



Network

Bullet

# QNO-7022R

4MP IR Bullet Camera



## Key Features

- Maximum 4MP resolution
- Color : 0.15Lux (F1.6, 1/30sec) B/W : 0Lux (IR LED On)
- 4mm fixed focal
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- Hallway view (90°/270°), LDC support
- Micro SD/SDHC/SDXC memory slot (128GB)
- IR viewable length 25m (82.02ft)
- IP66, IK10, PoE, 12VDC

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4MP IR Bullet Camera



## Specifications

| Video                     |  |
|---------------------------|--|
| Imaging Device            | 1/3" CMOS  |
| Resolution                | 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. 15fps (@4MP Max. 2fps)   |
| Min. Illumination         | Color : 0.15Lux (F1.6, 1/30sec)<br>B/W : 0Lux (IR LED On)  |
| Video Out                 | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation  |
| Lens                      |  |
| Focal Length (Zoom Ratio) | 4.0mm fixed focal  |
| Max. Aperture Ratio       | F1.6   |
| Angular Field of View     | H: 79°, V: 42°, D: 92°   |
| Focus Control             | Fixed  |
| Pan / Tilt / Rotate       |  |
| Pan / Tilt / Rotate Range | 0°~360° / 0°~100° / 0°~360°  |
| Operational               |  |
| Camera Title              | Displayed up to 85 characters  |
| Day & Night               | Auto(ICR)  |
| Backlight Compensation    | BLC, WDR, SDR  |
| Wide Dynamic Range        | 120dB  |
| Digital Noise Reduction   | SSNR   |
| Motion Detection          | 4ea, polygonal zones   |
| Privacy Masking           | 6ea, rectangular 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                 | Motion detection, Tampering, Defocus detection, Virtual area(Intrusion/Enter/Exit), Virtual line(Crossing/Direction)                                 |
| Alarm I/O                 | Input 1ea / Output 1ea   |
| Alarm Triggers            | Analytics, Network disconnect, Alarm input   |
| Alarm events              | File upload via FTP and e-mail<br>Notification via e-mail<br>SD/SDHC/SDXC or NAS recording at event triggers<br>Alarm output<br>Handover(PTZ preset) |

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.

QNO-7022R

|                                       |   |
|---------------------------------------|---|
| Audio In                              | Selectable(mic in/line in)  |
| Light Type                            | IR LED (850nm)  |
| Light Viewable Length                 | 25m (82.02ft)   |
| <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   |
| Smart Codec                           | Manual (5ea area), WiseStream II  |
| Bitrate Control                       | H.264/H.265: CBR or VBR<br>MJPEG: VBR   |
| Streaming                             | Unicast(6 users) / Multicast<br>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, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP |
| Application Programming Interface     | ONVIF Profile S/G/T, SUNAPI (HTTP API)  |
| <b>Security</b>                       |   |
| OS / Firmware Protect                 | 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  |
| <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 128GB  |
| Memory                                | 512MB RAM, 256MB Flash  |
| <b>Environmental &amp; Electrical</b> |   |
| Operating Temperature / Humidity      | -40°C~+55°C (-40°F ~ +131°F) / 0~95% RH<br>*Start up should be done at -30°C or above   |
| Storage Temperature / Humidity        | -40°C~+60°C (-40°F~+140°F) / 0~95% RH   |
| Certification                         | IP66, IK10  |
| Input Voltage                         | PoE(IEEE802.3af, Class3), 12VDC   |
| Power Consumption                     | PoE: Max 10.7W, typical 8W<br>12VDC: Max 9.1W, typical 6.8W   |
| <b>Mechanical</b>                     |   |
| Color / Material                      | Dark grey / Aluminum  |
| Product Dimensions / Weight           | ø70.0x246.0mm(ø2.76x9.69"), 700g(1.54 lb)   |
| Compatible Conduit hole / Gangbox     | Single, Double, 4"Octagon   |
| Backbox                               | SBO-100B1, SBO-147B   |

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DORI (EN62676-4 standard)

|                           |                 |
|---------------------------|-----------------|
| Detect (25PPM/ 8PPF)      | 63.0m(206.70ft) |
| Observe (63PPM/ 19PPF)    | 25.2m(82.68ft)  |
| Recognize (125PPM/ 38PPF) | 12.6m(41.34ft)  |
| Identify (250PPM/ 76PPF)  | 6.3m(20.67ft)   |

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CAD

Unit:mm [inch]

