XNO-9082R
4K Network IR Bullet Camera

Key Features
• 4K resolution
• 2.8~8.4mm(3x) motorized varifocal
• 0.05Lux@F1.2 (Color), 0Lux (B/W, IR LED on)
• Max.30fps@4K (H.265/H.264)
• IR viewable length 131ft (40m)
• Day & Night (ICR), extreme WDR
• DIS with built-in Gyro sensor
• Video Analytics (Defocus detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification, Shock detection, Face/upper body detection, Fog detection, Motion detection, Digital auto tracking)
• Dual SD slots (Maximum total capacity 512GB)
• Modular structure, PoE support
• IP66/IP67, IK10, NEMA4X

Accessories (Optional)

SBP-302PM
### Video

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imaging Device</td>
<td>1/2.8”CMOS</td>
</tr>
<tr>
<td>Resolution</td>
<td>3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240</td>
</tr>
</tbody>
</table>
| Maximum Framerate            | H.265/H.264: Maximum 30fps  
MJPEG: Maximum 15fps          |
| Minimum Illumination         | Color: 0.05Lux(F1.2, 1/30sec)  
B/W: 0Lux(IR LED On)          |
| Video Out                    | CVBS: 1.0 Vp-p / 75Ω composite, 720x480 for installation  
USB: Micro USB Type B, 1280x720 for installation |

### Lens

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal Length (Zoom Ratio)</td>
<td>2.8~8.4mm(3x) motorized varifocal</td>
</tr>
<tr>
<td>Maximum Aperture Ratio</td>
<td>F1.2(Wide)~F2.8(Tele)</td>
</tr>
</tbody>
</table>
| Angular Field of View         | H: 114°(Wide)~40.2°(Tele)  
V: 62.0°(Wide)~22.5°(Tele)  
D: 133.0°(Wide)~46.3°(Tele) |
| Minimum Object Distance       | 0.7m (2.23ft)                                                                |
| Focus Control                 | Simple focus                                                                 |
| Lens Type                     | DC Auto Iris, P iris                                                        |

### Operational

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Title</td>
<td>Displayed up to 85 characters</td>
</tr>
<tr>
<td>Day &amp; Night</td>
<td>Auto(ICR)</td>
</tr>
<tr>
<td>Backlight Compensation</td>
<td>BLC, HLC, WDR, SSDR</td>
</tr>
<tr>
<td>Wide Dynamic Range</td>
<td>extremeWDR</td>
</tr>
<tr>
<td>Digital Noise Reduction</td>
<td>SSNRV</td>
</tr>
<tr>
<td>Digital Image Stabilization</td>
<td>Support(built-in gyro sensor)</td>
</tr>
<tr>
<td>Defog</td>
<td>Support</td>
</tr>
<tr>
<td>Motion Detection</td>
<td>8ea, 8point Polygonal zones</td>
</tr>
</tbody>
</table>
| Privacy Masking               | 32ea, polygonal zones  
- Color : Gray, Green, Red, Blue, Black, White  
- Mosaic                        |
| Gain Control                  | Support                                                                     |
| White Balance                 | ATW / Narrow 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                     | Defocus detection, Directional detection, Motion detection, Digital auto tracking,  
Appear/Disappear,  
Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification,  
Shock detection, Face/upper body detection |
| Business Intelligence         | People counting, Queue management, Heatmap                                  |
| Alarm I/O                     | 2 configurable I/O ports                                                   |
| Alarm Triggers                | Analytics, Network disconnect, Alarm input                                  |
### Alarm Events
- File upload via FTP and e-mail
- Notification via e-mail
- SD/SDHC/SDXC or NAS recording at event triggers
- Alarm output
- PTZ Preset
- Handover
- Audio playback

### Audio In
- Selectable (microphone in/line in)
- Supply voltage: 2.5VDC (4mA), Input impedance: 2K Ohm

### Audio Out
- Line out, Maximum output level: 1Vrms

### IR Viewable Length
- 40m (131.23ft)

### Network
- **Ethernet**: Metal shielded RJ-45 (10/100/1000BASE-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
- AAC-LC: 48Kbps at 16KHz

### Smart Codec
- Manual (Sea area), WiseStream II

### Bitrate Control
- H.264/H.265: CBR or VBR
- MJPEG: VBR

### Streaming
- Unicast (20 users) / Multicast
- Multiple streaming (Up to 10 profiles)

### Protocol
- IPv4, IPv6, TCP/IP, UDP/IP, RTP/UDP, RTCP/TCP, RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast)

### Security
- HTTPS (SSL) Login Authentication
- Digest Login Authentication
- IP Address Filtering
- User access log
- 802.1X Authentication (EAP-TLS, EAP-LEAP)
- Device Certificate (Hanwha Techwin Root CA)

### Application Programming Interface
- ONVIF Profile S/G/T
- SUNAPI (HTTP API)
- Wisenet open platform

### General
- **Webpage Language**: English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek

### Web Viewer
- Supported OS: Windows 8.1 or later, Mac OS X 10.13 or later
- Recommended Browser: Google Chrome
- Supported Browser: MS Internet Explorer 11, MS Edge, Mozilla Firefox (Windows 64-bit only), Apple Safari (Mac OS X only)

### Edge Storage
- Micro SD/SDHC/SDXC 2 slots 512GB (256Gx2)

### Memory
- 4GB RAM, 512MB Flash

### Environmental & Electrical
- **Operating Temperature / Humidity**: -50°C ~ +60°C (-58°F ~ +140°F) / Less than 95% RH (non-condensing)
  - *Start up should be done at above -30°C*
- **Storage Temperature / Humidity**: -50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH
- **Certification**: IP66/IP67, IK10, NEMA4X
- **Input Voltage**: PoE (IEEE802.3af), 12VDC, 24VAC
Power Consumption

<table>
<thead>
<tr>
<th></th>
<th>PoE: Maximum 12.95W, typical 10.5W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12VDC: Maximum 12.5W, typical 9.4W</td>
</tr>
<tr>
<td></td>
<td>24VAC: Maximum 14.5W, typical 11.2W</td>
</tr>
</tbody>
</table>

Mechanical

<table>
<thead>
<tr>
<th>Color / Material</th>
<th>Dark grey / Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product dimensions / weight</td>
<td>Ø91x368.6mm(Ø3.85”x14.51”), 2.2kg(4.85 lb)</td>
</tr>
<tr>
<td>Gangbox Compatibility</td>
<td>Single, Double, 4” Square, 4” Octagon</td>
</tr>
<tr>
<td>DORI (EN62676-4 standard)</td>
<td></td>
</tr>
<tr>
<td>Detect (25PPM/ 8PPF)</td>
<td>Wide: 49.9m(163.71ft) / Tele: 209.9m(688.65ft)</td>
</tr>
<tr>
<td>Observe (63PPM/ 19PPF)</td>
<td>Wide: 19.9m(65.29ft) / Tele: 83.9m(275.26ft)</td>
</tr>
<tr>
<td>Recognize (125PPM/ 38PPF)</td>
<td>Wide: 10.0m(32.80ft) / Tele: 42.0m(137.80ft)</td>
</tr>
<tr>
<td>Identify (250PPM/ 76PPF)</td>
<td>Wide: 5.0m(16.40ft) / Tele: 21.0m(68.90ft)</td>
</tr>
</tbody>
</table>

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