



Network

Bullet

# QNO-C8083R

5MP IR Bullet Camera



## Key Features

- Max. 5MP resolution
- Max. 30fps
- Color: 0.07Lux(F1.6, 1/30sec), BW: 0.007Lux(F1.6, 1/30sec, 30IRE)
- Focal length: 3.2~10.2mm(3.2x) motorized varifocal
- H.265, H.264, MJPEG codec supported
- Multiple streaming (up to 5 profiles)
- Day & Night (ICR), WDR (120dB)
- Micro SD/SDHC/SDXC 1 slot 256GB
- IP66, IK10
- PoE: Max 12W

# QNO-C8083R

## 5MP IR Bullet Camera



## Specifications

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Video</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Imaging Device            | 1/2.8" CMOS                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Resolution                | 2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240                                                                                                                                                                                                                                                                                                                                                      |
| Max. Framerate            | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps(@5MP Max. 5fps)                                                                                                                                                                                                                                                                                                                                                                                           |
| Min. Illumination         | Color: 0.07Lux (F1.6, 1/30sec)<br>BW: 0.007Lux (F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)                                                                                                                                                                                                                                                                                                                                                                                  |
| Video Out                 | USB: Micro USB Type B, 1280x720 for installation                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Lens</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Focal Length (Zoom Ratio) | 3.2~10.2mm(3.2x) motorized varifocal                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Max. Aperture Ratio       | F1.6(Wide)~F3.1(Tele)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Angular Field of View     | H: 95°(Wide)~29°(Tele)<br>V: 69°(Wide)~21°(Tele)<br>D: 126°(Wide)~36°(Tele)                                                                                                                                                                                                                                                                                                                                                                                             |
| Min. Object Distance      | 1.2m (3.93ft)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Focus Control             | Simple focus                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Lens Type                 | DC auto iris(IR corrected)                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Operational</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Camera Title              | Displayed up to 85 characters                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Day & Night               | Auto(ICR)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Backlight Compensation    | BLC, WDR, SDR                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Wide Dynamic Range        | 120dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Digital Noise Reduction   | SSNR V , WiseNR II (Based on AI engine)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Motion Detection          | 8ea, 8point Polygonal zones                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Privacy Masking           | 32ea, 4point quadrangle zones                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gain Control              | Low / Middle / High                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| White Balance             | ATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| LDC                       | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Electronic Shutter Speed  | Minimum / Maximum / Anti flicker (1/5~1/12,000sec)                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Video Rotation            | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Analytics                 | Classified object type: Person/Vehicle<br>Attributes: Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Support DetectionShot<br>Analytics events based on AI engine<br>- Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit)<br>Analytics events<br>- Defocus detection, Tampering, Virtual area(Appear/Disappear)<br><br>* Some of the video analytics only works with people and vehicle detection |
| Alarm I/O                 | Input 1ea / Output 1ea                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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.

|                    |                                                                                                                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Triggers     | Analytics, Network disconnect, Alarm input                                                                                                                                                                                                                        |
| 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)                                                                                                                                                                                                                                        |
| Audio Out          | Line out, Max.output level: 0.5Vrms                                                                                                                                                                                                                               |
| IR Viewable Length | 30m(98.42ft)                                                                                                                                                                                                                                                      |
| IR Wavelength      | long-life 850 nm IR LED                                                                                                                                                                                                                                           |

|                                   |                                                                                                                                                                                                            |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Network</b>                    |                                                                                                                                                                                                            |
| Ethernet                          | 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<br>→ ( will be supported as R/C in July)<br>Manual(5ea area), 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 5 profiles)                                                                                                                                      |
| 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) |
| Application Programming Interface | ONVIF Profile S/G/T/M<br>SUNAPI(HTTP API)                                                                                                                                                                  |

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| <b>Security</b>        |                                                                   |
| OS / Firmware Protect  | Secure boot, Signed firmware, Firmware encryption                 |
| User authentication    | Digest Authentication, Prevent brute-force attack                 |
| Network authentication | 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)       |
| Secure Communication   | HTTPS, SRTP, WSS(Websocket secure)                                |
| Access Control         | Access control based on IP address                                |
| Data Protect           | Authentication information encryption, ZIP compression encryption |
| Audit                  | User Access/System/Event log management                           |
| Device ID              | Device Certificate(Hanwha Private Root CA)                        |
| Secure Storage         | SDcard partition encrypt                                          |
| Security Certificate   | Secure by default                                                 |

|                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>   |                                                                                                                                            |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Edge Storage     | Micro SD/SDHC/SDXC 1slot 256GB                                                                                                             |
| Memory           | 2GB RAM, 1GB Flash                                                                                                                         |

|                                       |                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental &amp; Electrical</b> |                                                                                                                                    |
| Operating Temperature / Humidity      | -30°C~+55°C(-22°F ~ +131°F) / 0~95% RH(non-condensing)<br>* Start up should be done at above -30°C<br>Humidity control /w Air vent |
| Storage Temperature / Humidity        | -50°C~+60°C(-58°F ~ +140°F) / 0~95% RH                                                                                             |

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|                   |                            |
|-------------------|----------------------------|
| Certification     | IP66, IK10                 |
| Input Voltage     | PoE(IEEE802.3af, Class3)   |
| Power Consumption | PoE: Max 12W, typical 5.3W |

#### Mechanical

|                                   |                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------|
| Color / Material                  | White / Aluminum                                                                          |
| RAL Code                          | RAL9003                                                                                   |
| Product Dimensions / Weight       | ø93.4x245.8mm(ø3.68x9.68"), 930g(2.05 lb)                                                 |
| Compatible Conduit hole / Gangbox | Conduit hole : None<br>Gangbox (SBO-090GP) : Single, Double, 4" Octagon (sold separately) |
| Backbox                           | SBO-140BW                                                                                 |

#### 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 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC/EN 62471                                                                                                                                  |
| Environment | IEC/EN 63000<br>IEC/EN 60529 IP66, IEC/EN 62262 IK10                                                                                                                                   |

#### DORI (EN62676-4 standard)

|                           |                                                |
|---------------------------|------------------------------------------------|
| Detect (25PPM/ 8PPF)      | Wide: 42.7m(140.20ft) / Tele: 186.9m(613.28ft) |
| Observe (63PPM/ 19PPF)    | Wide: 17.2m(56.08ft) / Tele: 75.4m(245.31ft)   |
| Recognize (125PPM/ 38PPF) | Wide: 8.5m(28.04ft) / Tele: 37.4m(122.66ft)    |
| Identify (250PPM/ 76PPF)  | Wide: 4.3m(14.02ft) / Tele: 18.7m(61.33ft)     |