

Network Bullet

# QNO-8020R

5M H.265 IR Bullet Camera

## Key Features

- Max. 5Megapixel (2592 x 1944) resolution
- 4mm fixed lens
- 0.15Lux (Color), 0Lux (B/W, IR LED on)
- H.265, H.264, MJPEG codec support, Multiple streaming
- Day&Night (ICR), WDR (120dB)
- Tampering, Motion detection, Defocus detection
- Micro SD / SDHC / SDXC memory slot (Max. 128GB)
- Hallway view, WiseStream II support
- IR Viewable length 25m (82.02ft)
- IP66, IK10, PoE

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
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# QNO-8020R

5M H.265 IR Bullet Camera



## Specifications

### Video

| | | |
|---|---|---|
| **Imaging Device** | Size | 1/2.8" |
| | Type | CMOS |
| **Resolution** | | 2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| **Max. Framerate** | H.265/H.264 | 30fps/25fps(60Hz/50Hz) |
| | MJPEG | 15fps(@5MP Max. 2fps) |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.15 |
| | BW(1/30sec, 30IRE) | 0.015 |
| **Video Out** | | CVBS: 1.0 Vp-p / 75Ω composite for installation |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 4.0 |
| **Max Aperture Ratio (F number)** | Wide | 1.6 |
| **Angular Field of View** | Horizontal | 80° |
| | Vertical | 59° |
| | Diagonal | 106° |
| **Focus Control** | | Fixed |

### Pan / Tilt / Rotate

| | | |
|---|---|---|
| **Pan / Tilt / Rotate Range** | Pan | 0°~360° |
| | Tilt | 0°~100° |
| | Rotate | 0°~360° |

### Operational

| | | |
|---|---|---|
| **Day & Night** | | Auto(ICR) |
| **Backlight Compensation** | | BLC, WDR, SSDR |
| **Wide Dynamic Range (dB)** | | 120 |
| **Digital Noise Reduction** | | SSNR |
| **Motion Detection** | Quantity | 4ea |
| | Shape | 8point Polygonal zones |

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## Operational

| | | |
|---|---|---|
| **Privacy Masking** | Quantity | 6ea |
| | Shape | Rectangular zones |
| **Gain Control** | | Low, Middle, High |
| **White Balance** | | ATW, AWC, Manual, Indoor, Outdoor |
| **LDC** | | Support |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker |
| | Speed Range | 1/5~1/12,000sec |
| **Video Rotation** | | Flip, Mirror, Hallway view(90°/270°) |
| **Alarm Interface** | In/Out | Input 1ea, Output 1ea |
| **Alarm Triggers** | | Analytics, Network disconnect, Alarm input |
| **Alarm Events When Alarm Trigger Occurred** | | File upload(image): e-mail/FTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset |
| **Light Type** | | IR LED |
| **Light Viewable Length** | IR | 25m(82.02ft) |
| **IR Wavelength** | | 850nm |

## Analytics

| | | |
|---|---|---|
| **Analytics Events** | Normal | Defocus detection, Motion detection, Tampering, Virtual area(Intrusion/Enter/Exit), Virtual line(Crossing, Direction) |

## Network

| | | |
|---|---|---|
| **Ethernet** | | RJ-45(10/100BASE-T) |
| **Video Compression** | | H.265: Main,<br>H.264: Main/High,MJPEG |
| **Smart Codec** | | WiseStream II |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 6 users |
| | Multicast | Support |
| | Multiple Streaming | Up to 3 profiles |
| **Protocol** | | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP |
| **Application Programming Interface** | ONVIF | S, G, T |
| | Others | SUNAPI(HTTP API), Hanwha Vision Open Platform |
| **Direct Cloud Connection** | | Optional (needs gateway) |

## Security

| | |
|---|---|
| **OS / Firmware Protect** | Encrypted firmware |
| **User authentication** | Digest authentication, Prevent brute-force attack |

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## Security

| | |
|---|---|
| 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 | SDcard partition encrypt(AES-256) |

## General

| | | |
|---|---|---|
| Memory | RAM | 512MB |
| | Flash | 256MB |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 128GB x 1slot |

## Environmental & Electrical

| | | |
|---|---|---|
| Operating Condition | Temperature | -30°C~+55°C(-22°F~+131°F) |
| | Humidity | 0~90% RH(non-condensing) |
| | Others | Start up should be done at above -20°C |
| Storage Condition | Temperature | -30°C~+60°C(-22°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| Input Voltage | | PoE(IEEE802.3af, Class3) |
| Power Consumption | PoE | Max. 7.50W, typical 6.10W |

## Mechanical

| | |
|---|---|
| Color | Dark grey |
| Material | Aluminum |
| Product Dimensions | ø70.0x246.0mm(ø2.76x9.69") |
| Product Weight | 680g(1.50lb) |

## Certifications & Standards

| | |
|---|---|
| Environment | IEC 60529 IP66, IEC 62262 IK10 |

## DORI (EN62676-4 standard)

| | | |
|---|---|---|
| Detect (25PPM/ 8PPF) | Wide | 62.0m(203.39ft) |
| Observe (63PPM/ 19PPF) | Wide | 24.8m(81.36ft) |
| Recognize (125PPM/ 38PPF) | Wide | 12.4m(40.68ft) |
| Identify (250PPM/ 76PPF) | Wide | 6.2m(20.34ft) |

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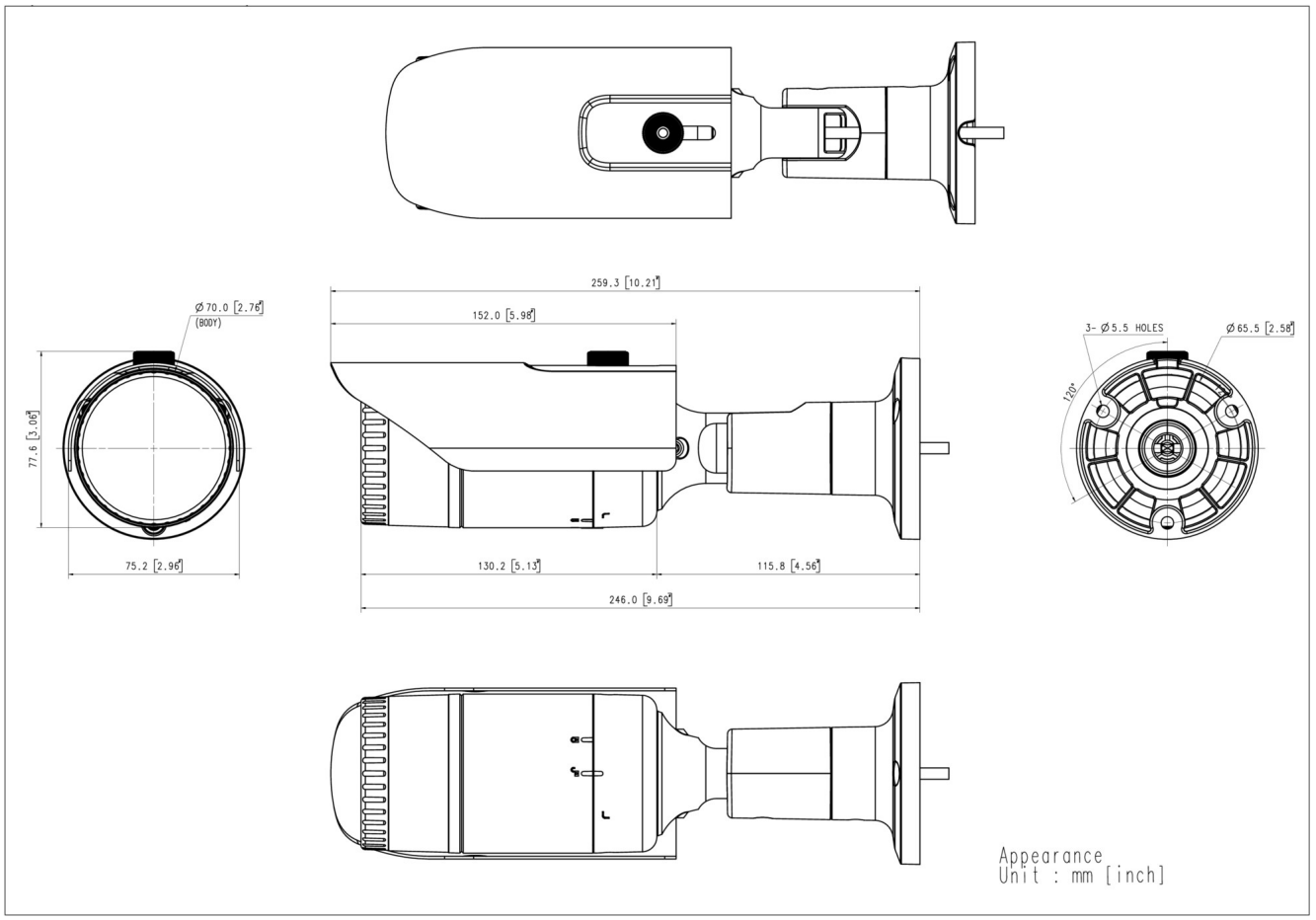
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## CAD

**Unit:** mm [inch]




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