



Network

Dome

## XNV-C9083R

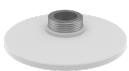
4K AI IR Vandal Dome Camera



### Key Features

- 4K 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)
- WiseIR: IR viewable length 40 m (131.23 ft)
- 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, NEMA4X, IK10

### Compatible Accessories (Optional)



SBP-167HMW

# XNV-C9083R

4K AI IR Vandal Dome Camera



## Specifications

|                             |   |
|-----------------------------|---|
| Video                       |   |
| Imaging Device              | 1/1.8" progressive CMOS   |
| Resolution                  | 3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate              | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 15fps/12fps(60Hz/50Hz)  |
| Min. Illumination           | Color: 0.04Lux(F1.3, 1/30sec, 30IRE)<br>BW: 0.004Lux(F1.3, 1/30sec, 30IRE), 0Lux(IR LED on)   |
| Video Out                   | USB: Micro USB Type B, 1280x720 for installation  |
| Lens                        |   |
| Focal Length (Zoom Ratio)   | 4.4~9.3mm(2.1x) motorized varifocal   |
| Max. Aperture Ratio         | F1.3(Wide) ~ F2.15(Tele)  |
| Angular Field of View       | H : 112.1°(Wide)~47.5°(Tele)<br>V : 58.0°(Wide)~26.6°(Tele)<br>D : 137.5°(Wide)~54.6°(Tele)   |
| 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   | 0°~360° / -45°~75° / 0°~355°  |
| Operational                 |   |
| Camera Title                | Displayed up to 85 characters   |
| Day & Night                 | Auto(ICR)   |
| Backlight Compensation      | BLC, HLC, WDR, SSSDR  |
| Wide Dynamic Range          | extremeWDR (120dB)  |
| Digital Noise Reduction     | WiseNR II (Based on AI engine), SSNR V  |
| Digital Image Stabilization | Support(built-in gyro sensor)   |
| Defog                       | Support   |
| Motion Detection            | 8ea, 8point Polygonal zones   |
| Privacy Masking             | 32ea, 4point Quadrangle zones<br>- Color : Gray, Green, Red, Blue, Black, White<br>- Mosaic   |
| Gain Control                | Off / Max Gain / Manual   |
| White Balance               | ATW / Narrow ATW / AWC / Manual / Indoor / Outdoor  |
| LDC                         | Support (Fill/stretch mode)   |
| Electronic Shutter Speed    | Minimum / Maximum / Anti flicker (2~1/12,000sec)<br>prefer shutter control(Based on AI engine)  |
| Video Rotation              | Flip, Mirror, Hallway view(90°/270°)  |

|                                       |  |
|---------------------------------------|--|
| Analytics                             | Classified object type : Person/Face/Vehicle/License plate<br>Attributes : Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Support DetectionShot<br>Analytics events based on AI engine<br>- Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit)<br>Analytics events<br>- Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) |
| Business Intelligence                 | Based on AI engine : People counting, Queue management, Heatmap  |
| Alarm I/O                             | 2 configurable I/O ports   |
| Alarm Triggers                        | Analytics, Network disconnect, Alarm input, App event, Time schedule   |
| Alarm Events                          | When alarm trigger occurred<br>- File upload(image) : e-mail/FTP<br>- Notification : e-mail<br>- Recording : SD/SDHC/SDXC or NAS recording at event triggers<br>- Alarm output<br>- Handover(PTZ preset, Send message by HTTP/HTTPS/TCP)<br>- Audio clip playback  |
| Audio In                              | Selectable(mic in/line in)<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm   |
| Audio Out                             | Line out, Max.output level: 1Vrms  |
| IR Viewable Length                    | WiseIR 40m(131.23ft)   |
| <b>Network</b>                        |  |
| Ethernet                              | Metal shielded RJ-45(10/100BASE-T)   |
| Video Compression                     | H.265/H.264: Main/High, MJPEG  |
| Audio Compression                     | G.711 u-law /G.726 Selectable<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz   |
| Smart Codec                           | Manual(5ea area), WiseStream II , WiseStreamIII(Based on AI engine)  |
| Bitrate Control                       | H.264/H.265: CBR or VBR<br>MJPEG: VBR  |
| Streaming                             | Unicast(20 users) / Multicast<br>Multiple streaming(Up to 10 profiles, 3 virtual channel support)  |
| Protocol                              | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast)   |
| Security                              | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)<br>Device Certificate(Hanwha Techwin Root CA, pre-installed)<br>Secure by default certificate<br>HTPM (Hanwha Trusted platform module)<br>Secure OS/Boot/Storage, Verify firmware forgery<br>CyberSecurity assurance program UL CAP (UL 2900-1)   |
| Application Programming Interface     | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform   |
| <b>General</b>                        |  |
| Webpage Language                      | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian   |
| Edge Storage                          | Micro SD/SDHC/SDXC 1slot 512GB   |
| Memory                                | 4GB RAM, 512MB Flash   |
| <b>Environmental &amp; Electrical</b> |  |
| Operating Temperature / Humidity      | -40°C~+55°C(-40°F ~ +131°F)<br>* Start up should be done at above -20°C<br>0~95%RH(non-condensing)<br>Humidity control /w GORE vent  |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com)

Hanwha Vision is formerly known as Hanwha Techwin.

|                                |   |
|--------------------------------|---|
| Storage Temperature / Humidity | -50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH                 |
| Certification                  | IP66/IP67, NEMA4X, IK10   |
| Input Voltage                  | PoE(IEEE802.3af, Class3), 12VDC                                   |
| Power Consumption              | PoE: Max 12.95W, typical 11.2W<br>12VDC: Max 13.2W, typical 10.8W |

## Mechanical

|                                   |   |
|-----------------------------------|---|
| Color / Material                  | White / Aluminum<br>Hard-coated dome bubble         |
| RAL Code                          | RAL9003   |
| Product Dimensions / Weight       | Ø160x118mm(Ø6.30x4.65"), 1450g(3.20 lb)             |
| Compatible Conduit hole / Gangbox | 1/2" (M20)<br>single, double, 4" octagon, 4" square |
| Hanging Mount (Dome)              | SBP-167HMW  |

## Certifications & Standards

|             |  |
|-------------|--|
| EMC         | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A<br>KS C 9832 Class A, KS C 9835 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC/EN 62471  |
| Environment | IEC/EN 63000<br>IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10<br>NEMA 250 type 4X  |

## DORI (EN62676-4 standard)

|                           |  |
|---------------------------|--|
| Detect (25PPM/ 8PPF)      | Wide: 51.7m(169.64ft) / Tele: 174.5m(572.64ft) |
| Observe (63PPM/ 19PPF)    | Wide: 20.7m(67.85ft) / Tele: 69.8m(229.06ft)   |
| Recognize (125PPM/ 38PPF) | Wide: 10.3m(33.93ft) / Tele: 34.9m(114.53ft)   |
| Identify (250PPM/ 76PPF)  | Wide: 5.2m(16.96ft) / Tele: 17.5m(57.26ft)     |