HD Network Camera
WV-SP105
Network Camera
WV-SP102

HD/1,280 x 960 H.264 Network Camera with 2x Extra Zoom (WV-SP105)
VGA/640 x 480 H.264 Network Camera (WV-SP102)

Key Features
- 720p HD images up to 30 fps (WV-SP105 only)
- Newly developed 1.3 Megapixel high sensitivity MOS Sensor (WV-SP105)
- Newly developed 0.32 Megapixel high sensitivity MOS Sensor (WV-SP102)
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic’s proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size (WV-SP105)
- Full frame (Up to 30 fps) transmission at VGA (640 x 480) image size (WV-SP102)
- 2x extra zoom at VGA resolution (WV-SP105 only)
- 2x, 4x digital zoom controlled by browser
- ABS (Adaptive Black Stretch) technologies deliver wider dynamic range compared with conventional cameras.
- High sensitivity with Simple Day/Night function:
  - 0.8 lx (Color), 0.4 lx (B/W) at F2.2 (WV-SP105)
  - 2.0 lx (Color), 1.3 lx (B/W) at F2.0 (WV-SP102)
- VIQS (Variable Image Quality on Specified area) technology allows the designated 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.
- 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 (WV-SP105)
  - Auto (Up to 8x) / OFF (WV-SP102)
- Selectable light control modes: Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time)
  - Indoor scene (50 Hz/60Hz): Flicker caused by fluorescent lightning will be automatically compensated.
  - ELC (maximum exposure time): The lightning control will be automatically performed by adjusting shutter speed in the range of ELC.
- VMD (Video Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Meta data for VMD is supplied to work with the WJ-ND400 playback VMD function.
- Privacy Zone can mask up to 2 private areas, such as house windows and entrances/exits.
- Camera title display: Up to 20 alphanumeric characters on the browser, Up to 20 alphanumeric characters embedded in the image
- Alarm sources including VMD and Panasonic alarm command can trigger actions such as FTP image transfer, E-mail notification, Indication on browser, and Panasonic protocol output.
- 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.
- 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 DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model

Standard Accessories
- CD-ROM*1..........................1 pc.
- Installation Guide.................1 pc.
- Code Label*2........................1 pc.
- Power Cord Plug....................1 pc.
- Angle Adjustment Cover..........1 pc.
- Safety Wire........................1 pc.
- Washer..............................1 pc.
- Spring Washer........................1 pc.
- Sticker (over the tripod screw)....1 pc.

The followings are for installation.
- CD-ROM*1 contains the operating instructions (PDF) and different kinds of tool software programs.
- Code Label*2 may be required for network management. The network administrator shall retain the code label.

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Specifications

Camera
- Image Sensor: WV-SP101: 1/3 type MOS Sensor, WV-SP102: 1/5 type MOS Sensor
- Effective Pixels: WV-SP101: Approx. 1.3 megapixel, WV-SP102: Approx. 0.3 megapixel
- Scanning Mode: Progressive scan
- Scanning Area: WV-SP101: 4.8 mm (H) x 3.6 mm (V), WV-SP102: 2.69 mm (H) x 2.02 mm (V)
- Minimum Illumination: WV-SP101: Color: 0.8 lx, B/W: 0.4 lx at F2.2 (Shutter: 1/100 s, AGC: High), Color: 0.05 lx, B/W: 0.03 lx at F2.2 (Shutter: 1/16 s, AGC: High), WV-SP102: Color: 2.0 lx, B/W: 1.3 lx at F2.0 (Shutter: 1/100 s, AGC: High), Color: 0.3 lx, B/W: 0.16 lx at F2.0 (Shutter: 1/100 s, AGC: High)
- White Balance: IRC (2.000 - 10.000 K, ATW (2.700 - 6.000 K), ATW2 (2.000 - 6.000 K)
- Light Control Mode: Indoor [90 lx]: Automatic integration of ELC (up to 1/100 s) (Indoor [80 lx]: Automatic integration of ELC (up to 1/120 s)
- ELC (maximum exposure time): WV-SP101: 1/30, 3/100, 3/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000, WV-SP102: 1/30, 3/100, 3/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
- Adaptive Black Stretch: ON / OFF
- Electronic Sensitivity: WV-SP101: OFF, max. 2/30 s, max. 4/30 s, max. 6/30 s, max. 10/30 s, max. 16/30 s, WV-SP102: OFF, max. 2/30 s, max. 3/30 s, max. 4/30 s, max. 8/30 s
- Digital Noise Reduction: Hi / Lo
- Digital (Electronic) Zoom: WV-SP102: N/A

Lens
- Zoom Ratio: WV-SP101: 2x with extra zoom (at VGA), WV-SP102: N/A
- Focal Length: WV-SP101: 3.54 mm, WV-SP102: 2.00 mm
- Focusing Range: 0.5 m – ∞

Display
- Display Mode: Spot, Quad. Frame from 16 cameras can be displayed in 4 different Quad screens or 16 split screen (JPEG only). 20 characters camera title available.
- Camera Title: Up to 20 alphanumeric characters
- Video Motion Detection: 4 areas, Sensitivity: 15 steps, Detection size: 10 steps
- Privacy Zone: Up to 2 zones, Gray

GUI/Setup Menu
- Camera Title (OSD): Up to 20 alphanumeric characters
- Appearance
- Scene Modes
- Network
- Network Connector
- 12 V DC Power Cord Terminals
- Power Source
- Effective Pixels
- Optimal Resolution
- Image Resolution: WV-SP101: H: 1,280 × 960 / V: 640 × 360 / Q: 320 × 180 up to 30 fps JPEG (MJPEG), WV-SP102: H: 640 × 360 × 320, up to 30 fps JPEG (MJPEG)
- Maximum Aperture Ratio: WV-SP102: 1/5 type MOS Sensor
- Frame Rate: 1 / 3, 1 / 5, 1 / 7, 1 / 9, 1 / 11, 1 / 15, 1 / 20, 30 fps
- Bit Rate: 128, 192, 256, 384, 512, 768, 1,024, 1,536, 2,048, 3,072, 4,096, 8,192 kbps / Unlimited
- Image Quality: LOW / NORMAL / FINE
- Picture Format (Screen Mode)
- Resolution: 0.2 x 0.25 x 0.33 x 0.35 x 0.5 x 1.25 x 2 x 3 x 3.5 / 2 x 4.5 x 3 / 4 / 5
- Temporal Frame Rate: UNICAST / MULTICAST
- Frame Rate: 1 / 30, 1 / 60, 2 / 30, 1 / 25, 1 / 12, 2 / 25, 1 / 30, 2 / 30, 1 / 24, 1 / 15, 1 / 12, 1 / 10, 1 / 6, 1 / 5, 1 / 4, 1 / 3, 1 / 2, 1 / 1, 2 / 1, 2 / 2, 2 / 3, 2 / 4, 2 / 5, 2 / 6, 2 / 7, 2 / 8, 3 / 4, 3 / 5, 3 / 6, 3 / 7, 3 / 8, 4 / 5, 4 / 6, 5 / 6, 5 / 7, 5 / 8, 6 / 7, 6 / 8
- Total Bit Rate: 44 / 128 / 256 / 512 / 768 / 1,024 / 2,048 / 4,096 / 8,192 kbps / Unlimited
- Power Source: 12 V DC: approx. 140 mA,
- Current Consumption: WV-SP102: 2.8 W (IEEE802.3af compliant, Class 2 device)
- Maximum Aperture Ratio: WV-SP101: 1/30, 3/100, 3/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
- Ambient Operating Temperature: 0 °C ~ +40 °C (32 °F ~ 104 °F),
- Humidity: 90 % or less (without condensation)
- Dimensions: 55 mm (W) x 55 mm (H) x 122 mm (D) (2-5/32" (W) x 2-5/32" (H) x 4-13/16" (D))
- Weight: 0.3 kg
- Power Source: DC (5V): approx. 140 mA,
- Maximum Aperture Ratio: WV-SP102: 1/30, 3/100, 3/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000
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