

Super Dynamic Full HD PTZ Dome Network Camera **WV-SC588**



Full HD / 1,920 x1,080 H.264 Camera featuring Optical 30x zoom and Super Dynamic

Key Features

- 1080p Full HD images up to 30 fps
- Super high resolution at Full HD / 1,920 x 1,080 created by 2.4 Megapixel high sensitivity MOS image sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,920 x 1080 image size 30x optical zoom
- 90x extra optical zoom at 640x360 resolution with 12x digital zoom enabling 1080x zoom.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- High sensitivity with Day/Night (ICR*) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.6 ICR: IR Cut filter Removal
- VIQS (Variable Image Quality on Specified area) technology allows the designated 2 areas to retain higher image quality while the excluded area will have a decreased image quality, which enables to use lower image file size and bit rate.
- VIQS can be set on preset position (1 to 8) and except preset.
- 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.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes:

Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / Fix shutter Indoor scene (50 Hz / 60 Hz): Flicker caused

by fluorescent lightning will be automatically compensated.

- 360 degrees endless Panning
- Advanced 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 very smoothly 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 256 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 Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 32 private areas, such as house windows and entrances/exits.
- · Camera title display: Up to 20 alphanumeric characters on the browser

- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDXC/SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic alarm 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.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264 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.
- Internet mode: H.264 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Onvif compliant model
- Fog compensation function equipped as standard.

....1 pc.

..1 pc.

...1 pc.

• Dust-resistant design: Minimize degradation of pan/tilt mechanism

Standard Accessories

- CD-ROM*1
- Installation Guide..... Code Label*2
- The followings are for installation.
- Camera Mount Bracket ...
- Camera Fixing Screw (M3)

Decorative Cover.....1 pc. Power cable Plug1 pc. *1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs. *2 This label may be required for network management. The network administrator shall retain the code label.

....1 pc 2 pcs. (incl. 1 spare)

Optional Accessories



This catalog is provided for all over the world. Some accessories may not be available in some countries.

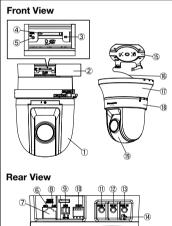
Specifications

| Camera | Image Sen | Isor | Approx. 1/3 type MOS image sensor |
|----------------|--|---|---|
| | Effective P | | Approx. 2.4 mega pixels |
| | Scanning I | | Progressive scan |
| | Scanning Area | | 5.38 mm(H) x 3.02 mm(V) [7/32 inches(H) x 1/8 inches(V)] |
| | Minimum Illumination | | Color: 0.5 lx, BW: 0.06 lx (F1.6, Auto slow shutter: Off (1/30s), Gain:On(High)) |
| | White Balance | | Color: 0.03 k, BW 0.004 k (F1.6, Auto slow shutter: Max. 16/30s, Gain:On(High)) *1 AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) |
| | Light Control Mode | | Outdoor scene: Automatic integration of ALC and ELC Indoor scene [50 Hz]: Automatic integration of ALC and ELC (up to 1/100 s) |
| | Shutter Speed | | Indoor scene [60 Hz]: Automatic integration of ALC and ELC (up to 1/120 s) Fix shutter Off (1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, |
| | Super Dynamic | | 1/1000, 1/2000, 1/4000, 1/10000 On / Off |
| | | arnic r Dynamic | On / Off (Only when Super Dynamic: On) |
| | Dynamic F | | 105 dB typical (Super Dynamic: On, Light Control mode: Indoor) |
| | | Black Stretch | On / Off (Only when Super Dynamic: Off) |
| | Fog comp | ensation | On / Off |
| | AGC Electronic Sensitivity UP | | On (Low) / On (Mid) / On (High) / Off Off / AUTO (Max. 2x (2/30 s), 4x (4/30 s), 6x (6/30 s), 10x (10/30 s), 16x (16/30 s)) |
| | Day & Night (ICR) | | Mode: AUTO1 / AUTO2 / AUTO3 / On / Off, Level: High / Low, with external control |
| | Digital Noise Reduction | | High / Low |
| | Video Motion Detection | | 4 areas, Sensitivity: 15 steps, Detection size: 10 steps |
| | Privacy Zone VIQS | | Gray / Mosaic / Off (up to 32 zones available) |
| | Auto Image Stabilizer | | Up to 2 zones at preset position 1-8 and except preset On / Off |
| | Camera Title (OSD) | | Up to 20 characters (alphanumeric characters, marks) |
| | Focus distance | | Limited / Unlimited |
| Lens | Focal Length | | 4.3 mm to 129.0 mm, 30x |
| | Zoom Ratio Digital (Electrical) Zoom | | 30x / 90x with extra optical zoom (at 640 x 360) 12x (Max. 1080x combined with extra optical zoom at 640 x 360) |
| | Angular Field of View | | H: 2.34° (TELE) - 65.1° (WIDE) V: 1.36° (TELE) - 38.4° (WIDE) |
| | Maximum Aperture Ratio | | 1 : 1.6 (WIDE) - 4.7 (TELE) |
| | Focusing Range | | 2.0 m - ∞ |
| | Aperture Range | | F1.6 - Close |
| Pan and Tilt | Panning R Panning S | | 360° endless Manual: approx. 0.065°/s - 120°/s, Up to 256 steps (depending on the controller) |
| | Farming 5 | peeu | Preset: up to approx. 300°/s |
| | Tilting Ran | ge | -25° to 205° (upward-level-downward) |
| | Tilting Speed | | $ \begin{array}{c} \mbox{Selectable tilting angle: } 10\ ^{\prime} 5\ ^{\prime} 3\ ^{\prime} 0\ ^{\circ} / - 3\ ^{\circ} / - 5\ ^{\circ} / - 10\ ^{\circ} / - 15\ ^{\circ} / - 20\ ^{\circ} / - 25\ ^{\circ} \\ \mbox{Manual: approx. } 0.065^{\circ} / s\ to\ 120^{\circ} / s\ Up\ to\ 256\ steps\ (depending\ on\ the\ controller) \\ \mbox{Manual: approx. } 10^{\circ} / - 10\ ^{\circ} / - 10\ ^$ |
| | Proportional Pan/Tilt Control | | Preset: up to approx. 300°/s Yes |
| | Number of Preset Positions Auto Mode | | 256 preset sequence / auto pan / auto track / patrol |
| | Image Hol | | 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 |
| | Map Shot | | 360° map shot / preset map shot |
| Browser GUI | Camera Control Display Mode | | Pan/Tilt (256 steps), Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad |
| | Camera Title | | Screens or 16 split screen (JPEG only). 20 characters camera title available Up to 20 alphanumeric characters |
| | Clock Display | | Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual) |
| | Alarm Con | | Reset |
| | One Shot Audio | Capture | A still picture will be displayed on a newly opened window. Mic (Line) Input : On / Off Volume adjustment: Low / Middle / High Audio Output : On / Off Volume adjustment: Low / Middle / High |
| | SD Memory Data Download | | Audio Output : On / Off Volume adjustment: Low / Middle / High Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded |
| | | , Menu Language | English / Italian / French / German / Spanish / Russian / Chinese / Japanese |
| | System Lo | g | Up to 100 (Internal) |
| | Supported OS *2 *3 | | Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG.) error logs Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, Microsoft® Windows® XP SP3 |
| | Supported Browser | | Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), |
| | N= | | Windows® Internet Explorer® 7 (32 bit) |
| Network | Network IF Image | Image Capture Mode: | 10Base-T / 100Base-TX, RJ45 connector H.264 : 1,920 x 1,080 / 640 x 360 / 320 x 180, up to 30 fps |
| | Resolution | 2 mega pixel [16:9] | JPEG (MJPEG): 1,920 x 1,080 / 640 x 360 / 320 x 160, up to 30 lps |
| | Resolution | | |
| | Resolution | Image Capture Mode: 1.3 mena pixel [16:9] | H.264 : 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps |
| | Resolution | 1.3 mega pixel [16:9] | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps |
| | nesolution | 1.3 mega pixel [16:9] Image Capture Mode: | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps |
| | | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps |
| | H.264 *4 | 1.3 mega pixel [16:9] Image Capture Mode: | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / QVGA(320 x 240), up to 30 fps |
| | | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps |
| | | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,086 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Lowr / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s |
| | | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H,264 : 1,280 x 960 / VGA(640 x 480) / 0VGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / 0VGA(320 x 240), up to 30 fps Constant Ditrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine |
| | H.264 *4 | 1.3 mega pixel [16.9] Image Capture Mode: 1.3 mega pixel [4.3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Image Quality Refresh Interval | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 566 / 384 / 512 / 768 / 1,024 / 1,556 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps |
| | H.264 *4 | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,244 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push |
| | H.264 *4 | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H,264 : 1,280 x 960 //GA(840 x 480) / OVGA(820 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps G4 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8, 192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps Pul / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, |
| | H.264 ^{*4} JPEG Audio Com | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBB 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,286 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and Audio detection |
| | H.264 *4 | 1.3 mega pixel [16:9] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H,264 : 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8, 192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps Pul / Push 6.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, |
| | H.264 ^{*4} JPEG Audio Com Audio Mode | 1.3 maga pixel [16:3] Image Capture Mode: 1.3 maga pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Image Quality Refresh Interval Transmission Type Image Quality Refresh Interval Transmission Type pression | JPEG (MJPEG): 1.280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1.280 x 960 / VGA(640 x 480) / 0VGA(320 x 240), up to 30 fps JPEG (MJPEG): 1.280 x 960 / VGA(640 x 480) / 0VGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,066 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and Audio detection Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users |
| | H.264 ^{*4} JPEG Audio Com Audio Mod Authenticat Total Bit Ra | 1.3 mega pixel [16:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mede Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type pression pression ion for Audio te | JPEG (MJPEG): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H,264 : 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1,280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,236 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and Audio detection Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited |
| | H.264 ^{*4} JPEG Audio Com Audio Mode | 1.3 mega pixel [16:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mede Frame Rate Bit Rate/Client Image Quality Refresh Interval Irransmission Type pression pression ion for Audio te | JPEG (MJPEG): 1.280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1.280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1.280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and Audio detection Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,066 / 8,192 kbps / Unimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, STP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP |
| | H.264 ^{*4} JPEG Audio Com Audio Mod Authenticat Total Bit Ra | 1.3 mega pixel [16:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Bit Rate/Client Image Quality Refresh Intery Refresh Intery Refresh Intery Refresh Intery Befresh Intery Depension | JPEG (MJPEG): 1.280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1.280 x 960 //GA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1.280 x 960 //GA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBB 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 266 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and Audio detection Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimitec 1Pv5: TOP/IR, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, NTP, SMMP, DHCPv6, ICMP, ARP |
| | H.264 ^{*4} JPEG Audio Com Audio Mode Authenticat Total Bit Re Supported | 1.3 mega pixel [16:3] Image Capture Mode: 1.3 mega pixel [4:3] Transmission Mode Frame Rate Bit Rate/Client Bit Rate/Client Image Quality Refresh Intery Refresh Intery Refresh Intery Refresh Intery Befresh Intery Depension | JPEG (MJPEG): 1.280 x 720 / 640 x 360 / 320 x 180, up to 30 fps H.264 : 1.280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps JPEG (MJPEG): 1.280 x 960 / VGA(640 x 480) / OVGA(320 x 240), up to 30 fps Constant bitrate / Frame rate priority / Best effort / Advanced VBR 1 / 3 / 5 / 7.5 / 10 / 12 / 15 / 20 / 30 fps 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 / 8,192 / 10,240 / 12,288 / 14,336 kbps Low / Normal / Fine 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s Unicast / Multicast 10 steps 0.1 fps to 30 fps Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps for transmitting, AAC for audio recording and Audio detection Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex) Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,066 / 8,192 kbps / Unimited IPv6: TCP/IP, UDP/IP, HTTP, RTP, STP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, ICMP, ARP |

| Network | SDXC/SDHC/SD | H.264 recording (Audio recording is enable): Manual REC / Alarm REC |
|---------|-------------------------------|---|
| | Memory Card (Option) | (Pre/Post) / Schedule REC |
| | | JPEG recording: Manual REC / Alarm REC (Pre/Post) / Backup upon |
| | | network failure |
| | | Compatible SD (SDHC/SDXC) card: Panasonic |
| | | 2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB*, 64GB** model |
| | | *SDHC card, ** SDXC card (except miniSD card and microSD card) |
| | Cellular Phone Compatibility | JPEG image |
| | Mobile Terminal Compatibility | iPad, iPhone, iPod touch |
| Alarm | Alarm Source | 3 terminals input, VMD, Command alarm, Audio detection |
| | Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, |
| | | Indication on browser, FTP image transfer, Panasonic protocol output |
| | Alarm Log | With SDXC / SDHC / SD memory card: 5,000 logs, |
| | | without SDXC / SDHC / SD memory card: 1,000 logs |
| | Schedule | Alarm / VMD / Access permission / H.264 recording / Audio detection |
| Input/ | Monitor Output | VBS: 1.0V[p-p] / 75Ω, |
| Output | (for adjustment) | NTSC / PAL composite, ø3.5 mm monaural mini 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 1 (DAY/NIGHT IN), ALARM IN 2 (ALARM OUT), ALARM IN 3 (AUX OUT) |
| General | Safety/EMC Standard | <safety></safety> |
| | | UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 |
| | | <emc></emc> |
| | | FCC Part15 Class A, ICES-003 Class A, EN55022 Class B, EN55024 |
| | Power Source and | DC power supply: 12 V DC / 1.0 A / 12 W |
| | Power Consumption | PoE device: 48 V DC / 250 mA / Approx. 12 W (Class 0 device) |
| | | * FOR UL LISTED MODEL(S), ONLY CONNECT 12 V DC CLASS 2 POWER SUPPLY |
| | | (UL 1310/CSA 223) or LIMITED POWER SOURCE (IEC/EN/UL/CSA 60950-1). |
| | Ambient Operating Temperature | PoE: -10°C to +55°C (14 °F to 131 °F) |
| | Ambient Operating Humidity | Less than 90 % (no condensation) |
| | Dimensions | ø185 mm x 211 mm (H) {ø7-9/32 inches x 8-5/16 inches (H)} |
| | | (including the decorative covers) |
| | Mass (approx.) | Approx. 1.5 kg {3.31 lbs} |
| | Finish | Main body: ABS resin, sail white |
| | | |

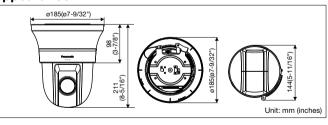
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Part Names and Functions



①Cover Top 2 SDXC/SD Memory Card Slot Cover ③Live Indicator (4) SDXC/SD Memory Card Slot ⑤ INITIAL SET Button 6 Link Indicator(lit when linking) ⑦Network Connector 8 Access Indicator (blinks when accessing) 9 12 V DC Power Supply Terminal 1 External I/O Terminals ① Microphone/line Input Connector 12 Audio Output Connector ⁽¹⁾ Monitor Out Connector for Adjustment () Safety Wire Holder (5) Camera Mount Bracket (accessory) (16) Safety Wire (fixed with the mount bracket) 1 Decorative Cover Upper (accessory) 18 Decorative Cover Lower (accessory) (19) Camera

Appearance



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Important

- Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.
- Masses and dimensions are approximate.
 Specifications are subject to change without notice.
 All product pictures are NTSC models.

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