

# Super Dynamic HD Dome Network Camera WV-SC385



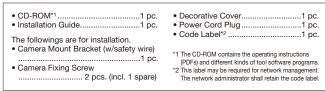
# HD/1,280 x 960 H.264 Dome Network Camera featuring Super Dynamic

### **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®", Panasonio'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**



#### **Optional Accessories**



<sup>\*</sup> Not compatible with optional accessories of conventional cameras

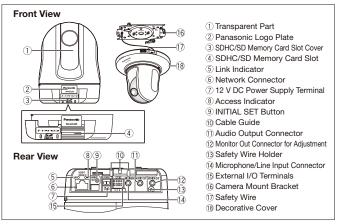
#### **Specifications**

			NTSC	PAL	
Camera	Image Sensor		1/3 type MOS Sensor		
	Effective Pixels		Approx. 1.3 megapixel		
	Scanning Mode		Progressive scan		
	Scanning Area		4.8 mm (H) x 3.6 mm (V)		
	Minimum Illumination		Color: 0.5 lx, B/W: 0.06 lx at F1.6 (Shutter: 1/30 s, AGC: High),		
	White Bol		Color: 0.031 lx, B/W: 0.004 lx at F1.6 (Shutter: 16/30 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,		
	0 0		1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
	Super Dynamic		ON / OFF		
	Face Super Dynamic		ON / OFF (Only at Super Dynamic: ON)		
	Dynamic R		52 dB typical (Super Dynamic: ON, Light Control mode: Indoor)		
		Black Stretch	ON / OFF		
	Electronic Sensitivity UP Black and White Mode		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  Mode: AUTO1 / AUTO2 / AUTO3 / ON / OFF,  Love th High / Low with charged parted.		
			Level: High / Low, with external control High / Low		
	Digital Noise Reduction		4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Video Motion Detection			ction size: 10 steps	
	Privacy Zone		Up to 8 zones, Gray / Mosaic		
	Up Side Down		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		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 Range		F1.6 ~ 22, Close		
Pan and Tilt			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		-30° ~ 90°(upward-level-downward) (With Tilt-Flip: -30° ~ 210°)		
			Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° / -25° / -30°		
	Tilting Speed		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		Yes		
	Number of Preset Positions				
	Auto Mode		OFF / preset sequence / auto pan / auto track		
	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 /		
			30 min / 60 min		
	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, 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  Time: 12H / 24H, Date: 5 formats on the browser, Summer time (Manual/AUTO)		
	Clock Display			browser, Summer time (Manual/AUTO	
	Alarm Control One Shot Capture		Reset	nowly apared window	
	Audio		A still picture will be displayed on a newly opened window.		
	Audio		Mic (Line) Input: ON / OFF Volume adjustment: Low / Middle / High,		
	CD Marray Data Davidad		Audio Output: ON / OFF Volume adjustment: Low / Middle / High		
	SD Memory Data Download		Still or motion images recorded in the SDHC/SD memory card can		
	OLIVO-tu-	Manu Lannuaga	be downloaded.	Facility Franch Halian Conside	
	aoi/setup	Menu Language	English, French	English, French, Italian, Spanish, German, Russian (Installation	
			(Installation required for French)	required except for English)	
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Network	Supported  Supported  Network IF Image Resolution *1 *2  H.264/ MPEG-4 *1  JPEG (MJPEG) Audio Com Audio Mod	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 pression le tion for Audio ate	recording format is set to JPEG.) e Microsoft® Windows® 7 Profession Microsoft® Windows Vista® Busine Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession Microsoft® Windows® XP Profession Microsoft® Hemet Explore® 8.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 7.0 (Microso Windows® Internet Explore® 6.0 SP3 (MI 10Base-T / 100Base-TX, RJ-45 co H.264: 1,280 x 960 / 800 x 800 / V36 AV JPEG (MJPEG): 1,280 x 960 / 800 QVGA (320 x 240), up to 30 fps H.264: 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 3 JPEG (MJPEG): 1,280 x 720 / 640 x 360 x 30 x 30 x 30 x 30 x 30 x 30 x	DHC/SD memory when the ror logs at 64 bit/32 bit, ss SP1 32 bit, snal SP3 arme as selected GUI language. If Windows® 7 Professional 64 bit/32 bit with Windows® 7 Professional 64 bit/32 bit filt Windows® 12 bit crosoft® Windows® XP Professional SP3 nnector 0 x 480 / OVGA (620 x 240), up to 30 fp (320 x 240), up to 30 fps x 600 / V/GA (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 x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 320 x 180, up to 30 fps x 360 / 32	

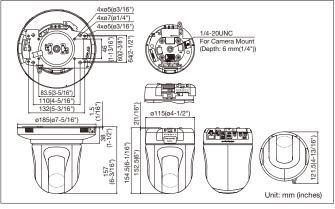
TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission		
		is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: 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		
	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)	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.

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