Panasonic
BUSINESS

WV-X8570N

i-PRO EXTREME

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. Cameras out-of-the-box, use an encryption module standardized by FIPS Publication 140-2 for secure video streaming.

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 bandwidth compression with new Panasonic H.265 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
- FIPS140-2 CAVP compliant *Using encryption module standardized by FIPS publication 140-2
- 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)
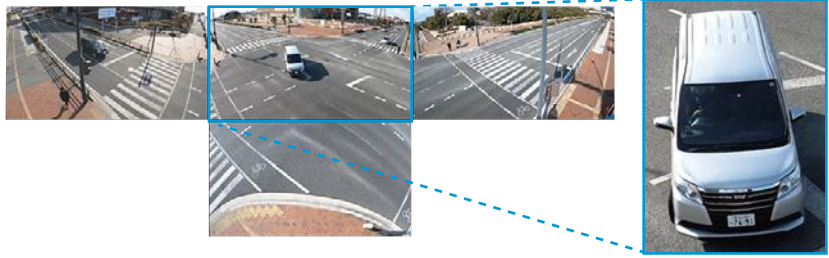- Transportation (Airport / Train / Subway)

with Base Bracket

Onvif® | GST

4 x True 4K high resolution

4K ULTRA HD   *TRUE* **4K**

- Can identify vehicles 100 feet diagonal from intersection corners at three lane streets

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.

Resolution
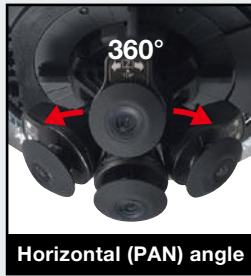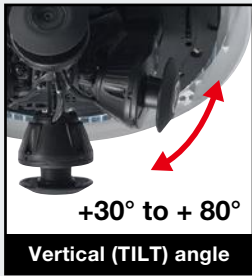
WV-X8570N = WV-SPV781L
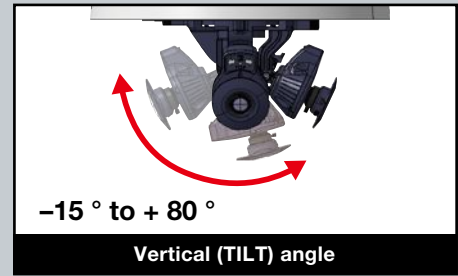
Bit rate*

WV-X8570N < WV-SPV781L

* "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

+30° to + 80°
Vertical (TILT) angle

360°
Horizontal (PAN) angle

±50°
Azimuth (YAW) angle

Camera 4

−15 ° to + 80 °
Vertical (TILT) angle

*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.
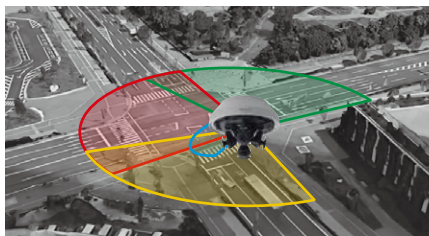
Four repositionable lenses enables to monitoring at minimize blind spots

◉ 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
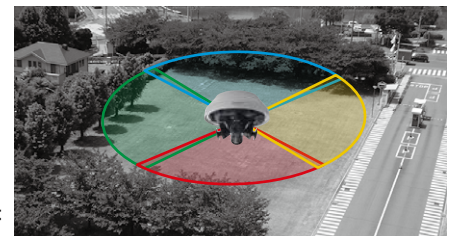
270-degree + right below view angle adjustment

◉ 360-degree view

- One multi-sensor camera enables monitor the park by minimize blind spots

360-degree view angle adjustment

Specifications

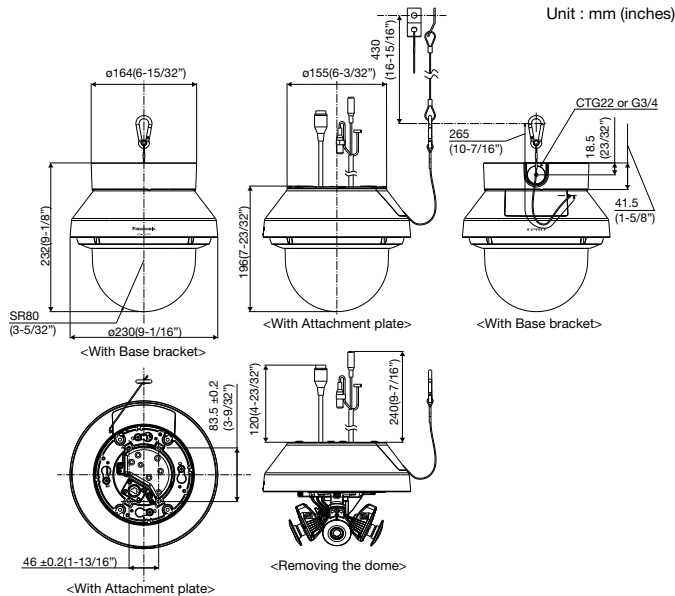| Camera	Image Sensor	1/1.8 type CMOS image sensor
	Minimum Illumination	Color : 0.12 lx, BW : 0.05 lx (F1.6, Maximum shutter : Off (1/30s), AGC : 11) Color : 0.008 lx, BW : 0.003 lx (F1.6, Maximum shutter : max. 16/30s, AGC : 11) *1
	Intelligent Auto	On / Off
	Maximum shutter	Max.1/10000s to Max.16/30s
	Super Dynamic	On / Off, the level can be set in the range of 0 to 31.
	Dynamic Range	108 dB typ. (Super Dynamic : On, level : 31)
	Image Settings	Gain (AGC), White balance
	Image Compensation	Adaptive black stretch, Back light compensation (BLC), High light compensation (HLC), Fog compensation, Digital noise reduction
	Color/BW (ICR)	Off / On / Auto1 (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 (OSD)	On / Off Up to 20 characters (alphanumeric characters, marks)
	Adjusting angle	Camera 1, 2, 3: Horizontal (PAN) angle : 360 ° Vertical (TILT) angle : +30 ° to + 80 ° Azimuth (YAW) angle : ±50 ° Camera 4: Horizontal (PAN) angle : 360 ° Vertical (TILT) angle : −15 ° to + 80 ° Azimuth (YAW) angle : ±50 ° *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 x Optical
	Digital (electronic) zoom	Choose from 3 levels of x1, x2, x4
	Focal length	4.6 mm {3/16 inches}
	Maximum Aperture Ratio	1 : 1.6
	Focus range	3.0 m {9.84 feet} − ∞
	Angular Field of view	Horizontal : 97° Vertical : 53°
Browser GUI	Camera Control	Brightness, AUX On / Off
	Audio	Mic (Line) Input : On / Off Volume adjustment : Low / Middle / High
	GUI / Setup Menu Language	English, Italian, French, German, Spanish, Portuguese, Russian, Chinese, Japanese
Network	Network IF	10Base-T / 100Base-TX / 1000Base-T, RJ45 connector
	Resolution	[16:9 mode*] *Cannot be changed. 3840 x 2160 / 2560 x 1440 / 1280 x 720 / 640 x 360 / 320 x 180
	H.265/ Transmission Mode H.264*2 Transmission Type	Constant bit rate / VBR / Frame rate / Best effort Unicast / Multicast
	JPEG Image Quality	10 steps
	Smart Coding	GOP (Group of pictures) control : On (Frame rate control)* / On (Advanced)* / On (Mid) / On (Low) / Off *On (Frame rate control) and On (Advanced) are only available with H.265. Auto VIQS : On / Off
	Audio Compression	G.726 (ADPCM) : 16 kbps / 32 kbps G.711 : 64 kbps AAC-LC*3 : 64 kbps / 96 kbps / 128 kbps
	Supported Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP (Server), SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP (Server), SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ

Network	Maximum concurrent access number	Up to 24 users (Depends on network conditions)
	SDXC/SDHC/SD Memory Card	H.265 / H.264 recording : Manual REC / Alarm REC (Pre/Post) / Schedule REC / Backup upon network failure Compatible SDXC/SDHC/SD 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	iPad / iPhone, Android™ mobile terminals
Alarm	Alarm Source	3 terminals input, VMD alarm, Command alarm
	Alarm Actions	SDXC/SDHC/SD memory recording, E-mail notification, HTTP alarm notification, Indication on browser, Panasonic alarm protocol output
Input/ Output	Audio Input	ø3.5 mm stereo mini jack (Audio input is monaural)
	For 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 k (unbalanced) Supply voltage : 4.0 V ±0.5 V
	For line input :	Input level : Approx. −10 dBV
	External I/O Terminals	ALARM IN 1(Alarm input 1/ Black & white 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)
General	Safety	UL (UL60950-1), c-UL (CSA C22.2 No.60950-1), CE, IEC60950-1
	EMC	FCC (Part15 ClassA), ICES003 ClassA, EN55032 ClassB, EN55024
	Power Source and Power Consumption	PoE (IEEE802.3af compliant) Device : DC 48 V 265 mA/Approx. 12.95 W (Class 0 device)
	Ambient Operating Temperature	−40 °C to +60 °C {−40 °F to +140 °F} {Power On range : −20 °C to +60 °C (−4 °F to +140 °F)}
	Ambient Operating Humidity	10 to 100 % (no condensation)
	Water and Dust Resistance	IP66 (IEC60529), Type 4X (UL50), NEMA 4X compliant
	Shock Resistance	IK10 (IEC62262)
	Dimensions	**When using the attachment plate only :** ø230 mm x 196 mm (H) {ø9-1/16 inches x 7-23/32 inches (H)}, Dome radius 80 mm {3-5/32 inches} **When using the base bracket :** ø230 mm x 232 mm (H) {ø9-1/16 inches x 9-1/8 inches (H)}, Dome radius 80 mm {3-5/32 inches}
	Mass (approx.)	**When using the attachment plate only :** Approx. 2.8 kg {6.17 lbs} **When using the base bracket :** Approx. 3.3 kg {7.28 lbs}
	Finish	Main body : Aluminum die cast, Light gray, Outer fixing screws : 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 audio on an SD memory card, only use AAC-LC (Advanced Audio Coding-Low Complexity).

Appearance

Unit : mm (inches)

ø164(6-15/32")
ø155(6-3/32")
CTG22 or G3/4
430 (16-15/16")
265 (10-7/16")
18.5 (23/32")
41.5 (1-5/8")
232(9-1/8")
196(7-23/32")
SR80 (3-5/32")
ø230(9-1/16")
<With Base bracket>
<With Attachment plate>
<With Base bracket>
83.5 ±0.2 (3-9/32")
120(4-23/32")
240(9-7/16")
46 ±0.2(1-13/16")
<With Attachment plate>
<Removing the dome>

Optional Accessories

■ Mount Bracket

Wall Mount Bracket **WV-Q185** (Light gray) Different Color Model WV-Q122A (Fine silver) (Use with the WV-Q187.)	Mount Bracket **WV-Q187** (Light gray) (These brackets are used with WV-Q185 or WV-Q122A.)
Pole Mount Bracket **WV-Q182** (Light gray) Different Color Model WV-Q188 (Fine silver) (These brackets are used with WV-Q185 or WV-Q122A.)	Corner Mount Bracket **WV-Q183** (Light gray) Different Color Model WV-Q189 (Fine silver) (These brackets are used with WV-Q185 or WV-Q122A.)

• The brackets are available in two colors, Light gray and Fine silver.
  It is possible to use them in the different color combination.

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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 are subject to change without notice.

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