Panasonic

BUSINESS

Super Dynamic Full HD Vandal Resistant Dome Network Camera

WV-SFR631L

Super Dynamic HD Vandal Resistant Dome Network Camera

WV-SFR611L



*i-VMD Type2: Intruder Detection / Loitering Detection / Direction Detection / Scene Change Detection / Object Detection / Cross Line Detection

Full HD / 1,920 x 1,080 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFR631L) HD / 1,280 x 720 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFR611L)

Key Features

- 1080p Full HD / 720p HD images up to 60 fps*1
- Approximate 1/3 inches, high sensitivity MOS image sensor
- Super high resolution at Full HD/1,920 x 1,080 created by high sensitivity MOS image sensor. (WV-SFR631L only)
- Multiple H.264 (High profile) streams (max. 4 streams) and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- Maximum Screen Size is 2,048 x 1,536* @30 fps, H.264 (WV-SFR631L only)
 Used by super resolution techniques
- Enhanced Super Dynamic^{*1} and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- Smart coding Technology: Group of Pictures (GOP) control function removes unnecessary information from the frame for realizing efficient encoding.
 Auto VIQS (Variable Image Quality on Specified area) function recognizes the no movement area in a video automatically and lowering the resolution of it to reduce the data size.

With the latest bit rate reducing technology, **GOP** control, **Auto VIQS, 3D-MNR** (Multi process Noise Reduction) and **FDF** (Frequency Divided Filter), the network bandwidth and the disk space of recorder can be saved.

- High sensitivity with Day/Night (ICR*) function:
 WV-SFR631L: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
 WV-SFR611L: 0.01 lx (Color), 0.003 lx (B/W) at F1.3
 *ICR: IR Cut filter Removal
- IR LED equipped: The equipped infrared LED makes it possible to take pictures at zero lx.
- IR LED is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- New camera attachment bracket allows an **easy camera installation** toward all four directions.
- High Speed ABF (Auto Back Focus) and Motorized Zoom ensures easy installation.
- Newly developed lens with aperture control function realizes the best focus in any environment.
- VIQS (Variable Image Quality on Specified area) technology allows the designated eight 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.
- Cropping function enables to provide whole image and the part image simultaneously.
 Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Face Super Dynamic technology ensures clear face image.
- Lens distortion compensation for the distorted images can be adjusted 256 steps.
- Selectable light control modes:

Outdoor scene,Indoor scene (50 Hz) / Indoor scene (60 Hz),Fix shutter Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.

- 3x (WV-SFR631L), 2x (WV-SFR611L) extra optical zoom at 640 x 360 resolution
- 2x, 4x digital zoom controlled by browser
- VMD (Video Motion Detection) with 4 programmable detection areas,
 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 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 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.
- 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.
- Double SDXC/SDHC/SD Memory card slots for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (H.264 / JPEG). Realize long-term recording and auto backup function.
- Newly developed dome cover provides clearer images above the horizontal.
 Thereby, it expands the tilting range of the lens.
- Face detection function detects the position of human face and the information is sent by XML or video stream.(Optional)
- Can be added new intelligent extension software (Optional) in addition to built-in VMD (Video Motion Detection), alarm function.
- Fog compensation function equipped as standard.
- HLC (High Light Compensation) technology reduces strong light sources such as vehicle headlights to prevent camera being blinded.
- Super Chroma Compensation function realizes a better color reproducibility even in low illumination.
- 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 /
 Portuguese / Russian / Chinese / Japanese
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Vandal resistant mechanism for high reliability
- *1 Super Dynamic function is automatically set off on 60 fps mode

Optional Accessories

Ceiling Mount Bracket
WV-Q105A

Ones I

Ceiling Mount Bracket
WV-Q174B



Smoke Dome Cover



Specifications

| Spec | ПІС | ations | |
|----------------|--|---------------------------------------|--|
| | Image S | | Approx. 1/3 type MOS image sensor |
| | | ng Mode | Progressive scan |
| | Scannir | | WV-SFR631L: 5.28 mm (H) x 3.30 mm (V) {7/32 inches(H) x 1/8 inches(V) } WV-SFR611L: 4.86 mm (H) x 3.65 mm (V) {3/16 inches(H) x 5/32 inches(V) } |
| | Minimum Illumination | | WV-SFR631L: Color: less than 0.04 k, BW: 0.01 k (F1.3, Maximum shutter: Max. 1/30s, Gain: On(High)) Color: less than 0.03 k, BW: 0.0007 k (F1.3, Maximum shutter: Max. 16/30s, Gain: On(High)) WV-SFR611L: |
| | | | Color: less than 0.01 b, BW: 0.003 b: (F1.3, Maximum shutter: Max. Off (1/30s), Gain: On(High)) Color: less than 0.0007 b; BW: 0.0002 b: (F1.3, Maximum shutter: Max. 16/30s, Gain:On(High)) ¹¹ |
| | IR LED Light IR LED irradiation distance | | Off / Auto (High / Mid / Low) Approx. 30 m {98.43 feet} |
| | White Balance Light Control Mode | | AWC (2,000 - 10,000 K), ATW1 (2,700 - 6,000 K), ATW2 (2,000 - 6,000 K) Outdoor scene : Automatic integration of ALC and ELC Indoor scene [50 Hz] : Automatic integration of ALC and ELC with flickerless |
| | Shutter Speed | | Indoor scene [60 Hz]: Automatic integration of ALC and ELC with flickerless [2 mega pixel [16: 9][60 fps mode]] 1.3 mega pixel [16: 9][60 fps mode]] 0ff(1/60), 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/4000, 1/10000] Other than [2 mega pixel [16: 9][60 fps mode]) 1.3 mega pixel [16: 9][60 fps mode]) 0ff(1/80), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/1000 |
| | Super Dynamic*2 Face Super Dynamic | | On (High) / On (Normal) / Off On / Off (Only when Super Dynamic : On) |
| | Adaptive Black Stretch | | On / Off (Only when Super Dynamic : Off) |
| | Fog compensation | | On / Off (Only when Super Dynamic / Adaptive black stretch : Off) |
| | AGC Electronic Sensitivity UP | | On (Low) / On (Mid) / On (High) / Off max. 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/100 s, max. 1/60 s, max. 1/30 s, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s |
| | Day/Night (ICR) | | Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC) |
| | Dynamic Range Digital Noise Reduction | | 133 dB typ. (Super Dynamic : On, Light Control Mode : indoor) High / Low |
| | Video N | Notion Detection | 4 areas, Sensitivity: 15 steps, Detection size: 10 steps |
| | Privacy Zone / VIQS | | Up to 8 zones Up to 20 characters (alphanumeric characters, marks) |
| | Camera Title (OSD) Electric Zoom | | TELE / WIDE , Auto Coarse adjustment of Focus |
| | Focus Adjustment | | ABF / MANUAL (Html only) |
| Lens | Lens Distortion Compensation Vari Focal Length | | 256 steps |
| Lens | | Field of View | 2.8 - 10mm {1/8 inches - 13/32 inches} WV-SFR631L [16:9 mode] Horizontal: 28.8° (TELE) - 102.9° (WIDE) |
| | | | Vertical : 16.0° (TELE) = 56.2° (WIDE) |
| | | | Vertical : 14.7° (TELE) – 51.8° (WIDE) [4 : 3 mode] Horizontal : 26.4° (TELE) – 94.0° (WIDE) Vertical : 19.8° (TELE) – 69.5° (WIDE) |
| | Maximum Aperture Ratio Focusing Range | | 1 : 1.3 (WIDE) - 1 : 3.0 (TELE) *with Smart DoF (Depth of Field) mode 0.3 m - ∞ |
| Adjusting | | | Horizontal: ± 180°, Vertical: 0-85°, Image tilt adjustment range: -45°(Left) to +300°(Right) |
| Browser GUI | Cropping | | H.264(1) / H.264(2) / H.264(3) / H.264(4) / H.264(all) / JPEG(1) / JPEG(2) / JPEG(3) Up to 4 image capture areas can be specified |
| | Camera Control Display Mode | | Brightness, AUX On / Off Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad |
| | Digital Zoom | | screens or 16 split screen (JPEG only). 20 characters camera title available. 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 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 GUI / Setup Menu Language System Log | | Still or motion Images recorded in the SDXC/SDHC/SD memory card can be downloaded English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese Up to 100 (Internal), Up to 4,000 (SDXC/SDHC/SD memory when the recording format is set to JPEG) error logic |
| | Supported OS *3 Supported Browser | | Microsoft® Windows® 10, Microsoft® Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit), Windows® Internet Explorer® 10 (32 bit), |
| | Capported Browner. | | Windows® Internet Explorer® 9 (32 bit), Windows® Internet Explorer® 8 (32 bit), Windows® Internet Explorer® 7 (32 bit), Safari*, Google Chrome*, Mozilla Firefox * with limitations in the part of setting screen |
| Network | Networ | k IF | 10Base-T / 100Base-TX, RJ45 connector •2 mega pixel [16 : 9] (30/60 fps) |
| | Image | WV-SFR631L | 1,920 x 1,080 / 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 *2 mega pixel [4 : 3] (30 fps) 1,600 x 1,200 / 1,280 x 960 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 *3 mega pixel [4 : 3] (30 fps) "Used by super resolution techniques |
| | Resolution | WV-SFR611L | 2,048 x 1,536* / 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 •1.3 mega pixel [16: 9] (30/60 fps) 1,280 x 720 / 640 x 360 / 320 x 180 / 160 x 90 •1.3 mega pixel [4: 3] (30 fps) 1,280 x 960 / 800 x 600 / 640 x 480 / 400 x 300 / 320 x 240 / 160 x 120 |
| | | Transmission Mode | Constant bit rate / Variable bit rate / Framerate priority / Best effort / Advanced VBR |
| | H.264 *4 | Frame Rate Bit Rate/Client | 1/3/5/7.5/10/12/15/20/30/60 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 / 16,384 / 20,480 / 24,576 kbps |
| | | Image Quality | Low / Normal / Fine |
| | | Smart Coding mode Refresh interval | On (Low / Mid / High) / Off (Only when "Variable bit rate" is selected) 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s |
| | | Transmission Type | Unicast / Multicast |
| | | Image Quality | 10 steps |
| | JPEG | Refresh interval | 0.1 fps - 30 fps (JPEG frame rate will be restricted when displaying both JPEG and H.264 images |
| | Transmission Type Audio Compression | | Pull / Push G.726 (ADPCM) 32 kbps / 16 kbps, G.711 64 kbps / AAC-LC |
| | Audio Mode | | Off / Mic (Line) input / Audio output / Interactive (Half duplex) / Interactive (Full duplex |
| | _ | | |
| | Authent Total Bi | t Rate | Level 1 only / Level 2 higher / All users 64 / 128 / 256 / 384 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited |

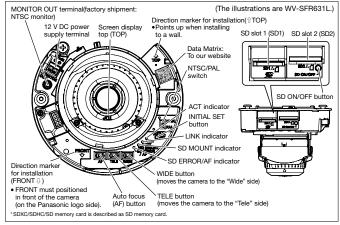
| Moturovi: | ETD Olivet | Alemaine de la Companya de la Compan |
|-----------|---|--|
| Network | FTP Client | Alarm image transmission, FTP periodic transmission (When the FTP transmission is failed, backup on an optional SDXC/SDHC/SD memory card is available.) |
| | No. of Simultaneous Users | Up to 14 users (Depends on network conditions) |
| | SDXC/SDHC/SD | H.264 recording: |
| | Memory Card (Option) | Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure |
| | * Manufactured by Panasonic | 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*, 64 GB** model *SDHC card, ** SDXC card (except miniSD card and microSD card) |
| | (SD speed class 4 or higher) * Use the SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of SD Speed Class 10. | |
| | Employment of two SD cards | Dual Recording for Redundancy Series Recording for long time |
| | Cellular Phone Compatibility | JPEG image, AUX control (by access level) |
| | Mobile Terminal Compatibility | iPad, iPhone, iPod touch (iOS 4.2.1 or later), Android™ mobile terminals |
| Alarm | Alarm Source | 3 terminals input, VMD, Command alarm, Audio detection alarm |
| | Alarm Actions | SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, |
| | | Indication on browser, FTP image transfer, Panasonic protocol output |
| | Alarm Log | With SDXC/SDHC/SD memory card : |
| | | Up to 50,000 logs for each SD memory card |
| | Schedule | Alarm / VMD / Access permission / H.264 recording / Scene file |
| Input/ | Monitor Output | VBS: 1.0 V [p-p]/75 Ω, NTSC / PAL composite, |
| Output | (for adjustment) | ø3.5mm mini jack MONITOR OUT conversion plug included |
| | Microphone/Line Input | MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack |
| | | (monaural input) (Applicable microphone: Plug-in power type) |
| | | Supply voltage: 2.5 V ±0.5 V Input impedance: Approx. 2 kΩ (unbalanced) |
| | Audio Output | ø3.5 mm stereo mini jack (monaural output) Output impedance: Approx. 600 Ω (unbalanced) |
| | External I/O Terminals | ALARM IN 1(DAY/NIGHT IN), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT) |
| General | Safety | UL (UL60950-1), C-UL (CAN/CSA C22.2 No.60950-1), CE, IEC60950-1 |
| | EMS | FCC (Part15 ClassA), ICES003 ClassA, EN55022 ClassB, EN55024 |
| | Power Source and | When IR LED is ON |
| | Power Consumption | WV-SFR631L |
| | | DC power supply : DC12 V / 760 mA / Approx. 9.1 W PoE (IEEE802.3af compliant) Device : DC48 V / 240 mA / Approx. 11.1 W (Class 0 device) |
| | | WV-SFR611L |
| | | DC power supply : DC12 V / 690 mA / Approx. 8.2 W |
| | | PoE (IEEE802.3af compliant) Device: DC48 V / 200 mA / Approx. 9.4 W (Class 0 device) |
| | | * ONLY CONNECT DC12 V CLASS 2 POWER SUPPLY. |
| | Ambient Operating Temperature | -10 °C to +50 °C (14 °F to 122 °F) |
| | Ambient Operating Humidity | 10 to 90 % (no condensation) |
| | Shock Resistance | Compliant with 20J IEC60068-2-75 / IEC 62262 IK10 |
| | Dimensions | ø129.5 mm x 102.5 mm (H) {ø5-3/32 inches x 4-1/32 inches (H)} |
| | | Dome radius 41.5 mm {1-5/8 inches} |
| | Mass (approx.) | Approx. 0.76 kg {1.68 lbs} |
| | Finish | Main body : Aluminum die cast, sail white / Dome section: Clear polycarbonate resin |
| | | |

*1 Converted value *2 Super Dynamic function is automatically set off on 60 fps mode.
*3 Refer to *Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 8.1 / Windows® 10* on

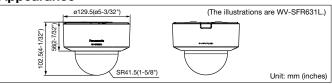
the provided CD-ROM for further information about system requirements for a PC and prevailors when using Microsoft® Windows 10 or Microsoft® Windows 8 or Microsoft® Windows 8

*4 Transmission for 4 streams can be individually set.

Part Names and Functions



Appearance



Trademarks and registered trademarks

– Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.

- microsort, and windows are registered trademarks of microsort Corporation in the U.S. and o iPad, iPhone and iPod touch are registered trademarks of Apple Inc.
- Android is a trademark of Google Inc.
- "I-PRO SmartHD" logo is trademark or registered trademark of Panasonic Corporation.
- ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
- All other trademarks identified herein are the property of their respective owners.

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.

DISTRIBUTED BY:

Panasonic