4 x 4K(33MP) iA H.265 Multi-Sensor Camera

Panasonic WV-X8570N captures the highest quality images in even very challenging and dynamic environments. In particular, the camera can capture clear vehicle image in color even at night intersections of low light intensity. And the four repositionable lenses minimize blind spots and flexibly correspond to intersections of various shapes and monitoring areas of cities. Easily set up with a smartphone or tablet device via Wi-Fi connection. *Wi-Fi USB adapter is required.

Intelligent Auto (iA) monitors scene dynamics and motion to adjust key camera settings automatically in real-time reducing distortion such as motion blur on moving objects. Adopting H.265 Smart Coding technology, bandwidth efficiency is intelligently increased for longer recording and less storage. Out of the box, the camera supports full data encryption streaming and is compliant to FIPS 140-2 Level 1 standards to keep your video secured.

Extreme image quality for evidence capturing under challenging conditions
- Four repositionable lenses with easy adjustment include a wide range tilt angle mechanism minimizes blind spots
- Four high image quality 4K image sensors and produce a resolution of 3,840 x 2,160 pixels at up to 15 fps
- Sharp and clear images of fast moving vehicles with Intelligent Auto and ClearSight Coating
- Outstanding low light performance in true color with low noise for night time applications
- Super Dynamic 108dB for backlit situations and shadows on night streets
- Environmental durability : IP66, IK10 and Dehumidification device

Extreme H.265 compression with new Smart Coding
- Reduced the amount of transferred data and less storage space compared to any H.264 based compression techniques
- New self-learning ROI* encoding (Auto VIQS) dynamically detect motion areas to keep vehicles and human in good picture quality while lowering your bandwidth *Region of Interest

Extreme Data Security
- Full encryption SD card edge recording to keep your data safe
- FIPS 140-2 Level 1 compliant
- Full end-to-end system encryption with supported VMS and devices to protect from IP snooping/spoofing and detect data alteration

Key Features
- 4 x 4K(33MP) 3840x2160 15fps
- iA (intelligent Auto)
- Super Dynamic 108dB
- Color night vision (0.008 to 0.12 lx)
- H.265 Smart Coding
- ClearSight Coating
- Wide range tilt angle adjustment mechanism

Industry examples
- Public safety (City / Highway toll / Parking gate)
- Transportation (Airport / Train / Subway)
Combining H.265 compression with Smart Coding technology

In spite of the high resolution of 4 × 4 K, it achieved the bit rate lower than the bit rate of one 4K camera of H.264.

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Bit rate*</th>
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<tbody>
<tr>
<td>WV-X8570N</td>
<td>WV-SPV781L</td>
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*“H.265 with Smart Coding” provides max. 95% reduction in total file size when compared to “H.264 without Smart Coding” but it depends on a scene.

Wide range tilt angle adjustment mechanism

Camera 1, 2, 3

- Vertical (TILT) angle: +30° to +80°
- Horizontal (PAN) angle: 360°
- Azimuth (YAW) angle: ±50°

Camera 4

- Vertical (TILT) angle: -15° to +80°

*The above is the adjustable range of a single camera. The adjustable range of each camera varies according to the positional relationship with other cameras.

Four repositionable lenses enables to monitoring at minimize blind spots

- **270-degree view (Full intersection view)**
  - One multi sensor camera at intersection corner,
  - It enables monitoring with minimized blind spots
  - Enables to monitoring even if bottom view angle

- **360-degree view**
  - One multi-sensor camera enables monitor the park by minimize blind spots

*Note: The images and diagrams are not included in the text.*
Specifications

Camera Image Sensor

- 1/1.8 type CMOS image sensor

- Minimum illumination
  - Exotek: 0.12 lx, BW: 0.05 lx
  - (F1.6, Maximum shutter: Off (1/30s), AGC: 11)
  - Color: 0.008 lx, BW: 0.003 lx

- (F1.6, Maximum shutter: max. 16/30s, AGC: 11) *1

Intelligent Auto

- On / Off

- Maximum shutter
  - Max 1/1000s to Max 16/30s

- Super Dynamic
  - On / Off, the level can be set in the range of 0 to 91

- Dynamic Range
  - 108 dB typ. (Super Dynamic: On, level: 31)

Image Settings

- IVS (ABC), White balance

- Image Compensation
  - Adaptive back stretch, Back light compensation (BLC), High light compensation (HLC), Fog compensation, Digital noise reduction

- Color/BW (CBP)
  - On / Off (Auto) / Normal / Auto2 (IR Light) / Auto3 (SCC)

Video Motion Detection (VMD)

- On / Off (4 areas available)

Privacy Zone

- On / Off (up to 8 zones available)

Upside-down

- On / Off

Camera Title (OSS)

- On / Off, up to 20 characters (alphabetic characters, marks)

Adjusting angle

- Camera 1, 2, 3:
  - Horizontal (PAN) angle: ±30°
  - Vertical (TILT) angle: ±15° to ±80°
  - Azimuth (YAW) angle: ±60°

- Camera 4:
  - Horizontal (PAN) angle: ±30°

- Vertical (TILT) angle: ±15° to ±80°

- Azimuth (YAW) angle: ±60°

- The above is the adjustable range of a single camera.

- The adjustable range of each camera varies according to the positional relationship with other cameras.

Lens

- Zoom Ratio
  - 1.1.6

- Digital/electronic zoom
  - Choose from 3 levels of x1, x2, x4

- Focal length
  - 4.8 mm (316 inches)

- Maximum Aperture Ratio
  - F1.6

- Focus range
  - 3.0 m (9.8 feet) ~ ∞

- Angular field of view
  - Horizontal: 97°, Vertical: 53°

Browser GUI

- Control
  - Brightness, AIX/ OFF

- Setup Menu Language
  - English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese

Network

- Network IF:
  - 10Base-T / 100Base-TX / 1000Base-T / HDMI connector

- Resolution
  - [16:9 mode] Cannot be changed

- Non-DV: 340 x 2160 / 540 x 2160 / 1440 / 1280 x 720 / 640 x 360 / 320 x 180

- H.265
  - Transmission Mode
    - Constant bitrate / WR: Frame rate / Best effort

- H.264
  - Transmission Type
    - Unicast / Multicast

- JPEG Image Quality
  - 10 to 90

- Smart Coding
  - (Group of pictures) control:
    - On (frame rate control) / On (advanced) / On (low) / Off (advanced) / Off (frame rate control) and Off (advanced) are only available with H.265.

- Auto VQOS: On / Off

- Audio Compression
  - G.711 (A-law): 16 kbps / 32 kbps
  - G.722 (A-law): 64 kbps

- AAC-LC
  - 64 kbps / 48 kbps / 128 kbps

- Supported Protocol
  - IPv4: TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
  - IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTCP, RTSP (Server), SMTP, DHCP, DNS, DDNS, NTP, SNMP, LLDP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ

Network

- Maximum concurrent access number
  - Up to 24 users

- Depends on network conditions

- SD/SDHC/SDXC
  - H.265 / H.264 recording

- Memory Card
  - Manual REC / Alarm REC (IPv6/Post) / Schedule REC / Backup upon network failure

- Compatibility
  - SD/SDHC/SDXC card:
    - Panasonic: 2 GB, 4 GB, 8 GB, 16 GB, 32 GB, 64 GB*, 128 GB*, 256 GB* model

- SDHC card, ** SDXC card (except miniSD card and microSD card)

- Mobile terminal Compatibility
  - iOS / iPhone, Android / MTK mobile terminals

Alarm

- Alarm Source
  - 2 terminals input, VMD, alarm command

- Alarm Actions
  - SD/SDHC/SDXC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, Panasonic alarm protocol output

Input/Output

- Audio Input
  - 83.3 mm stereo mini jack (Audio input is monaural)

- Microphone input
  - Recommended applicable microphone: Plug-in power type (Sensitivity of microphone: -48 dB ±3 dB (0 dB=1 V/Pa, 1 kHz)

- Input impedance: Approx. 2 kΩ (unbalanced)

- Supply voltage: ±4.0 V ±0.5 V

- For line input: Input level: Approx. –10 dB

- External I/O Terminals
  - I/O2: (Alarm input 2, Audio input 2, Analog audio input, Auto time adjustment input) (x1), ALARM IN 2 (Alarm input 2 / ALARM OUT) (x1), ALARM IN 3 (Alarm input 3 / ALARM OUT / AUX OUT) (x1)

- Environmental

- Power Source and Power Consumption
  - DC 48 V (265 mA / Approx. 12.85 W) / Class 0 device

- Ambient Operating Temperature
  - –40 °C to +60 °C (–40 °F to +140 °F)

- Ambient Operating Humidity
  - 90% RH (non-condensing)

- Water and Dust Resistance
  - IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant

- Shock Resistance
  - K10 (IEC62262)

- Dimensions

- When using the attachment plate only:
  - 320 mm x 232 mm (H) x 196 (7-23/32 inches) x 120 (4-23/32 inches)
  - Dome radius 80 mm (3-5/32 inches)

- When using the base bracket:
  - 430 mm (9-1/8 inches) x 18.5 (23/32 inches)
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- Mass (approx.)

- When using the attachment plate only
  - 2.6 kg (5.7 lbs)
  - When using the base bracket
  - Approx. 3.3 kg (7.28 lbs)

- Finish

- Main body: Aluminum die cast, Light gray, Black & white input, Stainless steel (Corrosion-resistant treatment)

- Dome cover: Polycarbonate resin (with ClearSight coating, Clear)

- 1. Converted value

- 2. H.265/H.264 can be selected for each stream.

- 3. When recording on audio in an SD memory card, only use AAC-LC (Advanced Audio Coding-Low Complexity).

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Important

- 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.

- Masses and dimensions are approximate.

- Specifications subject to change without notice.

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(3A-206A)