



Network

Bullet

# QNO-6022R1

2MP IR Bullet Camera



## Key Features

- Maximum 2megapixel (1920 x 1080) resolution
- 0.03Lux (Color), 0Lux (B/W, IR LED on)
- 4mm fixed lens
- Maximum 30fps@2MP all resolutions (H.265/H.264)
- 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 (Max. 128GB)
- IR viewable length 25m
- IP66, IK10, PoE, 12VDC
- No-audio model

## Compatible Devices



SBP-302PM



SBO-100B1

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## Specifications

### Video

|                         |                       |                                                                                     |
|-------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Imaging Device          | Size                  | 1/2.8"                                                                              |
|                         | Type                  | CMOS                                                                                |
| Resolution              |                       | 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360 |
| Max. Framerate          | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                              |
|                         | MJPEG                 | 15fps(@2MP Max. 4fps)                                                               |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.03                                                                                |
|                         | BW(1/30sec, 30IRE)    | 0.003                                                                               |
| 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 | 88°          |
|                               | Vertical   | 47°          |
|                               | Diagonal   | 105°         |
| Min. Object Distance          |            | 0.5m(1.64ft) |
| 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           |

## Operational

|                                          |             |                                                                                                                                                              |
|------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motion Detection                         | Quantity    | 4ea                                                                                                                                                          |
|                                          | Shape       | 8point Polygonal zones                                                                                                                                       |
| 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/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, IGMP, 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                       |
| 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), 12VDC        |
| Power Consumption   | PoE         | Max 7.00W, typical 5.20W               |
|                     | 12VDC       | Max 6.10W, typical 4.50W               |

## Mechanical

|                     |                            |
|---------------------|----------------------------|
| Color               | Dark grey                  |
| Material            | Aluminum                   |
| Product Dimensions  | ø70.0x246.0mm(2.76x9.69")  |
| Product Weight      | 700g(1.54lb)               |
| Compatible Gang Box | Single, Double, 4" Octagon |

## 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 62262 IK10                                                                                                                                                             |

**DORI (EN62676-4 standard)**

|                                  |      |                 |
|----------------------------------|------|-----------------|
| <b>Detect (25PPM/ 8PPF)</b>      | Wide | 40.0m(131.36ft) |
| <b>Observe (63PPM/ 19PPF)</b>    | Wide | 16.0m(52.54ft)  |
| <b>Recognize (125PPM/ 38PPF)</b> | Wide | 8.0m(26.27ft)   |
| <b>Identify (250PPM/ 76PPF)</b>  | Wide | 4.0m(13.14ft)   |

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CAD

Unit: mm [inch]

