

Super Dynamic HD Dome Network Camera WV-SC386



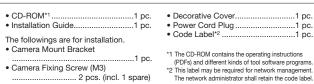
HD/1,280 x 960 H.264 Camera featuring Optical 36x zoom and Super Dynamic

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: 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
- Face detection function detects the position of human face and the information is sent by XML or video stream.
- Meta data for VMD works 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 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
- Supports Power over Ethernet (PoE) IEEE 802.3af

Standard Accessories



Optional Accessory



Specifications

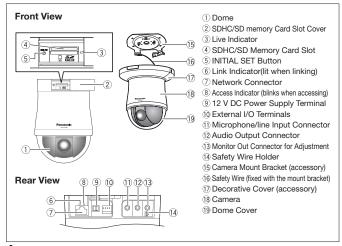
TV System			NTSC PAL		
Camera	Image Sensor		1/4 type MOS Sensor	•	
	Effective P	ixels	Approx. 1.3 megapixel		
	Scanning I		Progressive scan		
	Scanning /		3.6 mm (H) x 2.7 mm (V) {5/32 inch		
	Minimum I	llumination	Color: 0.03 ky, B/W: 0.06 kx at F1.4 (Shutter: 1/30 s, AGC: High),		
	White Balance		Color: 0.031 lx, B/W: 0.004 lx at F1.4 (Shutter: 16/30 s, AGC: High) AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)		
	White Balance 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,		
	Shutter Sp	eed	1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
	Cupor Dun	omio	ON / OFF		
	Super Dyn Face Supe		ON / OFF (Only at Super Dynamic:	ONI	
	Dynamic F		52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)		
			ON / OFF		
	Adaptive Black Stretch 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 /		
		se Reduction	High / Low		
	Video Motion Detection		4 areas, Sensitivity: 15 steps, Dete	ction size: 10 steps	
	Privacy Zone		Up to 8 zones, Gray / Mosaic	•	
	Auto Image Stabilizer		ON / OFF		
	Camera Ti		Up to 20 alphanumeric characters	(3 selectable character sizes)	
Lens	Focal Length		3.3 mm ~ 119 mm		
	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		1:1.4 (Wide) ~ 4.8 (Tele)		
	Focusing Range		2.0 m ~ ∞		
	Aperture Range		F1.4 ~ 22, Close		
Pan and Tilt	Panning R		360° endless		
	Panning S	peed	Manual: approx. 0.065°/s ~ 120°/s, Up to 256 steps (depending on the controlle		
			Preset: up to approx. 400°/s		
	Tilting Range		-15° ~ 185° (upward-level-downward)		
			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 controlle		
	Tilting Speed			256 steps (depending on the controlle	
			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 10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min /		
	Self Return			min / 5 min / 10 min / 20 min /	
	Mary Chart		30 min / 60 min		
	Map Shot		360° map shot / preset map shot		
Browser GUI	Camera Control		Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris,		
	Display Mada		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	biomooi, ourimoi amo (mandari to re	
	One Shot Capture		A still picture will be displayed on a	newly opened window.	
	Audio		Mic (Line) Input: ON / OFF Volume		
			Audio Output: ON / OFF Volume a		
	SD Memory Data Download		Still or motion images recorded in		
	, , , , , , , , , , , , , , , , , , , ,		be downloaded.	•	
	GUI/Setup Menu Language System Log		English, French	English, French, Italian, Spanish	
			(Installation required for French)	German, Russian (Installation	
				required except for English)	
			Up to 100 (Internal), Up to 4,000 (S	DHC/SD memory when the	
	-,		recording format is set to JPEG.) e		
	Supported	OS *1	Microsoft® Windows® 7		
			Microsoft® Windows Vista®		
			Microsoft® Windows® XP SP3		
	Supported Browser		Windows® Internet Explorer® 9.0 (32 bit)		
			Windows® Internet Explorer® 8.0 (32 bit)		
			Windows® Internet Explorer® 7.0 (32 bit)		
			Microsoft® Internet Explorer® 6.0 S		
Network	Network IF		10Base-T / 100Base-TX, RJ-45 connector		
	Image	Aspect ratio:	H.264: 1,280 × 960 / 800 × 600 / VGA (64		
	Resolution	[4:3]	MPEG-4: VGA (640 × 480) / QVGA		
	*2 *3		JPEG (MJPEG): 1,280 \times 960 / 800	× 600 / VGA (640 × 480) /	
			QVGA (320 × 240), up to 30 fps		
		Aspect ratio:	H.264: 1,280 × 720 / 640 × 360 / 3		
		[16:9]	JPEG (MJPEG): 1,280 × 720 / 640		
	H.264/	Transmission Mode	Constant bitrate / Framerate priority / Best effort		
	MPEG-4	Frame Rate	1/3/5/7.5/10/12/15/20/30		
	*2	Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1		
			4,096 / 8,192* kbps / Unlimited * F	1.264 mode only	
		Image Quality	LOW / NORMAL / FINE		
			0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s / 2 s / 3 s / 4 s / 5 s		
			UNICAST / MULTICAST		
	JPEG Image Quality		10 steps		
	(MJPEG) Transmission Type				
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	Audio Mode		OFF / Mic (Line) input / Audio outp	ut / Interactive (Half duplex) /	
	A H and a Company of the Company of		Interactive (Full duplex)		
	Authentication for Audio		Level 1 only / Level 2 higher / All us		
	Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024		
	Supported Protocol		TENES TO UND THE DITTE BETTER DIE	P, FTP, SMTP, DNS, NTP, SNMP, DHCP	
	Supported	Protocol			
	Supported	Protocol	IPv4: TCP/IP, UDP/IP, HTTP, HTTP FTP, SMTP, DHCP, DNS, DDNS, N	PS, RTSP, RTP, RTP/RTCP,	

FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP

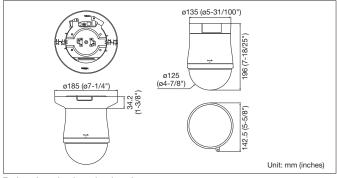
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: 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		
	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 , 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 (UL60950-1), FCC (Part15 ClassA),	CE (EN55022 ClassB, EN55024)	
		C-UL (CAN/CSA C22.2 No.60950-1),		
		DOC (ICES003 ClassA)		
	Power Source/	12 V DC: approx. 1A		
	Consumption	PoE: approx. 48 V 250 mA (IEEE802.3af compliant, Class 0 device)		
	Ambient Operating	−10 °C ~ +50 °C (14 °F ~ 122 °F),		
	Temperature/Humidity	90 % or less (without condensation)		
	Dimensions	ø135 x 196 mm (H) (ø5-31/100" x 7-18/25")		
	Mass (approx.)	Camera: 1.2kg (2.65 lbs)		
		Accessories (Camera mount bracket, decorative cover): Approx. 200 g {0.44 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.

Part Names and Functions



Appearance



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- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
 UniPhier is a registered trademark of Panasonic Corporation.
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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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