

Super Dynamic HD Dome Network Camera WV-SC385



HD/1,280 x 960 H.264 Dome Network 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)
 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

Standard Accessories

CD-ROM*1	Decorative Cover
Camera Mount Bracket (w/safety wire)	*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 Accessories



^{*} Not compatible with optional accessories of conventional cameras

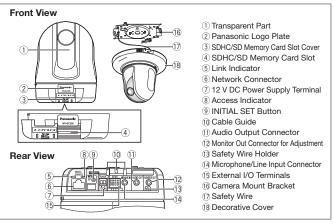
Specifications

			NTSC PAL		
Camera	Image Sen		1/3 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning Mode Scanning Area		Progressive scan		
	Minimum II		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),		
			Color: 0.031 lx, B/W: 0.004 lx at F1.6 (Shutter: 16/30 s, AGC: High)		
	White Bala	nce	AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	Light Conti	rol Mode	Outdoor: Automatic integration of ALC and ELC		
			Indoor [50 Hz]: Automatic integration of ALC and ELC Indoor [60 Hz]: Automatic integration of ALC and ELC		
	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 Dyna		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		
	Face Supe Dynamic R				
		Black Stretch			
	AGC				
		Sensitivity UP			
	Digital Noise Reduction High / Low Video Motion Detection 4 areas, Sensitivity: 15 steps Privacy Zone Up to 8 zones, Gray / Mosaid		Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF, Level: High / Low, with external control High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
				Gray / Mosaic	
			ON (desktop) / OFF (ceiling)		
	Auto Image Stabilizer		ON / OFF		
	Camera Title (OSD)		Up to 20 alphanumeric characters (3 selectable character sizes)		
Lens	Focal Length		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		1 : 1.6 (Wide) ~ 2.8 (Tele)		
	Focusing Range		1.5 m ~ ∞		
	Aperture Range		F1.6 ~ 22, Close		
Pan and Tilt			0° ~ 350°		
	Panning Speed		Manual: approx. 0.5°/s ~ 100°/s, Up to 256 steps (depending on the controller)		
	Tilting Range		Preset: up to approx. 300°/s -30° ~ 90° (upward-level-downward)		
	Tilting Speed		Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° / -25° / -30° 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 Number of Preset Positions				
			OFF / preset sequence / auto pan / auto track		
			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.		
	360 Pan-Flip		ON / OFF 360° map shot / preset map shot		
Browser GUI			Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris,		
Diowsei doi	Carriera Contitui		Preset position call and program, Auto mode		
	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 newly opened window.		
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High, Audio Output: ON / OFF Volume adjustment: Low / Middle / High		
	SD Memory Data Download		Still or motion images recorded in be downloaded.	tne SDHC/SD memory card can	
	1				
		Menu Language	English, French	English, French, Italian, Spanish,	
	GUI/Setup		English, French (Installation required for French)	English, French, Italian, Spanish, German, Russian (Installation required except for English)	
	GUI/Setup	9	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG.) e	English, French, Italian, Spanish, German, Russian (Installation required except for English) SDHC/SD memory when the error logs	
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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 Com Audio Mod	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	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG) Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Businesoft® Windows® XP Businesoft® Windows® Names to see Windows® Internet Explore® 8.0 (Microsoft® Mindows® Internet Explore® 4.0 (SPS) Microsoft® Mindows® Internet Explore® 4.0 (Microsoft® Mindows® Internet Explore® 4.0 (Microsoft® Mindows® Internet Explore® 4.0 (Microsoft® Mindows® 1.0 (Microsoft® Mindows® 1.0 (Mindows®	English, French, Italian, Spanish, German, Russian (Installation required except for English) SDHC/SD memory when the error logs all 64 bit/32 bit, onal SP3 ame as selected GUI language. Iffe Windows Professional 64 bit/32 bit, offe Windows Vista® Business SP1 32 bit, licrosoff® Windows® P Professional SP3 romector 10 × 480/ OVGA (320 × 240), up to 30 fps 0 × 600 / VGA (640 × 480) / SOM SP3 11 × 180, up to 30 fps 0 × 360 / 320 × 180, up to 30 fps 11 × 180, up to 30 fps 11 × 180, up to 30 fps 11 × 180, up to 30 fps 12 × 180, up to 30 fps 13 × 180, up to 30 fps 14 × 180, up to 30 fps 16 × 180, up to 30 fps 17 × 180, up to 30 fps 18 × 180, up to 30 fps 19 × 180, up to 30 fps 10 × 180	
Network	GUI/Setup System Lo. Supported Supported Network IF Image Resolution '1 '2 H.264/ MPEG-4 '1 JPEG (M-JPEG) Audio Com Audio Mod Authentica	g OS Browser Aspect ratio: [4:3] Aspect ratio: [6:9] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Imasmission Type pression Ide tition for Audio	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (s recording format is set to JPEG.) e Microsoft® Windows® 7 Professior Microsoft® Windows® Net Professior Microsoft® Windows® Net Professior The language of the OS must be s Windows® Internet Explore® 6.0 Microsoft® Windows® Internet Explore® 6.0 SP3 (Microsoft® 6.0 SP3 (Microsoft	English, French, Italian, Spanish, German, Russian (Installation required except for English) SDHC/SD memory when the stror logs and 64 bit/32 bit, sess SP1 32 bit, onal SP3 ame as selected GUI language. Tiel Windows 7 Professional 64 bit/32 bit, sess SP1 32 bit, offe Windows Vista® Business SP1 32 bit, offe Windows Vista® Business SP1 32 bit, icrosoffe Windows® XP Professional SP3 meters of the Windows® XP Professional SP3 memetor 40 x 480 / QVGA (320 x 240), up to 30 fps 0.0 x 600 / VGA (640 x 480) / 120 x 180, up to 30 fps 0 x 600 / 320 x 310, up to 30 fps 0 x 360 / 320 x 310, up to 30 fps 0 x 360 / 320 x 180, up to 30 fps 1/17.5 / 77.5 / 10 / 12 / 15 / 20 / 30 fps 0 x 600 / 20 x 180, up to 30 fps 1/17.5 / 77.5 / 10 / 12 / 15 / 20 / 30 fps 1/17.5 / 20 / 30 fps 1/17.	
Network	GUI/Setup System Lo: Supported Supported Network IF Image Resolution '1 '2 H.264/ MPEG-4 '1 JPEG (M-JPEG) Audio Com Audio Mod	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 Quality Transmission Type Image Outlity Interview Outlity	English, French (Installation required for French) Up to 100 (Internal), Up to 4,000 (S recording format is set to JPEG) Microsoft® Windows® 7 Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Businesoft® Windows® XP Businesoft® Windows® Names to see Windows® Internet Explore® 8.0 (Microsoft® Mindows® Internet Explore® 4.0 (SPS) Microsoft® Mindows® Internet Explore® 4.0 (Microsoft® Mindows® Internet Explore® 4.0 (Microsoft® Mindows® Internet Explore® 4.0 (Microsoft® Mindows® 1.0 (Microsoft® Mindows® 1.0 (Mindows®	English, French, Italian, Spanish, German, Russian (Installation required except for English) SDHC/SD memory when the surror logs and 64 bit/32 bit, ses SP1 32 bit, onal SP3 ame as selected GUI language. Iffe Windows Professional 64 bit/32 bit, offe Windows Professional SP3 rome offe Windows Professional SP3 removed to the Windows Professional SP3 surroctor 40 × 480 / OVGA (320 × 240), up to 30 fps ov 600 / VGA (640 × 480) / VGA (640 × 480	

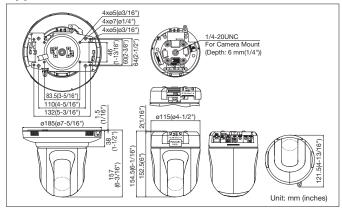
TV System	1	NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card			
	(Option)			
		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		otification, 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)	ø3.5 mm mini jack	ø3.5 mm mini 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 (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/	12 V DC: approx. 1,000 mA,		
	Consumption	PoE: approx.12.0 W (IEEE802.3af compliant, Class 0 device)		
	Ambient Operating	–10 °C ~ +50 °C (14 °F ~ 122 °F),		
	Temperature/Humidity	90 % or less (without condensation)		
	Dimensions	ø115 mm x 155 mm (H) (ø4-17/32" x 6-3/32" (H)) (excluding the 12 V DC power cord plug)		
	Mass (approx.)	900 g (1.99 lbs.)		

^{*1} H.264 and MPEG-4 are alternative. *2 [4:3] and [16:9] are alternative.

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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