

# WV-SC384



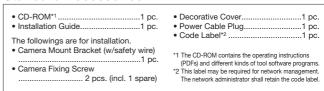
# 18x optical zoom with 8x digital zoom enabling 144x zoom. 36x Extra Optical Zoom under VGA resolution with 8x digital zoom enabling 288x zoom.

#### **Key Features**

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel 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. 36x extra optical zoom at VGA resolution with 8x digital zoom enabling 288x zoom.
- Wide Dynamic Range and ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- Face Wide Dynamic Range technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function: 0.6 lx (Color), 0.5 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.
- 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 2 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 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**

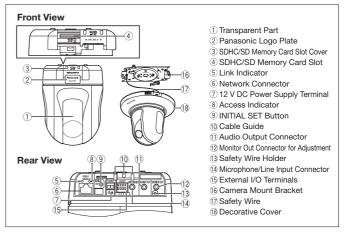
TV System			NTSC	PAL	
Camera	Image Sensor		1/3 type MOS Sensor		
	Effective Pixels		Approx. 1.3 megapixel		
	Scanning Mode		Progressive scan		
	Scanning Area		4.8 mm (H) x 3.6 mm (V) (3/16" (H) x 5/32" (V))		
	Minimum Illumination		Color: 0.6 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High, WDR Off)		
			0.038 lx (F1.6, Auto slow shutter: max. 16/30 s, AGC: High, WDR Off)		
			BW: 0.5 lx (F1.6, Auto slow shutter: Off (1/30 s), AGC: High)		
			0.031 lx (F1.6, Auto slow shutter: max. 16/30 s, AGC: High)		
	White Balance		ATW1 / ATW2 / AWC		
	Light Control Mode		Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter		
			1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500,		
	Shutter Speed				
			1/1,000, 1/2,000, 1/4,000, 1/10,000		
		mic Range	ON / OFF		
	Face Wide Dynamic Range				
	Adaptive Black Stretch		ON / OFF		
	AGC		ON (LOW, MID, HIGH ) / OFF		
	Auto Slow	Shutter	OFF (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s		
	Simple Black and White Mode				
	Digital Noise Reduction		High / Low		
	Video Motion Detection		ON / OFF, 4 areas available		
	Privacy Zone		ON / OFF (up to 2 zones available)		
	Up Side Down		Ceiling mount only		
	Image Stabilizer		ON / OFF		
	Camera Title (OSD)		ON / OFF		
Lens	Focal Length		4.7 mm ~ 84.6 mm		
	Zoom Ratio		18x / 36x with extra optical zoom (a		
	Digital (Electronic) Zoom		8x (Max. 288x 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)		
	Focus Range		1.5 m ~ ∞		
	Aperture Range		F1.6 ~ 22, Close		
Pan and Tilt	Panning Range				
an anu IIIl			0° ~ 350°  Manual: approx. 0.5°/s 100°/s. Preset: up to approx. 300°/s.		
	Panning Speed		Manual: approx. 0.5°/s ~ 100°/s, Preset: up to approx. 300°/s		
	Tilting Ran	ge	-30° ~ 90° (upward-level-downwar		
			Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° / -25° / -30°		
	Tilting Speed		Manual: approx.0.5°/s ~ 100°/s, Preset: up to approx. 100°/s		
	Proportional Pan/Tilt Control		Yes		
	Number of Preset Positions		64		
	Auto Mode		Auto pan / Preset sequence / 360 map-shot / Preset map-shot		
	Image Hold		ON / OFF		
			ON / OFF		
	PTZ Position Display Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min		
	Self Return		ON / OFF		
	Pan/tilt flip	-1			
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TV System		NTSC	PAL	
Network	Maximum Concurrent	Up to 14		
	Access Number	(Depends on network conditions)		
	SDHC/SD Memory Card H.264 recording: Manual REC / Alarm REC (PRE/Post) / Schedule RE			
(Option)		JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failur		
		Compatible SD (SDHC) card: Panasonic 256 MB, 512MB, 1GB,		
		2 GB, 4 GB*, 8 GB*, 16GB*, 32GB* model *SDHC card		
	Face Detection	ON / OFF (with XML notification )		
	Cellular Phone Compatibility	y 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	ø3.5 mm monaural mini jack, Input impedance: approx. 2 kΩ		
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level		
		Output impedance: Approx. 600 Ω, Line level		
	External I/O Terminals	ALARM IN 1, 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, PoE (IEEE802.3af compliant)		
	Consumption	12 V DC : 690 mA, PoE 48 V : 10 W / 190 mA (Class 0 device)		
	Ambient Operating	–10 °C ~ +50 °C (14 °F ~ 122 °F),		
	Temperature/Humidity	90% or less (whitout condensation)		
	Dimensions ø115 mm x 155 mm (H) (ø4-17/32" x 6-3/32" (H)		(H)) (excluding the 12 V DC power cord plug)	
	Mass (approx.)	900 g (1.99 lbs.)		

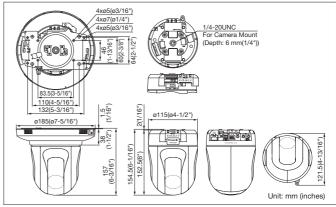
Mass (approx.) 900 g (1.99 lbs.)

"1 The pan/tilt-flip function cannot be activated by clicking live images. When the zoom ratio is adjusted to the "TELE" side, images will be partially hidden even if the pan/tilt-flip function is activated. '2 H.264 and MPEG-4 are alternative. '3 [4:3] and [16:9] are alternative.

#### **Part Names and Functions**



## **Appearance**



#### Trademarks and registered trademarks

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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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