

Preliminary



HD H.264 Fixed Dome Network Camera

Key Features

- Newly developed 1.3 Megapixel high sensitivity 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
- 720 / 30p (HD) H.264 stream in 16 : 9 aspect ratio
- 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 Simple Day/Night function : 0.3 lux (Color), 0.2 lux (B/W) at F1.3 (Wide)
- Focus Assist ensures easy installation.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- Progressive scan ensures clear images with less motion blur and no tearing even when the subject is moving.
- 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.
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Face detection detect the position of human face, 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.
- 2x, 4x digital zoom controlled by browser
- Camera title display: Up to 20 alphanumeric characters on the browser, Up to 16 alphanumeric characters embedded in the image
- Alarm sources including 1 terminal input, VMD and Panasonic alarm command can trigger actions such as SD/SDHC 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.
- SD/SDHC 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.
- Alarm log, Manual REC log, FTP error log saved in the SD/SDHC memory card is displayed on the browser GUI and can be downloaded to the client PC. Playback or Image data download through the log is also available.
- Internet mode: H.264/MPEG-4 images can be transmitted over HTTP protocol.
- 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
- 2.8 mm ~ 10 mm, 3.6x Varifocal Auto Iris lens

Standard Accessories

• CD-ROM	1 pc.	The followings are for installation.
• Installation Guide	1 pc.	• Power Cable Plug
• Code Label	1 pc.	• External I/O Cable Plug
		• Template for installation
		• Cable tie
		2 pcs. (incl. a spare tie)

Optional Accessories

<p>Embedded Ceiling Mount Bracket WV-Q168</p> 	<p>Smoke Dome Cover WV-CS55</p> 	<p>Ceiling Mount Bracket WV-Q105 (PAL only)</p> 
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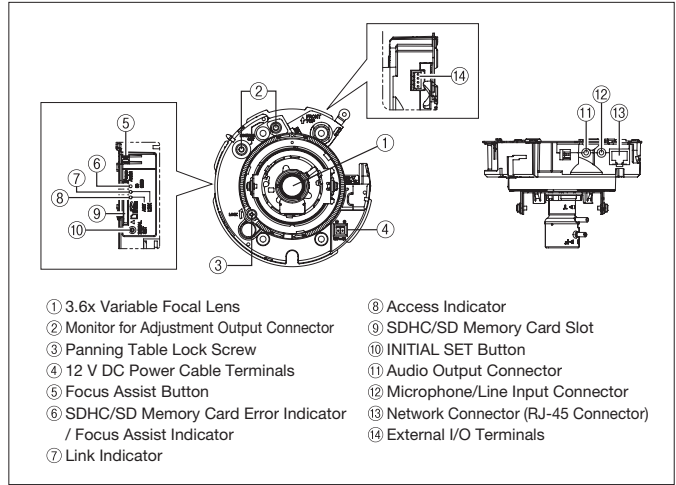
Specifications

TV System	NTSC	PAL		
Camera	Image Sensor	1/3 inch MOS Sensor		
	Effective Pixels	1.3 megapixel		
	Scanning Mode	Progressive scan		
	Scanning Area	4.8 mm (H) x 3.6 mm (V)		
	Minimum Illumination	Color: 0.3 lux, B/W: 0.2 lux at F1.3 (Shutter: 1/30 s, AGC: High), Color: 0.019 lux, B/W: 0.013 lux at F1.3 (Shutter: 16/30 s, AGC: High) Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 sec.)		
	White Balance	AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K)		
	Light Control Mode	Outdoor : Automatic integration of ALC and ELC Indoor [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 sec.) Indoor [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 sec.)		
	Shutter Speed	Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
	Wide Dynamic Range	ON / OFF		
	Face Wide Dynamic Range	ON / OFF (Only at Wide Dynamic Range: ON)		
	Adaptive Black Stretch	ON / OFF (Only at Wide Dynamic Range: OFF)		
	AGC	ON (LOW, MID, HIGH) / OFF		
	Electronic Sensitivity UP	OFF / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s))		
	Simple Day/Night Mode	AUTO / OFF		
	Digital Noise Reduction	High / Low		
	Video Motion Detection	4 areas, Sensitivity: 15 steps, Detection size: 10 steps		
	Privacy Zone	Up to 2 zones, Gray		
	Camera Title (OSD)	Up to 16 alphanumeric characters		
	Focus Adjustment	Focus Assist		
	Vari Focal Length	2.8 mm ~ 10 mm		
Angular Field of View	H: 28.0° (Tele) ~ 100° (Wide), V: 21.0° (tele) ~ 74.0° (Wide)			
Maximum Aperture Ratio	1 : 1.3 (Wide) ~ 1 : 3.1 (Tele)			
Focusing Range	0.3 m ~ ∞			
Pan and Tilt	Panning Range: -170° ~ +180°, Tilting Range: ±75°, Azimuth Range: ±100°			
Browser GUI	Camera Control	Brightness, AUX ON / OFF		
	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.		
	Digital Zoom	1x, 2x, 4x Controlled by browser GUI		
	Camera Title	Up to 20 alphanumeric characters		
	Clock Display	Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)		
	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 Memory Data Download	Still or motion Images recorded in the SD/SDHC memory card can be downloaded.		
	GUI/Setup Menu Language	English, French (Installation required for French)	English, French, Italian, Spanish, German, Russian (Installation required except for English)	
	System Log	Up to 100 (Internal), Up to 4,000 (SD/SDHC memory when the recording format is set to JPEG.) error logs		
	Supported OS	Microsoft® Windows® 7 Professional 64 bit/32 bit, Microsoft® Windows Vista® Business SP1 32 bit, Microsoft® Windows® XP Professional SP3 The language of the OS must be same as selected GUI language.		
	Supported Browser	Windows® Internet Explorer® 8.0 32 bit (Microsoft® Windows® 7 64 bit/32 bit), Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business SP1 32 bit), Microsoft® Internet Explorer® 6.0 SP3 (Microsoft® Windows® XP Professional SP3)		
	Network	Network IF	10Base-T / 100Base-TX, RJ-45 connector	
		Image Resolution *1*2	Aspect ratio: [4 : 3]	H.264: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps MPEG-4: VGA (640 x 480) / QVGA (320 x 240), up to 30 fps JPEG: 1,280 x 960 / VGA (640 x 480) / QVGA (320 x 240), up to 30 fps
Aspect ratio: [16 : 9]			H.264: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps JPEG: 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps	
H.264/MPEG-4 *1			Transmission Mode	Constant bitrate / Framerate priority
Frame Rate		1 / 3 / 5 / 7.5 / 10 / 15 / 20 / 30 fps	1 / 3 / 5 / 7.5 / 10 / 12 (PAL model only) / 15 / 20 / 30 fps	
		Bit Rate/Client	64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 8,192* kbps / Unlimited * H.264 mode only	
		Image Quality	LOW / NORMAL / FINE	
Refresh Interval		0.1 fps ~ 30 fps		
Transmission Type		UNICAST / MULTICAST		
JPEG		Image Quality	10 steps	
		Transmission Type	PULL / PUSH	
Audio Compression		G.726 (ADPCM) 32 kbps / 16 kbps		
Audio Mode		OFF / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex)		
Authentication for Audio		Level 1 only / Level 2 higher / All users		
Total Bit Rate		64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited		
Supported Protocol	IPv6: TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DNS, NTP, SNMP IPv4: TCP/IP, UDP/IP, HTTP, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP			
FTP Client	Alarm image transfer, Periodic image transfer, Active/Passive selectable (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)			

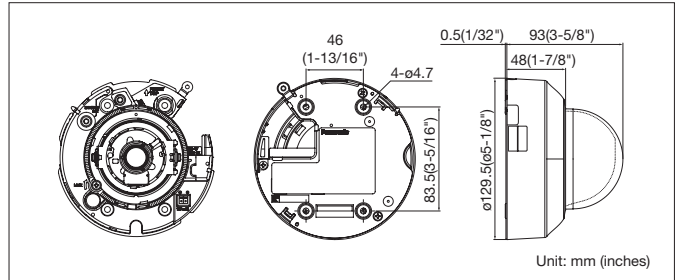
TV System	NTSC	PAL	
Network	SDHC/SD Memory Card (Option)	H.264 recording: Manual REC / Alarm REC (Pre/Post) JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible SD (SDHC) card: Panasonic 256 MB, 512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB* model * SDHC card	
	Face Detection	ON / OFF (with XML notification)	
Alarm	Alarm Source	1 terminal input, VMD, Command alarm	
	Alarm Actions	SDHC/SD memory recording, E-mail notification, Alarm terminal output, Indication on browser, FTP image transfer, Panasonic protocol output	
	Alarm Log Schedule	With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs Alarm / VMD / Access permission	
Input/ Output	Monitor Output (for adjustment)	1.0 V [p-p] / 75 Ω, NTSC composite, RCA Jack	1.0 V [p-p] / 75 Ω, PAL composite, RCA Jack
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm stereo mini jack (monaural input) (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 / DAY/NIGHT IN, ALARM OUT, AUX OUT	
General	Safety/EMC Standard	UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)	CE (EN55022 ClassB, EN55024)
	Power Source and Power Consumption	12 V DC: 280 mA, PoE (IEEE 802.3af): 3.5 W	
	Ambient Operating Temperature/Humidity	-10 °C ~ +50 °C (14 °F ~ 122 °F), 90 % or less (without condensation)	
	Dimensions	ø129.5 mm x 93 mm (H) (ø5-1/8" x 3-5/8" (H))	
	Weight (approx.)	370 g (0.82 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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– Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
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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.
- Weights 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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Printed in Japan (2A-061L)