Super Dynamic Full HD Dome Network Camera

**Key Features**

- High super high resolution at Full HD/1,920 x 1,080 created by 3.1 Megapixel high sensitivity MOS Sensor.
- 1080p Full HD images up to 30 fps and 360p image up to 30fps face simultaneously.
- 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.
- 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.
- Picture in picture function: A cropping image or an alarm image can be added to an image and transmitted.
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by enhanced "UniPhier™".
- 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 F1.3 (WV-SF539).
- High sensitivity with Day & Night (Electrical) function: 0.5 lx (Color), 0.3 lx (B/W) at F1.3 (WV-SF538).
- Using Panasonic distinctive LCD (Lens Distortion Compensation) function, natural image without distortion can be monitored though using wide angle lens.
- AFB (Auto Back Focus) ensures easy installation.
- AFB ensures stable focus in both color and B/W modes (WV-SF539).
- 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)/ 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.
- Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- 3x Extra optical zoom at 360p resolution. (Picture Mode: 2 Mega pixel [16:9])
- 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-SF539), 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-SF539)
- 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-SF539).
- 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.
- 2.8 ~ 10.0 mm, 3.6x Varifocal Auto Iris Lens
- *1 Compared with WV-NF502. Reduction effect may vary depending on object and image quality setting conditions.

**Standard Accessories**

- Installation Guide ........................................ 1 pc.
- CD-ROM* ........................................... 1 pc.
- Code Label* ........................................ 1 pc.
- Installation Template Label .............. 1 pc.
- Cable Tie .......................................... 2 pcs. (incl. 1 spare)

*1 The CD-ROM contains the operating instructions (PDFs) and different kinds of tool software programs.

*2 The label may be required for network management. The network administrator shall retain the code label.

**Optional Accessories**

- Embedded Ceiling Mount Bracket (Steel white) WV-Q174
- Smoke Dome Cover WV-CF5S
- Ceiling Mount Bracket WV-Q105 (PAL only)
### Specifications

**Camera**
- Image sensor: 1/3 type MOS Sensor
- Effective Pixels: Approx. 3.1 megapixel

**Scanning Mode**
- Progressive scan

**Scanning Area**
- 3.38 mm x 3.38 mm (1/3.16 inches x 1/3.16 inches)

**Minimum illumination**
- WV-SF539: 0.03 lx (Color: 0.07 lx) / 0.004 lx (BW: 0.004 lx) at F1.3 with Auto slow shutter (Max. 16/30s, Gain: On (High))

**Light Control Mode**
- Outdoor scene: Automatic integration of ALC
- Indoor scene [50 Hz]: Automatic integration of ALC (up to 1/100 s)

**Shutter Speed**
- Fixed shutter: 1/70, 1/300, 1/1200, 1/2500, 1/10000 s; 1/30000, 1/60000, 1/100000 s only at Super Dynamic ON

**Super Dynamic**
- ON / OFF

**Dynamic Range**
- 64 dB (Super Dynamic: ON)

**SDXC/SDHC/SD H.264 recording**
- Manual REC / Alarm REC (Pre / Post) / Schedule REC

**H.264**
- * Only at WV-SF539

**Lens Distortion Compensation**
- VIQS: Up to 2 zones

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

**Digital Noise Reduction**
- High / Low

**No. of Simultaneous Users**
- Up to 14 users (Depends on network conditions)

**Network**
- **IP Address**
  - By DHCP
  - Static

**Audio Mode**
- * Only at WV-SF539

**Audio Compression**
- * Only at WV-SF539

**Power Source and Power Consumption**
- 100 V AC ±10% (50/60 Hz), 1.5 A max.

**Safety/EMC Standard**
- UL (UL60950-1), FCC (Part15 ClassA), CE, IEC60950-1

**Dimensions**
- ø129.5 mm x 93 mm (H) {ø5-1/8 inches x 3-11/16 inches (H)}
- 8.19 L x 6.14 W x 2.01 H inches

**Power Consumption**
- 2.5 V ±0.5 V

**Mass (approx.)**
- 420 g (0.93 lb)

**Finish**
- Main body: ABS resin, satin white
top panels, bezels: ABS resin, satin white

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