

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	1 pc.
• Code Label	1 pc.	• External I/O Cable Plug	1 pc.
		• Template for installation	1 pc.
		• 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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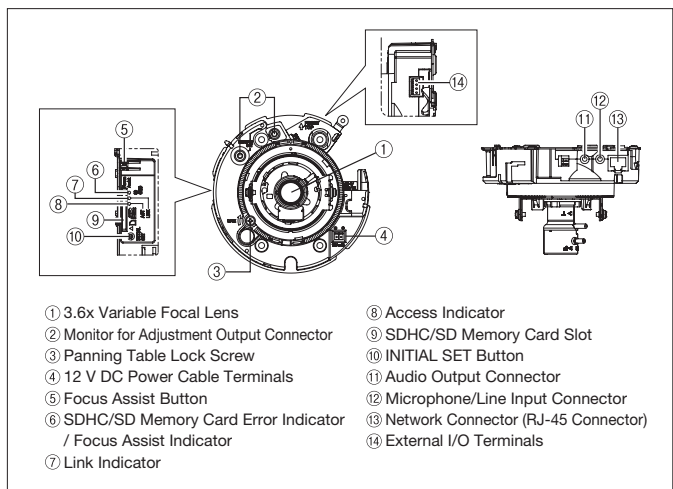
Specifications

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) 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, 3.6x varifocal 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 ~ ∞	
Lens		
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 (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, 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)	

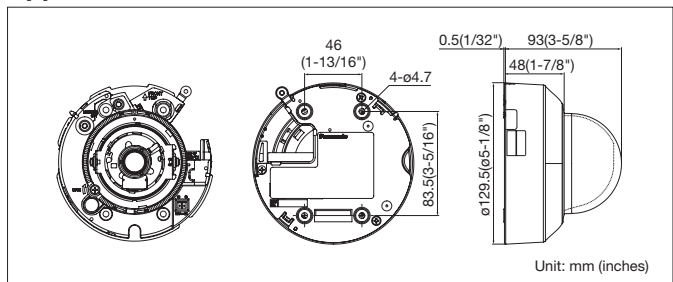
TV System	NTSC	PAL
Network	SDHC/SD Memory Card (Option): H.264 recording: Manual REC / Alarm REC (Pre/Post) JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network failure Compatible SD (SDHC) card: Panasonic 256 MB, 512 MB, 1 GB, 2 GB, 4 GB*, 8 GB*, 16 GB* model * SDHC card Face Detection: 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: With SDHC/SD memory card: 5,000 logs, without SDHC/SD memory card: 1,000 logs Schedule: 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), CE (EN55022 ClassB, EN55024) C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA) Power Source and Power Consumption: 12 V DC: 280 mA, PoE (IEEE 802.3af): 3.5 W Ambient Operating: -10 °C ~ +50 °C (14 °F ~ 122 °F), Temperature/Humidity: 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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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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