**Super Dynamic Full HD Weatherproof Network Camera**

**WV-SPW631L**

**Super Dynamic Full HD Weatherproof Long Focus Type Network Camera**

**WV-SPW631LT**

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**Key Features**

- **1080p** Full HD / 720p HD images up to 60 fps*
- Approximate 1/2.8 inches, high sensitivity MOS image sensor
- Super high resolution at Full HD / 1,920 x 1,080 by created high sensitivity MOS Sensor.
- **Multiple H.264 (High profile) streams (max. 4 streams)** and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new enhanced “UniPhier®”, Panasonic’s proprietary System LSI platform.
- Maximum Screen Size is 2,048 x 1,536* @30 fps, H.264
  - * Used by super resolution techniques
- **Enhanced Super Dynamic** and ABS (Adaptive Black Stretch) technologies deliver 133 dB wider dynamic range compared to conventional cameras.
- **Multi process NR & 3D-DNR** ensures noise reduction in various conditions.
- High sensitivity with Day & Night (IR) function:
  - WV-SPW631LT: 0.01 lx (B/W) at F1.3
  - WV-SPW631L: 0.04 lx (Color), 0.01 lx (B/W) at F1.3
- 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.
- **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.
- **Electronic sensitivity enhancement**: Auto (Up to 16/30s) / 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 lighting will be automatically compensated.
  - 3x 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.
- **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.
- **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.
- Face detection function detects the position of human face and the information is sent by XML or video stream. (Extension Software)
- Can be added new intelligent extension software in addition to built-in VMD (Video Motion Detection), alarm function.
- **Fog compensation function** equipped as standard.
- **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
- IPv4/IPv6 protocol supported
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- Onvif compliant model
- IP66 rating of water and dust resistant. Compatible with IEC60529 measurement standard, Type 4X (UL50), NEMA 4X compliant.
- Dehumidification device for use with various weather conditions

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

**Camera**
- Image Sensor: Approx. 1/2.8 type MOS image sensor, Built-in primary color filter
- Effective Pixels: Approx. 4 mega pixels
- Progressive Scan
- Minimum Illumination
  - WV-SPW631L: Color: 0.008 lx (F1.4); 0.002 lx (F1.2); Minimum illumin. Max. 105 lx; Gain: Off (Dig.)
  - WV-SPW631LT: Color: 0.008 lx (F1.4); 0.002 lx (F1.2); Minimum illumin. Max. 105 lx; Gain: Off (Dig.)
- Resolution
  - WV-SPW631L: [4 : 3 mode]: Vertical : 17.4 ° (TELE) ~ 57.3 ° (WIDE)
    - [4 : 3 mode]: Horizontal : 11.5 ° (TELE) ~ 27.4 ° (WIDE)
  - WV-SPW631LT: Vertical : 7.7 °   (TELE) ~ 18.1 °  (WIDE)
    - [4 : 3 mode]: Horizontal : 25.8 ° (TELE) ~ 86.4 °  (WIDE)

**Network**
- Supported Protocol
  - IPv6: TCP, UDP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv4, RTP, M-JPEG
  - IPv4: TCP, UDP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv4, RTP, M-JPEG
- Memory Card (Optional)
  - Manufactured by Panasonic
  - Use the SD memory card that complies with Vol.
- Additional Information
  - WV-SPW631LT: Up to 50,000 logs for each SD memory card

**Dimensions**
- WV-SPW631L: 241(9-1/2") x 226(8-7/8") x 125(4-7/8") [352(13-7/8") x 531(20-1/4") x 152(5-15/16") approx.
- WV-SPW631LT: 226(8-7/8") x 203(7-3/4") x 100(3-15/16") [306(12") x 256(10") x 60(2-3/8") approx.
- WV-SWP631L: 226(8-7/8") x 203(7-3/4") x 100(3-15/16") [306(12") x 256(10") x 60(2-3/8") approx.

**Environmental Conditions**
-Operating Temperature: –40 °C ~ +50 °C (–40 °F ~ 122 °F)
-Operating Humidity: 99% max. (no condensation)
- Water and Dust Resistance: IP66, IP69K (measured standard: Type 4X, IP69K (New standard)
- Dimensions (W x D x H): 199 x 199 x 199 mm (7-5/8" x 7-5/8" x 7-5/8")
- Weight: approx. 1.0 kg (2.2 lbs)

**Power and Consumption**
- PoE Device: 48 V DC / 360 mA / Approx. 12.95 W* (Class 0 device)
- DC Power Supply: 12 V DC / 1080 mA / Approx. 12.9 W

**Certified Values**
- Super Dynamic: *2 Super Dynamic function is automatically set off on 60 fps mode.
- *3 Notes on Windows 8 or Windows 7 or Microsoft® Windows Vista®:
  - For a PC and precautions when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows Vista®.

**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.
- UniPiKer is a registered trademark of Panasonic Corporation.
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**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.