

# XNV-C8083R

6MP AI IR Vandal Dome Camera



## Key Features

- 6MP 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)
- WiselR: 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

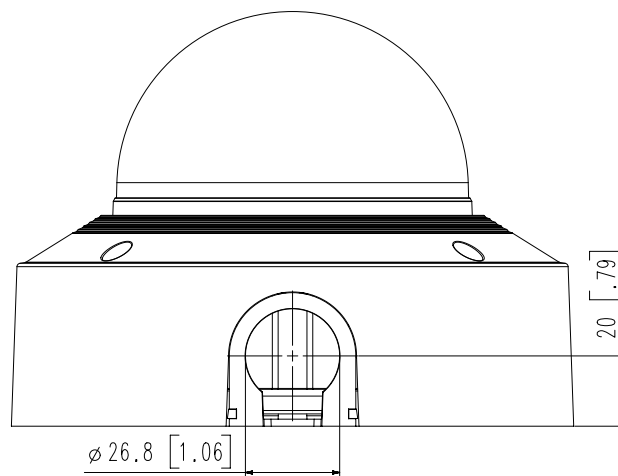
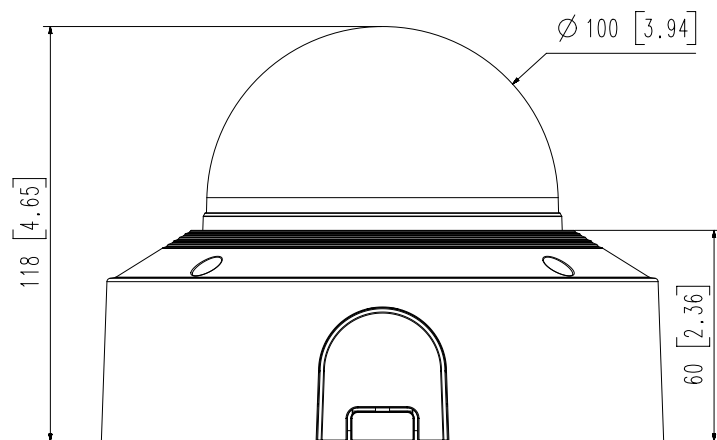
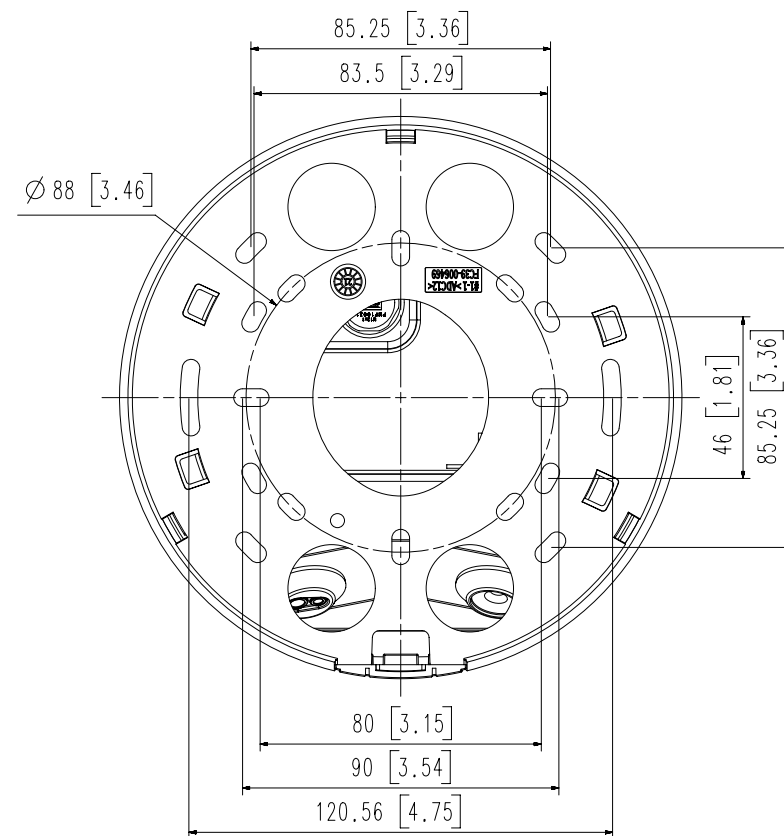
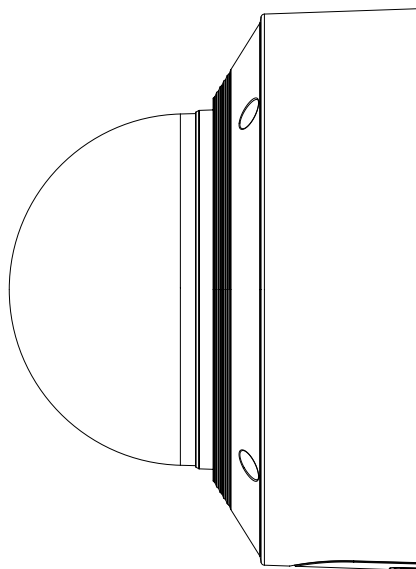
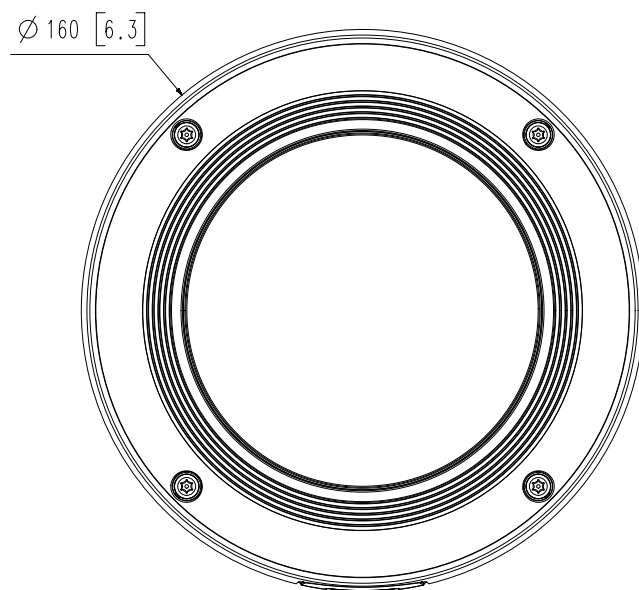
| Video                       |                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device              | 1/1.8" progressive CMOS                                                                                                                                                  |
| Resolution                  | 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>B/W : 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, SSDR                                                                                                                                                      |
| 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, Quadrangle zones<br>- Color : Gray, Green, Red, Blue, Black, White<br>- Mosaic                                                                                     |
| Gain Control                | Support                                                                                                                                                                  |
| 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                         | <ul style="list-style-type: none"> <li>- Analytics events based on AI engine : Object detection (Person/Face/Vehicle(car/bus/truck/motorcycle/bicycle)/License plate), IVA (Virtual line/Area, Enter/Exit, Loitering, direction, Appear/Disappear, intrusion)</li> <li>- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection</li> </ul> |
| 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 <ul style="list-style-type: none"> <li>- File upload(image) : e-mail/FTP</li> <li>- Notification : e-mail</li> <li>- Recording : SD/SDHC/SDXC or NAS recording at event triggers</li> <li>- Alarm output</li> <li>- Handover(PTZ preset, Send message by HTTP/HTTPS/TCP)</li> <li>- Audio clip playback</li> </ul>                                                                               |
| 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                                                                                                                                                                                                                                                                                                                                                             |

## General

|                                       |                                                                                                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>* Maximum temperature : +60°C (intermittent)<br>* Start up should be done at above -20°C<br>NEMA TS-2 : 74°C<br>0~95%RH(non-condensing)<br>Humidity control /w GORE vent |
| 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                                                                                                                                       |
| <b>Mechanical</b>                     |                                                                                                                                                                                                         |
| 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                                                                                                                                                     |
| <b>DORI (EN62676-4 standard)</b>      |                                                                                                                                                                                                         |
| Detect (25PPM/ 8PPF)                  | Wide: 44.8m(147.02ft) / Tele: 151.3m(496.29ft)                                                                                                                                                          |
| Observe (63PPM/ 19PPF)                | Wide: 17.9m(58.81ft) / Tele: 60.5m(198.52ft)                                                                                                                                                            |
| Recognize (125PPM/ 38PPF)             | Wide: 9.0m(29.4ft) / Tele: 30.3m(99.26ft)                                                                                                                                                               |
| Identify (250PPM/ 76PPF)              | Wide: 4.5m(14.7ft) / Tele: 15.1m(49.63ft)                                                                                                                                                               |

- The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.



| 4                       | XNV-C6083R | '21.01.05      |
|-------------------------|------------|----------------|
| 3                       | XNV-C7083R | '21.01.05      |
| 2                       | XNV-C8083R | '21.01.05      |
| 1                       | XNV-C9083R | '21.01.05      |
| No.                     | MODEL NAME | DATE           |
| Unit:mm[inch] SCALE:1/1 |            | Hanwha Techwin |