**Panasonic**

**4K Vandal Resistant Dome Network Camera**

**WV-SFV781L**

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**Key Features**

- **4K (3,840 x 2,160) images up to 30 fps, 12M pixel (4,000 x 3,000) images up to 15 fps**
- Newly developed 1/1.7 type high sensitivity MOS image sensor
- **Ultrawide x6 zoom lens** with the newly developed 3-drive lens system (Horizontal Angle: 100.0°(wide) to 17.0°(tele)) [4 : 3 mode]
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording.
- **Smart DoF (Depth of Field):** Automatically optimizes DoF to enhance focus both for near and far objects within camera view.
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- High sensitivity with Day & Night (ICR*) function: 0.3 lx (Color), 0.04 lx (B/W) at F1.6
  * ICR: IR Cut filter Removal
- **Smart IR LED equipped:** The equipped infrared LED makes it possible to take pictures at zero lx. The IR LED is controlled to match the environment, thereby the camera provides clear images of human faces without white blur.
- Camera attachment bracket allows an easy camera installation toward all four directions.
- **VIQS (Variable Image Quality on Specified area)** technology allows the designated eight locations 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.
- **Fog compensation function** equipped as standard.
- **HLC (High Light Compensation) technology** reduces strong light sources such as vehicle headlights to prevent camera being blinded.
- **SCC (Super Chroma Compensation) function** realizes a better color reproducibility even in low illumination.
- Internet mode: H.264 images can be transmitted over HTTP protocol.
- Multi-language: English / Italian / French / German / Spanish / Portuguese / Russian / Chinese / Japanese
- **IPv4/IPv6 protocol supported**
- **Still images (JPEG) can be viewed on mobile phones via Internet.**
- **Onvif compliant model**
- **IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X(JUL50), NEMA 4X compliant.**
- Dehumidification device for use with various weather conditions
- Vandal resistant mechanism for high reliability (IK10)
- **Rain wash coating dome cover**

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**4K (3,840 x 2,160) H.264 Vandal Resistant Dome Network Camera**

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- 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.
- **SDXC/SDHC/SD Memory card slot** 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.
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Specifications

**Camera**

- Image Sensor: 1/2.7 type MOS image sensor
- Effective Pixels: Approx. 1248 x 704
- Scanning Mode: Progressive
- Scanning Area: 7.0 mm x 5.25 mm [9/32 inches H] x 7/32 inches [W]
- Minimum Illumination: Color: 0.3 Lux, BW: 0.04 Lux
- B/W Infrared LED: 0.06 lux (Max. 5 lux) at 3 lux
- Color: 0.3 lux, B/W: 0.05 lux (Max. 16 lux) at 8 lux

**Lens**

- Image tilt adjustment range: –45° (Left) to +30° (Right)
- Vertical: 0 to 85°
- Horizontal: ±180°
- Maximum Aperture Ratio: 1:1.6 (WIDE) - 1:3.3 (TELE)
- Shutter Speed: 4.2 mm - 25.2 mm [5/32 inches – 1 inch]
- Focus Adjustment (Camera Title (OSD)): On / Off, Up to 20 characters (alphanumeric characters, marks)
- Focus Adjustment (Privacy Zone): On / Off, 4 areas available
- Focus Adjustment (Video Motion Detection (VMD)): Off / On / Auto1 (Normal) / Auto2 (IR Light) / Auto3 (SCC)
- Focus Adjustment (Fog compensation): On / Off (only when Wide dynamic range/Adaptive black stretch: Off)
- Frame Rate: 1/1000 s, max. 1/500 s, max. 1/250 s, max. 1/120 s, max. 1/100 s
- Outdoor scene/Indoor scene (50 Hz)/Indoor scene (60 Hz)/Fix shutter:
  - ATW1 (2,700 - 6,000 K)
  - ATW2 (2,000 - 6,000 K)
  - AWC (2,000 - 10,000 K)
- Color: 0.3 lx, BW: 0.04 lx
- Effective Pixels: 7.40 mm (H) x 5.55 mm (V) [9/32 inches (H) x 7/32 inches (V)]
- JPEG(1): Enables the setting of the resolution in the same way as H.264(1)
- Spot, Quad: Image from 16 cameras can be displayed in the browser.
- Brightness, AUX On / Off
- H.264(2): 1,920 x 1,080 / 1,280 x 720 / 640 x 360, up to 30 fps
- H.264(3): 1,280 x 720 / 640 x 360 / 320 x 180, up to 30 fps
- • 4 mega pixel [16:9] (30 fps mode)
- • 8 mega pixel [16:9] (15 fps mode)
- • 12 mega pixel [4:3] (15 fps mode)
- • 6 mega pixel [4:3] (30 fps mode)
- • 4 mega pixel [16:9] (30 fps mode)
- • Cropping [16:9] (30 fps mode)

**Network**

- IP Address: 10.10.1.100 - 10.10.255.254
- HTTP Port: 80,8080,8081
- FTP Port: 21,80,2180
- HTTPS Port: 443,9800
- HD Video Monitoring: 3 terminals input, VMD, Command alarm
- Microphone Input: Line
- Microphone Input: 4.5 mm stereo jack
- Microphone Input: Recommended applicable microphone: Plug-in power type
- Supply voltage: 2.5 V ± 0.5 V
- Recommended sensitivity of microphone: –48 dB ± 3 dB dB (1 V = 1 Pa, 1 kHz)
- For line input: Input level: Approx. –10 dBV
- Audio Output
- Monitor Output: 1x, 2x, 4x controlled by browser GUI
- Reserved 1x, 2x, 4x controlled by browser GUI
- Dimensions: 228 mm x 99 mm (H) x 7/16 inch [H]
- Dome radius 80 mm (3-1/8 inch)
- Dimensions (approx.): When using the attachment plate: a228 mm x 189 mm (H) [8-31/32 inches x 7-7/16 inches (H)]
- Dome radius 80 mm (3-1/8 inch)
- Mass (approx.): When using the attachment plate: Approximately 3.2 kg (7.0 lbs)
- When using the base bracket: Approximately 3.0 kg (6.6 lbs)
- Finish: Aluminum die cast, gray
- Dome section: Clear polycarbonate resin
- Dome cover: Clear polycarbonate resin (Rain washing coating)
- Washer: Vamper-resistant ensures

**Power Consumption**

*1 Converted value
*2 For further information about PC system requirements and precautions for when using Microsoft Windows® 8.1, Microsoft® Windows® 8, Microsoft® Windows® 7, Microsoft® Windows Vista®, or Windows® Internet Explorer, click "Manual" - "Openn" from the supplied CD-ROM and refer to the following website (http://security.panasonic.com/pss/security/support/Info.html)
*3 AATC (Advanced Audio Coding - Low Complexity) is only when recorded audio on an SD card.
*4 For further information about compliant services, refer to our website (http://security.panasonic.com/pss/security/support/info.html) for further information about Power source and Power consumption information.
*5 In order to be able to retrofit the monitor output, '8 mega pixel [16:9] (15fps mode), '8 mega pixel [4:3](30fps mode), or '12 mega pixel [4:3](15fps mode) must be selected for "Image capture mode".
*6 For information about usage limitations, refer to "2.3.1 Configure the E-Mail configuration settings (Basic)" in the "Operating Instructions".
*7 Refer to our website (http://security.panasonic.com/pss/security/support/info.html) for further information about Power source and Power consumption information.
*8 Only when installation work is properly performed according to the instructions in this book and appropriate setting of waterproof treatments is performed.
*9 Component that has a structure on the screws that are accessible after installation cannot be screwed or unscrewed using an ordinary screwdriver.
Part Names and Functions

Appearance

SD memory card slot

Base bracket (accessory)
Attachment plate (accessory)
Cap for the female thread for the conduit
Panning table
Tilting table
Tilt fixing screw
Light-blocking rubber ring
IR LED
Dome cover (Rain wash coating)

Unit : mm (inches)

with Base bracket
ø164 (6-15/32")
91.7 (3-5/8")
189.7 (7-3/16")
160 (6-3/8")

SR80 (3-5/32")
109 (4-9/32")
228 (8-31/32")
199.7 (7-13/32")
165.8 (6-1/2")

without Base bracket
ø154.7 (6-3/32")
89.5 (3-17/32")

Inside the dome cover (with IR LED mounting section opened)

Direction marker for installation (TOP)
• Points up when installing to a wall.

SD1 memory card slot

Data Matrix: To our website  

MONITOR OUT terminal (factory shipment: NTSC monitor)

Screen display (TOP)

Auxiliary wire

Pan table fixing screw

NTSC/PAL switch

INITIAL SET button

SD ON/OFF button

SD MOUNT indicator

SD ERROR/AF indicator

ACT indicator

LINK indicator

Auto focus (AF) button

WIDE button
(moves the camera to the "Wide" side)

SD memory card slot

ø164 (6-15/32")
91.7 (3-5/8")
189.7 (7-3/16")
160 (6-3/8")

SD memory card slot

ø154.7 (6-3/32")
89.5 (3-17/32")

Standard Accessories

• Important Information ........................................... 1 pc.
• Installation Guide .................................................. 1 set.
• CD-ROM*1 .......................................................... 1 pc.
• Code label*2 .......................................................... 1 pc.

The following parts are used during installation procedures.
• Attachment plate .................................................. 1 pc.
• Base bracket ....................................................... 1 pc.
• Fixing screws for attachment plate (M4 x 8 mm) ........ 5 pcs. (of them, 1 for spare)
• Template A (for the attachment plate) ....................... 1 sheet.
• Template B (for the base bracket) ........................... 1 sheet.
• BR Hex wrench, screw size 6.35 mm (1/4 inches) T20 .... 1 pc.
• Waterproof tape ................................................... 1 pc.
• 4P alarm cable ..................................................... 1 pc.
• 2P power cable .................................................... 1 pc.
• LAN connector cover ............................................ 1 pc.
• MONITOR OUT conversion plug*3 ....................... 1 pc.
• Protection cover ................................................... 1 pc.

*1 The CD-ROM contains the operating instructions and different kinds of tool software programs.
*2 This label may be required for network management.
Depending on the scanning application used, the Data Matrix may not be able to be read correctly. In such case, directly enter the following URL.
http://security.panasonic.com/pas/security/support/sp_sp_select.html
*3 This can be used as MONITOR OUT by switching the audio/monitor output cable of the unit using software switching.
Connect the MONITOR OUT conversion plug to the audio/monitor output cable and use it when converting the ø3.5 mm stereo mini jack to the RCA pin jack output.

DISTRIBUTED BY:

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http://security.panasonic.com
http://www.facebook.com/PanasonicNetworkCamera

(2A-139AA)