360-degree Super Dynamic Vandal Resistant Network Camera featuring Super Dynamic

Key Features

- 360° monitoring with a wide variety of transmission modes: Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264/VGA)
- 1080p Full HD images up to 30 fps
- Combining enhanced “UniPhier®”, Panasonic’s proprietary System LSI platform and 2 areas VIQS (Variable Image Quality on Specified area) function can decrease maximum 50% network bandwidth.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced “UniPhier®”.
- Smooth PTZ operation without mechanical action
- Built-in distortion correction function
- A fisheye lens control function realizes intelligible screen operation intuitively.
- Smartphone monitoring: Direct camera control from smartphone

Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared to conventional cameras.

- High sensitivity with Day/Night (Electrical) function: 1.5 lx (Color), 1.2 lx (B/W) at F2.4
- Digital Noise Reduction: 3D-DNR ensures noise reduction in various conditions.
- With the Intelligent Resolution technology, 3 areas - outlines, detailed texture areas and soft gradation areas - are automatically detected and optimum signal processes are performed to each area. Apart from the uniform enhancement of sharpness, the innovative technology Intelligent Resolution precisely performs signal processing pixel by pixel in the most effective way for it. As a result, images are naturally clear and crisp suitable for all surveillance applications.
- 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: Indoor scene (50 Hz) / Indoor scene (60 Hz) / ELC (maximum exposure time)
- Indoor scene (50 Hz/60 Hz): Flicker caused by fluorescent lightning (60 Hz) / ELC (maximum exposure time)
- VMD (Motion Detector) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 4 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, Panasonic protocol output, and HTTP notification.

- 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.
- SDXC/SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- 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 Internet.
- Vandal resistant mechanism for high reliability
- Operating temperature: -10 °C ~ +50 °C (14 °F ~ 122 °F)
- Low profile design for discrete installation
- Privacy Mode: The lens unit can be moved and hidden so that images cannot be displayed.

When the Privacy mode is used, a black image is transmitted to protect privacy.

*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 pc.
- Code label* ................................... 1 pc.
- CD-ROM* ...................................... 1 pc.
- Code label* ................................... 1 pc.
- The following is used during installation procedures:
  • Camera attachment........................ 1 pc.
  • Audio cable..................................... 1 pc.
  • Installation template label.............. 1 pc.
  • Power cord plug............................. 1 pc.
  • Cable tie ...................................... 2 pcs. (incl. 1 spare)
  • External I/O terminal plug............. 1 pc.
  • Bit for tamperproof screw .......... 1 pc.

*1 The CD-ROM contains the operating instructions and installation guide (PDF).
*2 This label may be required for network management. The network administrator shall retain the code label.

Optional Accessory

Ceiling Mount Bracket WV-Q105
Specifications

**Camera**

- **Image Sensor**: 1/3-type Progressive Scan CMOS Sensor
- **Effective Pixels**: 600,000
- **Scanning Mode**: Progressive Scan
- **Minimum Illumination**: Color: 0.1Lux (F1.2, Auto slow shutter: Off, 0.5Lux, Gain:Auto) / Black & White: 0.0000001Lux (F1.2, Auto slow shutter: On, Gain:32x)
- **B/W**: 1 lux (F1.2, Auto slow shutter: Off, 0.5Lux, Gain:Auto)
- **Gain**: Auto Gain Control (AGC)
- **White Balance**: Auto AWB, Daylight, Cloudy, Fluorescent, Tungsten, Kelvin temperature

**Browser**

- **Supported Browser**: Internet Explorer 8.0 / 7.0 / 6.0, Mozilla Firefox 3.6 / 3.5.5
- **GUI/Setup Menu Language**: English, Italian, French, German, Spanish, Russian, Chinese, Japanese
- **IP Camera Title (OSD)**: Up to 20 characters (alphanumeric characters, , ., /, @, #), On / Off (only at Super-Dynamic Off)
- **Video Motion Detection**: ON / OFF, 4 areas available
- **Electronic Sensitivity UP**: ON / OFF
- **AGC**: HIGH / LOW
- **Super-Dynamic**: OFF / AUTO
- **Shutter Speed**: Indoor scene (50 Hz / 60 Hz) / ELC
- **Light Control Mode**: Indoor scene (50 Hz / 60 Hz) / ELC
- **White Balance**: AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000 K)

**Network**

- **Transmission Type**: PULL / PUSH
- **Output**: 0.1 fps ~ 30 fps
- **Supported OS**: Level 1 only / Level 2 higher / All users
- **Supported Protocol**: IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTP, FTP, SMTP, DNS, DHCP, SHC/HC, MUX, KMP, ARP
- **FTP**: Image transmission, FTP password transmission

**Memory Card (Option)**

- **SDHC Secure Digital Memory Card**: 8GB, 16GB, 32GB, 64GB
- **SDXC Secure Digital Memory Card**: 8GB, 16GB, 32GB, 64GB

**Part Names and Functions**

- **Built-in Microphone (Output)**: Output impedance: Approx. 600 Ω, Line level
- **Input impedance**: Approx. 2 kΩ
- **Alarm / VMD / Access permission / H.264 recording**: Alarm / VMD / Access permission / H.264 recording
- **Alarm / VMD**: Alarm / VMD / Access permission / H.264 recording
- **SD Memory Card Slot Cover**: Up to 14 users (depends on network conditions)
- **Memory Card Slot**: Up to 14 users (depends on network conditions)
- **Network Connector**: Up to 14 users (depends on network conditions)
- **External I/O Terminals**: UNICAST / MULTICAST
- **Audio Input**: Left / Right
- **Input Impedance**: 20kΩ
- **Compression**: G.726, G.729
- **Audio Quality**: LOW / MED / HI
- **Data Rate**: 1/2 / 3/4 / 5 / 6 / 7 / 8 / 10 / 12 / 15 / 20 / 30 fps
- **Video Stream**: JPEG, 640x480 / 320x240, up to 15 fps
- **Audio Stream**: Up to 2 streams can be individually set in the same compression method

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- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
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- All other trademarks identified herein are the property of their respective owners.

**Important Information**

- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.
- Masses and dimensions are approximate.
- Specifications may be subject to change without notice. Control regulations.

**Translated values**

- "*3 When using IPv6 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® Vista® I referring to "Notes on Windows Vista® / Windows® 7 / Windows® 8" on the provided CD-ROM for further information about system requirements for use of IP and procedures when using Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® Vista® I 1 when using IPv4 for communication, use Microsoft® Windows® 8 or Microsoft® Windows® 7 or Microsoft® Windows® Vista®. I 2 Transmission for 1 streams can be individually set in the same compression method. I 3 When the camera lens is pointed at spot light or other bright lights and light reflecting objects ghost may appear.

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