



Network

Купольные

## XNV-9083RZ

8MP AI IR Vandal Dome Camera



### Key Features

- 8MP resolution
- 4.4~9.3mm (2.1x) motorized varifocal
- Color: 0.04 Lux (F1.3, 1/30sec, 30IRE), 0 Lux (IR LED on)
- Maximum 30 fps (H.265/H.264)
- IR viewable length: 15m (49.21ft), 30m(98.43ft) based on scene
- Day & Night (ICR), extremeWDR (120 dB)
- Hard-coated dome bubble.
- WiseNR II (Based on AI engine), WiseStreamIII (Based on AI engine)
- Analytics events based on AI engine (NPU) : Object detection (Person/Face/Vehicle - car, truck, bus, bicycle, motorcycle/License plate), IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion)
- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Appear/Disappear
- IP66/IP67/IP6K9K, NEMA4X, IK10+

### Compatible Devices



SBP-180HWM1



SBV-180BW



SBV-180WW



SBP-150CMI



SBP-300CMI



SBP-300CMW1



SBP-900CMW



SBP-300CMTW



SBP-300CMTS



SBP-300WMW



SBP-300WMW1



SBP-390WMW2



SBD-180PMW



SBP-300PMW2



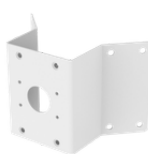
SHD-1370FPW



SBP-300LMW



SBP-156LMW1



SBP-300KMW1



SBP-300NBW



SPB-VAN89W



SPM-4210

# XNV-9083RZ

8MP AI IR Vandal Dome Camera



## Specifications

| Video                   |                       |                                                                                                                                                                                     |
|-------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device          | Size                  | 1/1.8"                                                                                                                                                                              |
|                         | Type                  | CMOS                                                                                                                                                                                |
| Resolution              |                       | 3840x2160, 3328x1872, 3072x1728, 2688x1520, 2592x1944, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate          | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                                                                                                                              |
|                         | MJPEG                 | 30fps(@8MP Max. 5fps)                                                                                                                                                               |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.03                                                                                                                                                                                |
|                         | BW(1/30sec, 30IRE)    | 0.003                                                                                                                                                                               |

| Lens                          |            |                      |
|-------------------------------|------------|----------------------|
| Focal Length (mm)             |            | 4.4~9.3              |
| Zoom Ratio                    | Optical    | 2.1x                 |
| Max Aperture Ratio (F number) | Wide       | 1.3                  |
|                               | Tele       | 2.15                 |
| Angular Field of View         | Horizontal | 113°~47°             |
|                               | Vertical   | 58°~26°              |
|                               | Diagonal   | 138°~54°             |
| Min. Object Distance          |            | 0.5m(1.64ft)         |
| Focus Control                 |            | Simple focus, Manual |
| Lens Type                     |            | P iris(IR corrected) |

| Pan / Tilt / Rotate       |        |                                   |
|---------------------------|--------|-----------------------------------|
| Pan / Tilt / Rotate Range | Pan    | 0°~350°                           |
|                           | Tilt   | 0°~85°                            |
|                           | Rotate | 0°~340°                           |
|                           | Others | Remote adjustment(Max. 200cycles) |

| Operational            |  |                     |
|------------------------|--|---------------------|
| Day & Night            |  | Auto(ICR)           |
| Backlight Compensation |  | BLC, HLC, WDR, SSDR |

## Operational

|                                          |                |                                                                                                                                                                                                                                                              |
|------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wide Dynamic Range (dB)                  |                | 120                                                                                                                                                                                                                                                          |
| Digital Noise Reduction                  |                | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                                                       |
| Digital Image Stabilization              |                | Support                                                                                                                                                                                                                                                      |
| Defog                                    |                | Support                                                                                                                                                                                                                                                      |
| Motion Detection                         | Quantity       | 8ea                                                                                                                                                                                                                                                          |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                                                                                                                       |
| Privacy Masking                          | Quantity       | 32ea                                                                                                                                                                                                                                                         |
|                                          | Shape          | 4point Quadrangle zones                                                                                                                                                                                                                                      |
|                                          | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic                                                                                                                                                                                                                 |
| Gain Control                             |                | Off, Max gain, Manual                                                                                                                                                                                                                                        |
| White Balance                            |                | ATW, NarrowATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                                                                 |
| LDC                                      |                | Support(Fill/stretch mode)                                                                                                                                                                                                                                   |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                                                                   |
|                                          | Speed Range    | 2~1/12,000sec                                                                                                                                                                                                                                                |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                                                         |
| Alarm Interface                          | Others         | Support alarm I/O via optional I/O box                                                                                                                                                                                                                       |
| Alarm Triggers                           |                | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription                                                                                                                                                                      |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP/SFTP,<br>File upload(video clip): FTP/SFTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers.Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,<br>MQTT: publication |
| Audio In                                 |                | Support via optional I/O box                                                                                                                                                                                                                                 |
| Audio Out                                |                | Support via optional I/O box                                                                                                                                                                                                                                 |
| Light Type                               |                | IR LED                                                                                                                                                                                                                                                       |
| Light Viewable Length                    | IR             | 15m(49.21ft), 30m(98.43ft) wall installation scenario                                                                                                                                                                                                        |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                                                                        |

## Analytics

|                        |                    |                                                                                                                                     |
|------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Classified Object Type |                    | Person, Face, Vehicle, License plate                                                                                                |
| Attributes             | Vehicle            | Type(car, bus, truck, motorcycle, bicycle)                                                                                          |
| Thumbnail              |                    | DetectionShot                                                                                                                       |
| Analytics Events       | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection                  |
|                        | Normal             | Defocus detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) |
| Business Intelligence  | Based on AI Engine | People counting, Vehicle counting                                                                                                   |

## Network

|                                   |                    |                                                                                                                                                                                                                             |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | Metal shielded RJ-45(10/100/1000BASE-T)                                                                                                                                                                                     |
| Video Compression                 |                    | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                      |
| Smart Codec                       |                    | Manual, WiseStreamIII                                                                                                                                                                                                       |
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR, MJPEG: VBR                                                                                                                                                                                         |
| Streaming                         | Unicast            | Up to 20 users                                                                                                                                                                                                              |
|                                   | Multicast          | Support                                                                                                                                                                                                                     |
|                                   | Multiple Streaming | Up to 10 profiles                                                                                                                                                                                                           |
| Protocol                          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF              | S, G, T, M                                                                                                                                                                                                                  |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                               |
| Direct Cloud Connection           |                    | Support                                                                                                                                                                                                                     |

## Security

|                        |  |                                                                                                       |
|------------------------|--|-------------------------------------------------------------------------------------------------------|
| OS / Firmware Protect  |  | Encrypted firmware, Secure boot, Signed firmware                                                      |
| User authentication    |  | Digest authentication, Prevent brute-force attack                                                     |
| Network authentication |  | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)                                                    |
| Secure Communication   |  | HTTPS, WSS(WebSocket Secure), SRTP                                                                    |
| Access Control         |  | IP-based access control                                                                               |
| Data Protect           |  | Encryption credentials, Encrypt compress for live recording file export                               |
| Audit                  |  | Access / System / Event Log management                                                                |
| Device ID              |  | Device certificate(Hanwha Vision Root CA)                                                             |
| Secure Storage         |  | TPM(Trusted platform module), HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256) |
| Security Certificate   |  | TPM 2.0 with FIPS 140-2 level2                                                                        |

## General

|                       |                    |                                                                                                                                    |
|-----------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Memory                | RAM                | 4GB                                                                                                                                |
|                       | Flash              | 512MB                                                                                                                              |
| Edge Storage          | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB)                                                                                                      |
| Edge Storage(OnCloud) | Micro SD/SDHC/SDXC | Max. 1TB x 2slots (Total 2TB) *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording. |

## Environmental & Electrical

|                     |             |                                                                        |
|---------------------|-------------|------------------------------------------------------------------------|
| Operating Condition | Temperature | -50°C~+55°C(-58°F~+131°F)                                              |
|                     | Humidity    | 0~100% RH(condensing)                                                  |
|                     | Others      | Start up should be done at above -30°C, Humidity control with AIR vent |

## Environmental & Electrical

|                   |             |                           |
|-------------------|-------------|---------------------------|
| Storage Condition | Temperature | -50°C~+60°C(-58°F~+140°F) |
|                   | Humidity    | 0~90% RH(non-condensing)  |
| Input Voltage     |             | PoE+(IEEE802.3at, Class4) |
| Power Consumption | PoE         | Max. 22.5W, typical 12.1W |

## Mechanical

|                         |                                    |
|-------------------------|------------------------------------|
| Color                   | White                              |
| Material                | Aluminum, Hard-coated dome         |
| RAL Code                | RAL9003                            |
| Product Dimensions      | ø180x135mm(7.09x5.31")             |
| Product Weight          | 2,000g(4.41lb)                     |
| Compatible Conduit Hole | 19.1mm(3/4")(M25)                  |
| Compatible Gang Box     | Single, Double, 4" Octagon, Square |

## Certifications & Standards

|             |                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | EN 50121-4, FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, VCCI CISPR 32 Class A, RCM AS-NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471                                                                                                                                                                     |
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, ISO 20653 IP6K9K, IEC 62262 IK10+, NEMA 250 type 4X                                                                                                                    |

## DORI (EN62676-4 standard)

|                           |      |                  |
|---------------------------|------|------------------|
| Detect (25PPM/ 8PPF)      | Wide | 50.8m(166.77ft)  |
|                           | Tele | 176.6m(579.49ft) |
| Observe (63PPM/ 19PPF)    | Wide | 20.3m(66.71ft)   |
|                           | Tele | 70.7m(231.80ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 10.2m(33.35ft)   |
|                           | Tele | 35.3m(115.90ft)  |
| Identify (250PPM/ 76PPF)  | Wide | 5.1m(16.68ft)    |
|                           | Tele | 17.7m(57.95ft)   |

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CAD

Unit: mm [inch]

