Super Dynamic Full HD Network Camera

WV-SP509
WV-SP508

Key Features

- 1080p Full HD images up to 30 fps and 360p image up to 30fps simultaneously.
- Combining new “UniPhier®”, Panasonic’s proprietary System LSI platform and 2 areas VIQS (Variable Image Quality on Specified area) function can increase maximum 60% network bandwidth.
- Cropping function enables to provide whole image (1,920 x 1,080) and the part image (640 x 360) simultaneously.
- Up to 4 image capture areas can be specified, and it is also possible to control the sequence.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by new “UniPhier®”.
- Super high resolution at Full HD/1,920 x 1,080 created by 3.1Megapixel high sensitivity MOS Sensor.
- 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic Range technology ensures clear face image.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.
- Face Super Dynamic Range technology ensures clear face image.
- High sensitivity with Day & Night (IR) function: 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (WV-SP509)
- High sensitivity with Day & Night (Electrical) function: 0.5 lx (Color), 0.3 lx (B/W) at F1.4 (WV-SP508)
- Using Panasonic distinctive LDC (Lens Distortion Compensation) function, natural image without distortion can be monitored though using wide angle lens.
- ABF (Auto Back Focus) ensures easy installation.
- ABF ensures stable focus in both color and B/W modes. (WV-SP509)
- 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.
- Superior color reproduction by primary (RGB) color filter.
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor scene / Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC / Fixed electronic shutter
- Outdoor scene: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. Indoor scene (50 Hz / 60 Hz): Flicker caused by fluorescent lighting will be automatically compensated.
- ELC: Up to 1/10,000 Electronic shutter is automatically applied for a fix iris lens. Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- 2x extra zoom at VGA resolution
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Face detection function detects the position of human face and the information is sent by video stream.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- 2x, 4x digital zoom controlled by browser
- 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(WV-SP509), 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. (WV-SP509)
- 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) (WV-SP509)
- 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 the Internet.
- Onvif compliant model

*1 Compared with WV-NP502, reduction effect is decreased by object and image quality setting conditions.

Standard Accessories

- Installation Guide .............. 1 pc.
- CD-ROM*1 .................... 1 pc.
- Code label*2 .................. 1 pc.
- The following parts are used during installation procedures.
- Wire lug fixing screws (M2.5 x 8 mm (5/16 inches))
- Washer ....................... 2 pcs. (of them, 1 for spare)
- Spring washer ............... 1 pc.
- Power cord plug ............... 1 pc.
- Safety wire plate for ceiling .... 1 pc.
- Safety wire lug for wall ......... 1 pc.

Optional Accessory

- ALC Lens for 1/3 type CCD Cameras
  2x Varifocal (High Resolution) WV-LZA62/2
  (2.8 ~ 6 mm)
  F1.4 (Wide) F2.1 (Tele)

  * It is impossible to use lenses without the focus adjustment function or zoom lenses.
DISTRIBUTED BY:

- Panasonic cannot be responsible for network performance and/or other manufacturer products that reside on the network.

- Safety Precaution: carefully read the operating instructions and installation manual before using this product.

- UniPhier is a registered trademark of Panasonic Corporation.

### Specifications

#### Camera
- **Image Sensor**: 1/3" MOS Sensor
- **Effective Pixels**: Approx. 31 megapixel
- **Scanning Mode**: Progressive scan
- **Paper Enhancement**: Approx. 3 megapixel

#### Scanning Area
- Minimum Illumination: 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps
- Refresh Interval: 0.2 / 0.25 / 0.33 / 0.5 / 1 / 2 / 3 / 4 / 5 s

#### Resolution
- **Transmission Type**: PULL / PUSH

#### Frame Rate
- **Image Quality**: 10 steps

#### Network
- **Network Interface**: Ethernet: 10Base-T / 100Base-TX, RJ-45 connector
- **System Log**: Error log

#### Audio
- **One Shot Capture**: A still picture will be displayed on a newly opened window.
- **Audio Output**: ON / OFF Volume adjustment: Low / Middle / High   (Only at WV-SP509)

#### Microphone/Line Input
- **Line IN and MIC IN**: 3.5 mm stereo mini jack (open circuit input) (Applicable to WV-SP509 only)

#### Alarm Log
- **With SDXC/SDHC/SD memory card**: 5,000 logs. Can save following alarm logs: Exception, Access permission, Memory card full

#### Alarm
- **Alarm Log**: With SDXC/SDHC/SD memory card*: 5,000 logs. Can save following alarm logs: Exception, Access permission, Memory card full

#### Video Motion Detection
- **Video Motion Detection**: 4 areas, Sensitivity: 15 steps, Detection size: 10 steps

#### Privacy Zone
- **Privacy Zone**: Up to 2 zones, Gray

#### Digital Noise Reduction
- **Digital Noise Reduction**: High / Low

#### Dynamic Range
- **Dynamic Range**: 52 dB typ. (Super Dynamic: ON, Light Control Mode: indoor)

#### Clock Display
- **Clock Display**: Time: 12H/24H, Date: 5 formats on the browser, Summer time (Manual)

#### Display Mode
- **Display Mode**: Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad

#### Image Capture Mode:
- **Image Capture Mode**: 4,096 / 8,192 / 10,240 / 12,288 / 14,336 kbps

#### Frame Rate
- **Frame Rate**: 1 / 3 / 5 / 7.5 / 12 / 15 / 20 / 30 fps

#### Minimum Illumination
- **Minimum Illumination**: 0.03 lx (F1.4, Auto slow shutter: Max. 16/30s, Gain: On (High))

#### Network IF
- **Network IF**: 10Base-T / 100Base-TX, RJ-45 connector

#### Network Interface (IP)
- **Network Interface**: IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, GUI/Setup Menu Language

#### TV System
- **TV System**: NTSC / PAL

#### Memory Card (Option)
- **Memory Card (Option)**: SDXC/SDHC/SD memory card

#### Dimensions
- **Dimensions**: 75 mm (W) x 65 mm (H) x 30 mm (D)

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### Important

- **Safety Precaution**: carefully read the operating instructions and installation manual before using this product.
- **Power Source and Power Consumption**: Plug in power type) Supply voltage: 2.5 V ±0.5 V Input impedance: approx. 2 kΩ

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