



Network

Bullet

# XNO-9082R

4K IR Bullet Camera



## Key Features

- 8MP Image Resolution
- 2.8~8.4mm Focal Length
- 40m IR Length
- IP66, IP67, IK10 Rated
- 2.8~8.4mm Focal Length
- IR Length 40m
- DIS Built-in Gyro
- Sound Classification
- Dual SD slots (Max. 1TB)
- PoE support

## XNO-9082R

4K IR Bullet Camera



### Specifications

| Video                         |                       |                                                                                                                                                                                     |
|-------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | 1/2.8"                                                                                                                                                                              |
|                               | 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) | 0.05                                                                                                                                                                                |
|                               | BW(1/30sec, 30IRE)    | 0.005                                                                                                                                                                               |
| Video Out                     |                       | CVBS: 1.0 Vp-p / 75Ω composite for installation,<br>USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.                                                     |
| Lens                          |                       |                                                                                                                                                                                     |
| Focal Length (mm)             |                       | 2.8~8.4                                                                                                                                                                             |
| Zoom Ratio                    | Optical               | 3x                                                                                                                                                                                  |
| Max Aperture Ratio (F number) | Wide                  | 1.2                                                                                                                                                                                 |
|                               | Tele                  | 2.8                                                                                                                                                                                 |
| Angular Field of View         | Horizontal            | 114°~40°                                                                                                                                                                            |
|                               | Vertical              | 62°~22°                                                                                                                                                                             |
|                               | Diagonal              | 133°~46°                                                                                                                                                                            |
| Min. Object Distance          |                       | 0.7m(2.23ft)                                                                                                                                                                        |
| Focus Control                 |                       | Simple focus                                                                                                                                                                        |
| Lens Type                     |                       | DC auto iris(IR corrected), P iris(IR corrected)                                                                                                                                    |
| Pan / Tilt / Rotate           |                       |                                                                                                                                                                                     |
| Pan / Tilt / Rotate Range     | Pan                   | 0°~360°                                                                                                                                                                             |
|                               | Tilt                  | 0°~100°                                                                                                                                                                             |
|                               | Rotate                | 0°~360°                                                                                                                                                                             |
| Operational                   |                       |                                                                                                                                                                                     |
| Day & Night                   |                       | Auto(ICR)                                                                                                                                                                           |

## Operational

|                                          |                |                                                                                                                                                                                                                                                                                  |
|------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Backlight Compensation                   |                | BLC, HLC, WDR, SSDR                                                                                                                                                                                                                                                              |
| Wide Dynamic Range (dB)                  |                | 120                                                                                                                                                                                                                                                                              |
| Digital Noise Reduction                  |                | SSNR V                                                                                                                                                                                                                                                                           |
| Digital Image Stabilization              |                | Support(built-in gyro sensor)                                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                           |
|                                          | Speed Range    | 2~1/12,000sec                                                                                                                                                                                                                                                                    |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                                                                             |
| Alarm Interface                          | In/Out         | 2 configurable I/O ports                                                                                                                                                                                                                                                         |
| 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,Audio clip playback,<br>MQTT: publication |
| Audio In                                 |                | Selectable(mic in/line in)                                                                                                                                                                                                                                                       |
| Audio Out                                |                | Line out                                                                                                                                                                                                                                                                         |
| Light Type                               |                | IR LED                                                                                                                                                                                                                                                                           |
| Light Viewable Length                    | IR             | WiseIR 40m(131.23ft)                                                                                                                                                                                                                                                             |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                                                                                            |

## Analytics

|                       |        |                                                                                                                                                                                                                                                                              |
|-----------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics Events      | Normal | Defocus detection, Motion detection, Tampering, Fog detection, Face/upper body detection, Audio detection, Sound classification, Shock detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) , Digital auto tracking |
| Business Intelligence | Normal | People counting, Queue management, Heatmap                                                                                                                                                                                                                                   |

## Network

|                   |                                         |
|-------------------|-----------------------------------------|
| Ethernet          | Metal shielded RJ-45(10/100/1000BASE-T) |
| Video Compression | H.265/H.264: Main/Baseline/High, MJPEG  |

## Network

|                                   |                    |                                                                                                                                                                                                                                     |
|-----------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio Compression                 |                    | G.711 u-law / G.726 selectable, G.726(ADPCM) 8kHz, G.711 8kHz,<br>G.726: 16kbps, 24kbps, 32kbps, 40kbps,<br>AAC-LC: 48kbps at 16kHz                                                                                                 |
| Smart Codec                       |                    | Manual, WiseStream II                                                                                                                                                                                                               |
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR,<br>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,<br>SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS,<br>DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF              | S, G, T                                                                                                                                                                                                                             |
|                                   | 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         |  | HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256) |
| Security Certificate   |  | CyberSecurity assurance program UL CAP(UL 2900-2-3 L2)                  |

## 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~+60°C(-58°F~+140°F)              |
|                     | Humidity    | 0~95% RH(non-condensing)               |
|                     | Others      | Start up should be done at above -30°C |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F)              |
|                     | Humidity    | 0~90% RH(non-condensing)               |

## Environmental & Electrical

|                   |       |                                        |
|-------------------|-------|----------------------------------------|
| Input Voltage     |       | PoE(IEEE802.3af, Class3), 12VDC, 24VAC |
| Power Consumption | PoE   | Max. 12.95W, typical 10.5W             |
|                   | 12VDC | Max. 12.5W, typical 9.4W               |
|                   | 24VAC | Max. 14.5W, typical 11.2W              |

## Mechanical

|                         |                                    |
|-------------------------|------------------------------------|
| Color                   | Dark grey                          |
| Material                | Aluminum, Hard-coated dome         |
| Product Dimensions      | ø91x368.6mm(3.85x14.51")           |
| Product Weight          | 2,200g(4.85lb)                     |
| Compatible Conduit Hole | 19.1mm(3/4")(M25)                  |
| Compatible Gang Box     | Single, Double, 4" Octagon, Square |

## Certifications & Standards

|             |                                                                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | 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 60950-1, CAN/CSA C22.2 NO. 60950-1, IEC 62471                                                                                                                                                         |
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10, NEMA 250 type 4X                                                                                                                           |

## DORI (EN62676-4 standard)

|                           |      |                  |
|---------------------------|------|------------------|
| Detect (25PPM/ 8PPF)      | Wide | 49.9m(163.63ft)  |
|                           | Tele | 211.0m(692.28ft) |
| Observe (63PPM/ 19PPF)    | Wide | 19.9m(65.45ft)   |
|                           | Tele | 84.4m(276.91ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 10.0m(32.73ft)   |
|                           | Tele | 42.2m(138.46ft)  |
| Identify (250PPM/ 76PPF)  | Wide | 5.0m(16.36ft)    |
|                           | Tele | 21.1m(69.23ft)   |

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CAD

Unit: mm [inch]

