



Network

Bullet

## QNO-6022R

2M H.265 IR Bullet Camera



### Key Features

- Max. 2megapixel (1920 x 1080) resolution
- 0.03Lux (Color), 0Lux (B/W, IR LED on)
- 4mm fixed lens
- Max. 30fps@2M 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

### Compatible Devices



SBP-302PM



SBO-100B1

# QNO-6022R

2M H.265 IR Bullet Camera



## 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 |
| Audio In                                 |             | Selectable(mic in/line in)                                                                                                                                   |
| 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                                                                                                                                                                              |
| Audio Compression                 |                    | G.711 u-law /G.726 selectable, G.726(ADPCM) 8kHz, G.711 8kHz, G.726: 16kbps, 24kbps, 32kbps, 40kbps                                                                                                        |
| 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, SRTP(TCP, UDP Unicast) |
| Application Programming Interface | ONVIF              | S, G, T                                                                                                                                                                                                    |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                              |

## Network

|                         |                          |
|-------------------------|--------------------------|
| 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. 7.0W, typical 5.2W                |
|                     | 12VDC       | Max. 6.1W, typical 4.5W                |

## 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                                                                                                                                                         |

**Certifications & Standards**

|             |                                              |
|-------------|----------------------------------------------|
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10 |
|-------------|----------------------------------------------|

**DORI (EN62676-4 standard)**

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

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**CAD**

Unit: mm [inch]

