Panasonic

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
- 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
- Fog compensation

Standard Accessories

• CD-ROM*1	Decorative Cover			
The followings are for installation. • Camera Mount Bracket1 pc.	Code Label*2			
Camera Fixing Screw (M3) 2 pcs. (incl. 1 spare)	(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

Ceiling Mount Bracket WV-Q105

Embedded Ceiling Mount Bracket WV-Q118A

Wall Mount Bracket WV-Q118A

Smoke Dome Cover WV-CS4S

Specifications

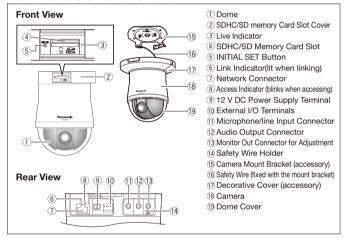
TV System			NTSC	PAL	
Camera	Image Sen		1/4 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning I		Progressive scan		
	Scanning /		3.6 mm (H) x 2.7 mm (V) {5/32 inch		
	IVIINIMUM I	llumination	Color: 0.5 lx, B/W: 0.06 lx at F1.4 (
	M/hito Dolo	200	Color: 0.031 lx, B/W: 0.004 lx at F1		
	White Bala Light Cont		AWC (2,000 ~ 10,000 K), ATW1 (2,70) Indoor scene (50 Hz / 60 Hz) / Outo		
	Shutter Sp		Fix shutter: OFF (1/30), 3/100, 3/120		
	Onutier op	eeu	1/500, 1/1,000, 1/2,000, 1/4,000,		
	Super Dyn	amic	ON / OFF	1710,000	
	Face Supe		ON / OFF (Only at Super Dynamic:	ON)	
	Dynamic F		52 dB typical (Super Dynamic: ON,		
		Black Stretch	ON / OFF		
	AGC		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		
	Electronic	Sensitivity UP			
		White Mode	Mode: AUTO1 / AUTO2 / AUTO3 /		
		se Reduction	High / Low 4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Video Mot	ion Detection			
	Privacy Zo	ne	Up to 8 zones, Gray / Mosaic		
		e Stabilizer	ON / OFF		
	Camera Title (OSD)		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) H: 1.7° (Tele) ~ 60.2° (Wide), V: 1.3° (Tele) ~ 46.0° (Wide)		
	Angular Fi			(rele) ~ 4b.U" (Wide)	
		Aperture Ratio	1:1.4 (Wide) ~ 4.8 (Tele)		
	Focusing Range Aperture Range		2.0 m ~ ∞ F1.4 ~ 22, Close		
Pan and Tilt			360° endless		
and Int	Panning S		Manual: approx. 0.065°/s ~ 120°/s, Up to	256 steps (denending on the controller	
			Preset: up to approx. 400°/s		
	Tilting Ran	ge	-15° ~ 185° (upward-level-downwa	ard)	
		-	Tilting angle limit: 10° / 5° / 3° / 0°		
	Tilting Spe	ed	Manual: approx.0.065°/s ~ 120°/s, Up to 256 steps (depending on the controller)		
			Preset: up to approx. 400°/s		
		l Pan/Tilt Control	Yes		
		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 /		
	Man Chat		30 min / 60 min		
Browser GUI	Map Shot		360° map shot / preset map shot	Nielt-i D I-i-	
browser GUI	Camera C	ontroi	Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode		
	Display 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 Memor	y Data Download	Still or motion images recorded in	the SDHC/SD memory card can	
			be downloaded.		
	GUI/Setup	Menu Language	English, French	English, French, Italian, Spanish,	
			(Installation required for French)	German, Russian (Installation	
				required except for English)	
	System Lo	g	Up to 100 (Internal), Up to 4,000 (S		
	C	00 *1 *0 *0	recording format is set to JPEG.) e		
	Supported	OS *1 *2 *3	Microsoft® Windows® 8, Microsoft® Windows® 7 Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Support.	Browser			
	Supported	DIOWSEL	Windows® Internet Explorer® 10.0 (32 bit) Windows® Internet Explorer® 9.0 (32 bit)		
			Windows® Internet Explorer® 8.0 (3		
				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		MPEG-4: VGA (640 × 480) / QVGA		
	*4 *5	,	JPEG (MJPEG): 1,280 × 960 / 800		
			QVGA (320 × 240), up to 30 fps	Ç	
		Aspect ratio:	H.264: 1,280 × 720 / 640 × 360 / 3	20 × 180, up to 30 fps	
		[16:9]	JPEG (MJPEG): 1,280 × 720 / 640		
	H.264/	Transmission Mode	Constant bitrate / Framerate priorit		
	MPEG-4	Frame Rate	1/3/5/7.5/10/12/15/20/30		
	*4	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		
		Refresh Interval	0.2 s / 0.25 s / 0.33 s / 0.5 s / 1 s /	2s/3s/4s/5s	
	L	Transmission Type	UNICAST / MULTICAST		
	JPEG	Image Quality	10 steps		
	(MJPEG) Transmission Type		PULL / PUSH		
	Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps		
	Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) /		
	Aabai		Interactive (Full duplex)		
	Auth	tion for AII-		2070	
		tion for Audio	Level 1 only / Level 2 higher / All us		
	Total Bit R	ate	Level 1 only / Level 2 higher / All us 64 / 128 / 256 / 384 / 512 / 768 / 1,024	/ 2,048 / 4,096 / 8,192 kbps / Unlimited	
		ate	Level 1 only / Level 2 higher / All us 64 / 128 / 256 / 384 / 512 / 768 / 1,024 IPv6: TCP/IP, UDP/IP, HTTP, HTTP	/ 2,048 / 4,096 / 8,192 kbps / Unlimited	
	Total Bit R	ate	Level 1 only / Level 2 higher / All us 64 / 128 / 256 / 384 / 512 / 768 / 1,024	/ 2,048 / 4,096 / 8,192 kbps / Unlimiter PS, RTP, FTP, SMTP, DNS, NTP,	

- 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.

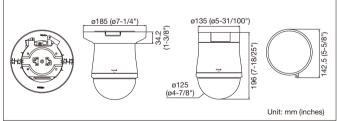
TV System	ı	NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure		
		Compatible SD (SDHC) card: Pana	sonic 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)		
Alarm	Alarm Source	rm 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 Actions			
	Alarm Log			
	Schedule	Alarm/VMD/Access permission, Preset position call, Position refresh, H.264 record		
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 Refer to "Notes on Windows Vista® / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- *2 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.
- *3 Microsoft Windows 7 Starter, Microsoft Windows Vista Starter and Microsoft Windows XP Professional 64-bit Edition are not supported. *4 H.264 and MPEG-4 are alternative.
- *5 [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 cannot be responsible for the performance of the network and/or other manufacturers products used on the network.

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