OFF		
	Adaptive Black Stretch 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		Level: High / Low, with external cor		
			High / Low		
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Detection	ction size: 10 steps	
	Privacy Zone		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 Zoom Batio		4.7 mm ~ 84.6 mm		
	Zoom Ratio		18x / 36x with extra optical zoom (under VGA)		
	Digital (Electronic) Zoom Angular Field of View		12x (Max. 432x combined with extra optical zoom under VGA) H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide)		
	Maximum Aperture Ratio		H: 3.2° (Tele) ~ 55.2° (Wide), V: 2.4° (Tele) ~ 42.1° (Wide) 1 : 1.6 (Wide) ~ 4.6 (Tele)		
	Focusing Range		1.5 m ~ ∞		
	Aperture Range		F1.6 ~ 22, Close		
Pan and Tilt	Panning Range		0° ~ 350° (With Pan-Flip: 0°~ 360°)		
	Panning Speed		Manual: approx. 0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller		
			Preset: up to approx. 300°/s		
	Tilting Range Tilting Speed Proportional Pag/Tilt Control		-30° ~ 90° (upward-level-downward		
			Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° *4 /		
			-25° *4 / -30° *4		
			Manual: approx.0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller) Preset: up to approx. 100°/s		
			Preset: up to approx. 100°/s Yes		
	Proportional Pan/Tilt Control Number of Preset Positions		7es 64		
	Auto Mode		OFF / preset sequence / auto pan / auto track		
	Image Hold		ON / OFF		
	PTZ Positi	on 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		
	Pan/tilt Flip *1		ON / OFF		
	Map Shot		360° map shot / preset map shot		
Browser GUI	Camera Control		Pan/Tilt (16 steps), Zoom, Focus, C		
	Display Mode		Preset position call and program, A		
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available		
	Camera Title		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		
	Audio		Mic (Line) Input: ON / OFF Volume	adjustment: Low / Middle / High.	
	Audio				
			Audio Output: ON / OFF Volume a	djustment: Low / Middle / High	
		y Data Download	Still or motion images recorded in t	djustment: Low / Middle / High	
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	SD Memory	y Data Download Menu Language	Still or motion images recorded in t be downloaded. English, French	djustment: Low / Middle / High he SDHC/SD memory card can English, French, Italian, Spanish,	
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Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con	Menu Language g G GS Browser Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Transmission Type Image Q	Still or motion images recorded in t be downloaded. English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (SI recording format is set to JPEG.) er Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession The language of the OS must be ss Windows® Internet Explorer® 7.0 (Microsoft Windows® Internet Explorer® 6.0 SP3 (Mi MPEG-4: VGA (640 × 440) / QVGA JPEG (MJPEG): 1,280 × 960 / 800 · VGA (320 × 240), up to 30 fps H.264: 1,280 × 720 / 640 × 360 / 33 JPEG (MJPEG): 1,280 × 720 / 30 fps G4 / 128 / 256 / 334 / 512 / 768 / 1, 4,096 / 6, 192' kbps / Unitmid* H LOW / NORMAL / FINE 0.2 s / 0.25 s / 0.35 s / 0.5 s / 1 s / J UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps,	djustment: Low / Middle / High he SDHC/SD memory card can English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the ror logs al 64 bit/32 bit, ss SP1 32 bit, me as selected GUI language. Te [®] Windows [®] XP Professional 64 bit/32 bit crosoft [®] Windows [®] XP Professional SP3 onector 0 480 / OVGA (820 × 240), up to 30 fp (320 × 240), up to 30 fps × 360 / VGA (640 × 480) / 20 × 180, up to 30 fps × 360 / 320 × 180, up to 30 fps 2 × 360 / 20 × 180, up to 30 fps 2 × 360 / 2,048 / 3,072 / .2.64 mode only 2 s / 3 s / 4 s / 5 s	
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Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc	Menu Language 99 OS Browser Aspect ratio: [4 : 3] Aspect ratio: [4 : 3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Transmission Type Image Quality Transmission Type Image Quality Composition Type Image Quality Composition Type Composition Type Comp	Still or motion images recorded in t be downloaded. English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (Si recording format is set to JPEG.) er Microsoft Windows [®] Profession Microsoft Windows [®] XP Profession The language of the OS must be se Windows [®] Internet Explorer [®] 3.0 (Microsof Windows [®] Internet Explorer [®] 5.0 SP3 (Mi 10Base-T / 10DBase-TX, RJ-45 cor 1264: 1280 × 90/ 300 × 600 / VGA (44) MPEG-4: VGA (640 × 480) / QVGA JPEG (MJPEG): 1,280 × 900 / 000 / VGA (43) JPEG (MJPEG): 1,280 × 900 / 000 / VGA (44) 128 / 250 / 384 / 512 / 768 / 1, 4.096 / 8,192 / kbps / Unlimited * H LOW / NORMAL / Fine 0.2 s / 0.25 / 0.33 s / 0.5 s / 1 s / : UNICAST / MULTICAST 10 steps PULL / PUSH G.726 (ADPCM) 32 kbps / 16 kbps, OFF / Mic (Line) input / Audio output Interactive (Full duplex)	djustment: Low / Middle / High he SDHC/SD memory card can English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the ror logs al 64 bit/32 bit, ss SP1 32 bit, sal SP3 ume as selected GUI language. Te [®] Windows [®] 7 Professional 64 bit/32 bit crosoft [®] Windows [®] 7 Professional 64 bit/32 bit crosoft [®] Windows [®] XP Professional SP3 une tor 0 x 480 / OVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps × 600 / VGA (640 x 480) / 20 x 180, up to 30 fps × 360 / 320 x 180, up to 30 fps y / Best effort 11/3/5/7.5/10/12/15/20/30 fps 024 / 1,536 / 2,048 / 3,072 / L264 mode only 2 s / 3 s / 4 s / 5 s G.711 64 kbps t/ / Interactive (Half duplex) /	
Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc	Menu Language 9 OS Browser Aspect ratio: [4 : 3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality Transmission Type Image Quality Image Qual	Still or motion images recorded in t be downloaded. English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (Sl recording format is set to JPEG), en Microsoft® Windows® TP Profession Microsoft® Windows % XP Profession Microsoft® Windows % XP Profession Microsoft® Unindows® XP Profession Microsoft® Internet Explore® 8.0 (Microsof Windows® Internet Explore® 4.0 (Microsof Windows 7.0 / 164 0.0 SP3 (Mi HPEG-4: 1/280 × 720 / 640 0.2 (MJPEG): 1,280 × 720 / 740	djustment: Low / Middle / High he SDHC/SD memory card can English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the ror logs al 64 bit/32 bit, ss SP1 32 bit, met as selected GUI language. Te [®] Windows [®] 7 Professional 64 bit/32 bit rorsoft [®] Windows [®] 7 Professional 64 bit/32 bit crosoft [®] Windows [®] 7 Professional SP3 nnector 0 x 480 / OVGA (320 x 240), up to 30 fp (320 x 240), up to 30 fps x 360 / VGA (640 x 480) / 20 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps z 360 / 320 x 180, up to 30 fps x	
Network	SD Memory GUI/Setup System Lo Supported Supported Network IF Image Resolution *2 *3 H.264/ MPEG-4 *2 JPEG (MJPEG) Audio Con Audio Moc Authentica	Menu Language g 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 Out of the	Still or motion images recorded in t be downloaded. English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (SI recording format is set to JPEG.) er Microsoft® Windows® TP Profession Microsoft® Windows® XP Profession The language of the OS must be sa Windows® Internet Explorer® 3.0 (Microsoft Windows® Internet Explorer® 4.0 (Microsoft Windows® 1.0 (Microsoft 1.1 (J	djustment: Low / Middle / High he SDHC/SD memory card can English, French, Italian, Spanish, German, Russian (Installation required except for English) DHC/SD memory when the ror logs al 64 bit/32 bit, ss SP1 32 bit, mal SP3 me as selected GUI language. ft® Windows® 7 Professional 64 bit/32 bit ft® Windows® XP Professional SP3 nector 0 x 4801 / QVGA (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 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 fp 22 x 1 / 35 / 2 , 048 / 3 , 072 / L264 mode only 2 s / 3 s / 4 s / 5 s G.711 64 kbps ut / Interactive (Half duplex) / vers 2, 048 / 4,096 / 8,192 kbps / Unlimiter	

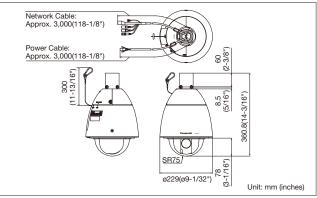
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: 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			
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	one/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	ø229 mm x 360.8 mm (H) (ø9-1/32" x 14-3/16" (H)), Diameter of the dome: 150 mm (5-29/32")		
	Mass (approx.)	4.6 kg (10.14 lbs.)		

Mass (approx.) 4.6 kg (10.14 lbs.) ^{14.6} Ng (10.1 + 10.5) ^{14.6}

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