

HD Dome Network Camera



# **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<sup>®</sup>", 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

	<ul> <li>Camera Fixing Scr</li> </ul>	r installation. ucket (w/safety wire) 	Pow     Cod     *1 The     (PDF     *2 This	orative Cover1 pc. ver Cable Plug1 pc. le Label <sup>*2</sup> 1 pc. CD-ROM contains the operating instructions s) and different kinds of tool software programs. label may be required for network management. network administrator shall retain the code label.
Optional Accessories				
	Inner Dome Cover	Indoor Dome Covers WV-Q156C (Clear)		Embedded Ceiling Mount Brackets WV-Q155C (Clear)



Not compatible with optional accessories of conventional cameras

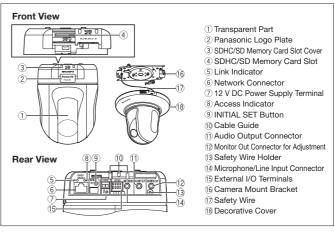
## **Specifications**

			NTSC	PAL	
Camera	Image Sen		1/3 type MOS Sensor		
	Effective Pi Scanning M		Approx. 1.3 megapixel Progressive scan		
	Scanning A		4.8 mm (H) x 2.6 mm (A) (2/16" (H)	·· 5/22" A/\	
	Minimum II		4.8 mm (H) x 3.6 mm (V) (3/16" (H) × 5/32" (V))		
		lumination	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 Bala	000	ATW1 / ATW2 / AWC		
	Light Contr		Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter		
	Shutter Sp				
	Shutter Sp	eeu	1/30, 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500,		
	Wide Dyna	mio Dongo	1/1,000, 1/2,000, 1/4,000, 1/10,000		
		Dynamic Range	ON / OFF		
		lack Stretch	ON / OFF ON (LOW, MID, HIGH) / OFF OFF (1/30 s), max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s OFF / AUTO High / Low		
	AGC	01			
	Auto Slow				
		and White Mode			
		e Reduction			
		on Detection	ON / OFF, 4 areas available ON / OFF (up to 2 zones available) Ceiling mount only		
	Privacy Zor				
	Up Side Do				
	Image Stabilizer		ON / OFF		
	Camera Tit		ON / OFF		
ens	Focal Leng		4.7 mm ~ 84.6 mm		
	Zoom Ratio		18x / 36x with extra optical zoom (at VGA resolution)		
	Digital (Electronic) Zoom Angular Field of View		8x (Max. 288x 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)		
	Focus Range		1.5 m ~ ∞		
	Aperture R		F1.6 ~ 22, Close		
Pan and Tilt	Panning Ra		0° ~ 350°		
	Panning Sp		Manual: approx. 0.5°/s ~ 100°/s, Preset: up to approx. 300°/s		
	Tilting Ran	ge	-30° ~ 90° (upward-level-downward)		
			Tilting angle limit: 10° / 5° / 3° / 0° / -3° / -5° / -10° / -15° / -20° / -25° / -30°		
	Tilting Spe		Manual: approx.0.5°/s ~ 100°/s, Preset: up to approx. 100°/s		
		Pan/Tilt Control	Yes		
		Preset Positions	64		
	Auto Mode		Auto pan / Preset sequence / 360 map-shot / Preset map-shot		
	Image Hold	ł	ON / OFF		
	PTZ Positio	on Display	ON / OFF		
	Self Return	1	10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min / 30 min / 60 min		
	Pan/tilt flip	*1	ON / OFF		
	Map Shot		360 map shot / preset map shot		
Browser GUI	Camera Co	ontrol	Pan/Tilt (16 steps), Zoom, Focus, Click centering, Drag zoom, Iris,		
			Preset position call and program, Auto mode		
			Preset position call and program, A		
	Display Mo	de	Preset position call and program, A Spot, Quad: Image from 16 cameras of	Auto mode	
	Display Mo	de		Auto mode can be displayed in 4 different Quad	
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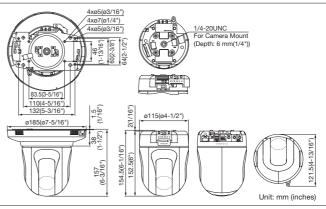
TV System	1	NTSC	PAL	
Network	Maximum Concurrent	Up to 14		
	Access Number	(Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (PRE/Post) / Schedule REC		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure		
		Compatible SD (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	/ 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)) (excluding the 12 V DC power cord plug)		
	Mass (approx.)	900 g (1.99 lbs.)		

"I The part/line 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 part/line 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 part/line function is activated. "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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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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