Super Dynamic Full HD Vandal Resistant & Waterproof Dome Network Camera
WV-SFV631L
Super Dynamic HD Vandal Resistant & Waterproof Dome Network Camera
WV-SFV611L

Full HD / 1,920 x 1,080 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFV631L)
HD / 1,280 x 720 60 fps H.264 Vandal Resistant Network Camera featuring Super Dynamic (WV-SFV611L)

Key Features

• 1080p Full HD / 720p HD images up to 60 fps
• 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-SFV631L 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* 60 fps (WV-SFV631L only)
* Used by super resolution techniques
• Enhanced Super Dynamic* 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-SFV631L: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
  - WV-SFV611L: 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 AFB (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 area 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.
  - 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.
  - IR LED equipped as standard.
  - Enhanced Super Dynamic 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)
• IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(UL50), NEMA 4X compliant.
• Dehumidification device for use with various weather conditions
• Vandal resistant mechanism for high reliability

*1 Super Dynamic function is automatically set off on 60 fps mode.
**Specifications**

### Camera

<table>
<thead>
<tr>
<th>Image Sensor</th>
<th>Approx. 1/3&quot; type MOS sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanning Mode</td>
<td>Progressive scan</td>
</tr>
</tbody>
</table>
| Scanning Area | WV-SPV11L: 2.38 mm x 1.8 mm (3.0x2.0 pixels in 7/24 inches (H:1/8 inches (V))  
WV-SPV11L: 4.48 mm x 3.35 mm (21/28 inches (H:1/8 inches (V)) |
| Minimum Illumination |  
WV-SPV11L: Color: less than 0.04 lx, B/W: 0.01 lx  
(F1.3, Maximum shutter: Max. 1/500, Gain: On/High)  
WV-SPV11L: Color: less than 0.007 lx, B/W: 0.0007 lx  
(F1.3, Maximum shutter: Max. 16/30, Gain: On/High) |
| Lens |  
Focusing Range: 0.3 m - ∞  
Angular Field of View: [4 : 3 mode]  
Horizontal: 23.7° (TELE) – 84.3° (WIDE)  
Vertical: ±180°, Vertical: 0-85°  
[4 : 3 mode]  
Horizontal: 26.4° (TELE) – 93.7° (WIDE) |

### Network

<table>
<thead>
<tr>
<th>Network</th>
<th>JPEG</th>
<th>Image refresh interval</th>
<th>10 steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission Type</td>
<td>0.1 fps - 30 fps</td>
<td>JPEG (variability will be restricted when displaying both JPEG and H.264 images)</td>
<td></td>
</tr>
</tbody>
</table>

### Audio

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Mode</td>
<td>Apple Lossless (AL lossless) / Audio out/autoplay (iterations: 5) / Interactive (Full duplex)</td>
</tr>
<tr>
<td>Authentication for Audio</td>
<td>On / Off when “Variable bit rate” is selected</td>
</tr>
<tr>
<td>Total Bit Rate</td>
<td>44.1 kHz / 288 kbps / 384 kbps / 44.1 kHz / 512 kbps / 64 kbps / 88.2 kHz / 128 kbps / 48 kHz / 192 kbps</td>
</tr>
</tbody>
</table>

### Supported Protocol

| Protocol | HTTP, HTTPS, RTSP, RTP, FTP, SMTP, DNS, NNTP, SNMP, DHCPv4, LDL, ICMPP, ARP  
Pv4 | TCP/IP, LDPv4, HTTP, HTTPS, RTP, RTSP, FTP, SMTPT, DHCP, DNS, ONT, SNMP, UDP/IP, ICMP, ARP |
|---|---|

### FTP Client

<table>
<thead>
<tr>
<th>FTP Client</th>
<th>Image transmission, PTP periodic transmission</th>
</tr>
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</table>

### Supported Browser

| Browser | Windows® Internet Explorer® 7 (32-bit)  
Windows® Internet Explorer® 8 (32-bit)  
Windows® Internet Explorer® 9 (32-bit)  
Windows® Internet Explorer® 10 (32-bit) |

### Display Mode

| Display Mode | 1x, 2x, 4x controlled by browser GUI  
16 split screen (JPEG only). 20 characters camera title available. |
|---|---|

### Network Interface

| Network Interface | Network 3  
Ethernet: 10Base-T / 100Base-TX, RJ45 connector |

### Resolution

| Resolution | 1.3 mega pixel [16 : 9], 30/60 fps  
2 mega pixel [4 : 3], 30 fps  
320 x 240 / 160 x 120  
1,600 x 1,200 / 1,280 x 960 / 800 x 600 / 640 x 480 / 480 x 300 / 320 x 240 / 160 x 120 |

### Memory Card (Option)

| Memory Card (Option) | SDXC/SDHC/SD memory card recording, E-mail notification, HTTP alarm notification indication on browser, FTP image transfer, Panasonic iVMS-4500, 4-layer output |

### Alarm

<table>
<thead>
<tr>
<th>Alarm Source</th>
<th>Alarm trigger notification Indication on browser, FTP image transfer, Panasonic iVMS-4500, 4-layer output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm Actions</td>
<td>Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure</td>
</tr>
</tbody>
</table>

### Power Source and Power Consumption

| Power Source and Power Consumption | When IR LED is ON  
WV-SPV11L  
DC power supply: DC12 V / 1080 mA / Approx. 12.9 W  
PoE (IEEE802.3at compliant) Device:  
DC4 V / 270 mA / Approx. 12.95 W (Class 0 device)  
WV-SPV11L  
DC power supply: DC12 V / 10/10mA / Approx. 12.1 W  
PoE (IEEE802.3af compliant) Device:  
DC4 V / 270 mA / Approx. 12.95 W (Class 0 device) |

### Dimensions

| Dimensions | 104.4 mm x 139.9 mm (H:1/2 inches x 1/2-1/16 inches)  
Maximum width: 400 mm (1-1/2 inches)  
Maximum height: 300 mm (12 inches)  
Maximum depth: 180 mm (7 inches) |

### Finish

| Finish | Man body: Aluminum die cast, light gray  
Dome section: Clear polycarbonate resin |

### Notes

1. Converted value
2. Super Dynamic function is automatically set on off 60 fps mode.
3. Refer to “Notes on Windows Vista® / Windows® 7 / Windows® 8 / Windows® 10” for the provided CD-ROM for further information about system requirements for a PC and precautions when using Microsoft® Windows® 10 or Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® Vista®.
4. Transmission for 4 streams can be individually set.

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**Network Interface**

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<tr>
<th>Network Interface</th>
<th>10/100/1000Base-TX, 1000Base-X, 1000Base-LX, 1000Base-SX, 100Base-TX, 10Base-T</th>
</tr>
</thead>
</table>

**Image Quality**

<table>
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<tr>
<th>Image Quality</th>
<th>0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5s</th>
</tr>
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</table>

**Image Compression**

|---|---|

**Audio Mode**

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**Total Bit Rate**

| Total Bit Rate | 44.1 kHz / 288 kbps / 384 kbps / 44.1 kHz / 512 kbps / 64 kbps / 88.2 kHz / 128 kbps / 48 kHz / 192 kbps |

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Windows® Internet Explorer® 10 (32-bit)  
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 |
|---|---|

**Setup Menu Language**

| Setup Menu Language | English, Italian, German, French, Spanish, Portuguese, Russian, Chinese, Japanese |

**System Log**

| System Log | Up to 100 (Internal)  
Up to 4000 (SDXC/SDHC/SD memory when the recording format is JPEG or Motion Images recorded in the SDXC/SDHC/SD memory card) |

**Supported OS**

| Supported OS | Microsoft® Windows® 7  
Microsoft® Windows® 8.1  
Microsoft® Windows® 8  
Microsoft® Windows® Vista® |

**Supported Browser**

| Supported Browser | Microsoft® Internet Explorer® 11 (32-bit)  
Windows® Internet Explorer® 10 (32-bit)  
Windows® Internet Explorer® 9 (32-bit)  
Windows® Internet Explorer® 8 (32-bit)  
Windows® Internet Explorer® 7 (32-bit)  
Safari®, Google Chrome®, Mozilla Firefox®  |

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**Power Source**

| Power Source | DC power supply: 121 V / 1080 mA / Approx. 12.9 W  
PoE (IEEE802.3at compliant) Device:  
DC4 V / 270 mA / Approx. 12.95 W (Class 0 device)  
WV-SPV11L  
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Part Names and Functions

The illustrations are WV-SFV631L.

Appearance

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Optional Accessories

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<tr>
<th>Optional Accessories</th>
<th>Ceiling Mount Bracket WV-Q169A</th>
<th>Smoke Dome Cover WV-CW7S</th>
<th>Sun Shade WV-Q7118</th>
<th>Ceiling Mount Bracket WV-Q105A</th>
<th>Ceiling Mount Bracket WV-Q121B</th>
<th>Wall Mount Bracket WV-Q122A</th>
<th>Mount Bracket WV-Q124</th>
</tr>
</thead>
</table>

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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.

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(2A-113FL)