# QNO-7020R

4M H.265 NW IR Bullet Camera



## Key Features

- Max. 4M resolution
- Built-in 3.6mm fixed lens
- Max. 20fps@4M, Max. 30fps@under 2M (H.265/H.264)
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- microSD (128GB) memory slot, PoE / 12V DC

## Accessories (Optional)



SBO-100B1



SBP-302PM

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| **Video** | |
| Imaging Device | 1/3" 4MP CMOS |
| Effective Pixels | 2688(H)x1520(V) |
| Min. Illumination | Color: 0.4Lux(F2.2, 1/30sec)<br>BW: 0Lux(IR LED on) |
| **Lens** | |
| Focal Length (Zoom Ratio) | 3.6mm fixed focal |
| Max. Aperture Ratio | F2.2 |
| Angular Field of View | H: 81.0° / V: 45.0° / D: 95.0° |
| Focus Control | Fixed |
| **Operational** | |
| IR Viewable Length | 25m(82.02ft) |
| Camera Title | Displayed up to 20 characters per line(Max.5 lines) |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, WDR, SSDR |
| 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 |
| Video Rotation | Flip, Mirror, Hallway view(90˚/270˚) |
| Analytics | Defocus detection, Motion detection, Tampering |
| 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 |
| Audio In | Line in<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm |
| **Network** | |
| Ethernet | RJ-45(10/100BASE-T) |
| Video Compression | H.265/H.264, MJPEG |
| Resolution | 2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate | H.265/H.264: Max. 20fps@4MP, Max. 30fps/25fps(60Hz/50Hz) 2MP, all resolution,<br>MJPEG: Max 15fps/12fps(60Hz/50Hz) |
| Smart Codec | WiseStream I |
| Bitrate Control | H.264/H.265: CBR or VBR<br>MJPEG: VBR |

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| Streaming | Unicast(6 users) / Multicast<br>Multiple streaming(Up to 3 profiles) |
| Audio Compression | G.711 u-law /G.726 Selectable<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps |
| 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, PIM-SM, UPnP, Bonjour |
| Security | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP) |
| Edge Storage | Micro SD/SDHC/SDXC 1slot 128GB |
| Application Programming Interface | ONVIF Profile S/G<br>SUNAPI(HTTP API) |
| Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12<br>Recommended Browser: Google Chrome<br>Supported Browser: MS Explorer11, MS Edge, Mozilla Firefox(Windows 64bit only), Apple Safari(Mac OS X only) |
| Memory | 512MB RAM, 256MB Flash |
| **Environmental** | |
| Operating Temperature / Humidity | -30°C ~ +55°C(-22°F ~ +131°F) / Less than 90% RH<br>* Start up should be done at above -20°C |
| Storage Temperature / Humidity | -30°C ~ +60°C(-22°F ~ +140°F) / Less than 90% RH |
| Certification | IP66, IK10 |
| **Electrical** | |
| Input Voltage | PoE(IEEE802.3af, Class3), 12VDC |
| Power Consumption | PoE: Max 7.00W<br>12VDC: Max 6.00W |
| **Mechanical** | |
| Color / Material | Dark grey / Aluminum |
| Product dimensions / weight | Ø70.0x246.0mm(Ø2.76x9.69"), 730g(1.61 lb) |

- The lastest product information / specification can be found at hanwha-security.com
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin , formerly known as Samsung Techwin.

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