

Super Dynamic Weather Resistant HD Dome Network Camera WV-SW395



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
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD is supplied to work with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.
- Alarm sources including 1 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)
- 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
 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 \sim +50 °C (-40 °F \sim +122 °F) (24 V AC), -30 °C \sim +50 °C (-22 °F \sim 122 °F) (PoE+)

Standard Accessories

• CD-ROM*1	•
The followings are for installation. • 8P Alarm Cable	*

- 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.

Optional Accessory

Wall Mount Bracket
WV-Q122



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

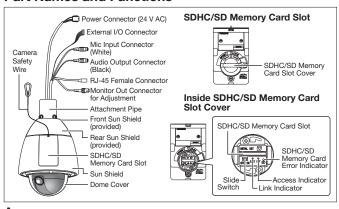
Specifications

Camera	Imac- C	2001	NTSC	PAL	
	Image Sen		1/3 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning I		Progressive scan		
	Scanning A		4.8 mm (H) x 3.6 mm (V)		
	Minimum I	llumination	Color: 0.5 lx, B/W: 0.06 lx at F1.6 (Shutter: 1/30 s, AGC: High),		
			Color: 0.031 lx, B/W: 0.004 lx at F1		
	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: Automatic integration of		
			Indoor [50 Hz]: Automatic integration of ALC and ELC		
			Indoor [60 Hz]: Automatic integration of ALC and ELC 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		
	Shutter Sp	eed			
	Super Dyn	amic	ON / OFF		
	Face Supe	er Dynamic	ON / OFF (Only at Super Dynamic:	ON)	
	Dynamic F		52 dB typical (Super Dynamic: ON	Light Control mode: Indoor)	
		Black Stretch	ON / OFF	,	
	AGC		ON (LOW, MID, HIGH) / OFF		
		Sensitivity UP	OFF, max. 2/30 s, max. 4/30 s, max	. 6/30 s. max. 10/30 s. max. 16/30	
		White Mode	Mode: AUTO1 / AUTO2 / AUTO3 / ON / O		
			High / Low	11, Ecvol. Flight? Low, with external control	
	Digital Noise Reduction		4 areas, Sensitivity: 15 steps, Dete	otion size: 10 stons	
	Video Motion Detection			ction size. To steps	
	Privacy Zone		Up to 8 zones, Gray / Mosaic		
	Auto Image Stabilizer		ON / OFF	(0 1 1 1 1 1 1 1 1 1 1 1	
	Camera Title (OSD)		Up to 20 alphanumeric characters (3 selectable character sizes)		
Lens	Focal Length		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) ~ 2.8 (Tele)		
	Focusing Range		1.5 m ~ ∞		
	Aperture R		F1.6 ~ 22, Close		
Pan and Tilt	Panning Ra		0° ~ 350°		
	Panning S		Manual: approx. 0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller)		
	"		Preset: up to approx. 300°/s		
	Tilting Ran	ige	-30° ~ 90° (upward-level-downwar	rd)	
	"	-	Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° *3 / -25° *3 / -30° *3		
	Tilting Spe	ed			
	Liiting Speed		Manual: approx.0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller) Preset: up to approx. 100°/s		
	Proportions	I Pan/Tilt Control	Yes		
	Proportional Pan/Tilt Control				
	Number of Preset Positions				
	Auto Mode		OFF / preset sequence / auto pan / auto track		
	Image Hold		ON / OFF		
	PTZ Position Display		ON / OFF 10 s / 20 s / 30 s / 1 min. / 2 min. / 3 min. / 5 min. / 10 min. / 20 min. /		
	Self Return		30 min. / 60 min.		
	000 B Fi				
	360 Pan-Flip		ON / OFF		
	Map Shot		360° map shot / preset map shot		
Browser GUI	Camera Control		Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris,		
			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 Con	itrol	Reset		
	One Shot Capture		A still picture will be displayed on a newly opened window.		
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,		
			Audio Output: ON / OFF Volume adjustment: Low / Middle / High		
	SD Momony Data Download		Still or motion images recorded in		
	SD Memory Data Download		be downloaded.		
	OD WICHION				
		Monu Languago		English French Italian Spanish	
		Menu Language	English, French	English, French, Italian, Spanish,	
		Menu Language		German, Russian (Installation	
	GUI/Setup		English, French (Installation required for French)	German, Russian (Installation required except for English)	
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Network	GUI/Setup System Lo Supported Supported Network IF Image Resolution *1 *2 H.264/ MPEG-4 *1 JPEG (M-JPEG) Audio Con	Aspect ratio: [4 : 3] Aspect ratio: [16 : 9] Aspect ratio: [16 : 9] Aspect ratio: Image Quality Refresh Interval Image Quality Transmission Type Image Quality Transmission Type Image Page Quality Transmission Type Image Refresh Interval Image Page Refresh Interval Image R	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (\$ recording format is set to JPEG.] e Microsoft® Windows® 7 Professior Microsoft® Windows® XP Professior Microsoft® Windows® XP Professior The language of the OS must be si Windows® Internet Explore® 8.0 (Microsoft® Windows® Internet Explore® 6.0 SP3 (Microsoft® 6.	German, Russian (Installation required except for English) DIHC/SD memory when the ror logs had 64 bit/32 bit, had 64 bit/32 bit hit had 64 bit/32	
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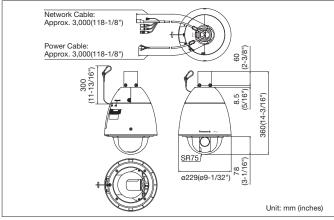
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image tran	nsfer (When the FTP periodic transmission	
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: 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		
	Face Detection	ON / OFF (with XML notification)		
	Cellular Phone Compatibility	JPEG image, panning/tilting/zoom control, AUX control (by access level)		
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	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 compliant, Class 4 device) Heater ON		
	Ambient Operating	-40 °C ~ +50 °C (-40 °F ~ 122 °F) (24 V AC) *4,		
	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.)			

¹ H.264 and MPEG-4 are alternative. "2 [4:3] and [16:9] are alternative. "3 Images may partially covered depending on the housing brackets. "4 When used with a continuous power supply (camera internal temperature must be above -10°C, and installation and startup should be done at above -30°C.)

Part Names and Functions



Appearance



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- 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.
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