

Network Fisheye

# XNF-9010RVM

X series 12 MP sensor 360° Outdoor Fisheye (Mobile)

## Key Features

- CloudConnector Compatible – Connects easily with HealthPro, OnCloud
- 3008 x 3008 resolution, 30fps
- 1.08mm Stereographic type lens, enhanced resolution for the peripheral regions (187?X187?) W/ simple focus
- Built-in IR for up coverage up to 10m with Wise IR multi-zone IR management
- Triple Codec: H.265, H.264 and MJPEG multiple streaming
- On board dewarping, Digital PTZ
- Fisheye, Single panorama, Double panorama, Quad view
- Multiple virtual channels for easy dewarping views
- WiseStream II compression technology
- extreme WDR 120dB @30fps
- Loitering, directional detection, fog detection, tampering, motion detection, object enter or exit an area
- Sound classification, heatmap, people counting and queue line management
- Dual SD cards
- Power: PoE or 12VDC
- IP66/IK10/NEMA4X
- Includes M12 Mobile connector
- EN50155 class T3 mobile certified camera
- USB & analog video output for easy installation
- Hard coated dome cover for durability

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## Specifications

### Video

| | | |
|---|---|---|
| **Imaging Device** | Size | 1/2.3" |
| | Type | CMOS |
| **Resolution** | | 3584x2688, 3584x1792, 3584x896, 3008x3008, 1792x1344, 1504x1504, 1080x1080, 960x960, 768x768, 720x720, 640x640, 640x480, 640x320, 640x160, 480x480 |
| **Max. Framerate** | H.265/H.264 | 30fps/25fps(60Hz/50Hz) |
| | MJPEG | 30fps(@9MP Max. 5fps) |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.39 |
| | BW(1/30sec, 30IRE) | 0.039 |
| **Video Out** | | CVBS: 1.0 Vp-p / 75Ω composite for installation,<br>USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle. |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 1.08 |
| **Max Aperture Ratio (F number)** | Wide | 2.2 |
| **Angular Field of View** | Horizontal | 187° |
| | Vertical | 187° |
| | Diagonal | 187° |
| **Min. Object Distance** | | 0.5m(1.64ft) |
| **Focus Control** | | Simple focus |

### Operational

| | | |
|---|---|---|
| **Day & Night** | | Auto(ICR) |
| **Backlight Compensation** | | BLC, HLC, WDR, SSDR |
| **Wide Dynamic Range (dB)** | | 120 |
| **Digital Noise Reduction** | | SSNR V |
| **Motion Detection** | Quantity | 8ea |
| | Shape | 8point Polygonal zones |
| **Privacy Masking** | Quantity | 32ea |
| | Shape | 4point Quadrangle zones |
| | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic |

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## Operational

| | | |
|---|---|---|
| **Gain Control** | | Off, Max gain, Manual |
| **White Balance** | | ATW, NarrowATW, AWC, Manual, Indoor, Outdoor |
| **LDC** | | Support(Fill/stretch mode) |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker, Prefer shutter control |
| | Speed Range | 2~1/12,000sec |
| **Video Rotation** | | Flip, Mirror |
| **Alarm Interface** | In/Out | 2 configurable I/O ports |
| **Alarm Triggers** | | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription |
| **Alarm Events When Alarm Trigger Occurred** | | File upload(image): e-mail/FTP/SFTP,<br>File upload(video clip): FTP/SFTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| **Audio In** | | Selectable(mic in/line in), Built-in mic |
| **Audio Out** | | Line out |
| **Light Type** | | IR LED |
| **Light Viewable Length** | IR | WiseIR 10m(32.8ft) |
| **IR Wavelength** | | 850nm |

## Analytics

| | | |
|---|---|---|
| **Analytics Events** | Normal | Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) |
| **Business Intelligence** | Normal | People counting, Queue management, Heatmap |

## Network

| | | |
|---|---|---|
| **Ethernet** | | Metal shielded M12(10/100BASE-T)(through RJ45 to M12 cable) |
| **Video Compression** | | H.265: Main,<br>H.264: Main/Baseline/High,MJPEG |
| **Audio Compression** | | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz |
| **Smart Codec** | | Manual, WiseStream II |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 20 users |
| | Multicast | Support |
| | Multiple Streaming | Up to 10 profiles |
| **Protocol** | | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |

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## Network

| | | |
|---|---|---|
| **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, Secure boot, Signed 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** | HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256) |
| **Security Certificate** | TPM 2.0 with FIPS 140-2 level2 |

## General

| | | |
|---|---|---|
| **Memory** | RAM | 4GB |
| | Flash | 512MB |
| **Edge Storage** | Micro SD/SDHC/SDXC | Max. 256GB x 2slot(Total 512GB) |

## Environmental & Electrical

| | | |
|---|---|---|
| **Operating Condition** | Temperature | -40°C~+60°C(-40°F~+140°F) |
| | Humidity | 0~95% RH(non-condensing) |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| **Input Voltage** | | PoE(IEEE802.3af, Class3), 12VDC |
| **Power Consumption** | PoE | Max 12.95W, typical 11W |
| | 12VDC | Max 11W, typical 9.1W |

## Mechanical

| | |
|---|---|
| **Color** | White |
| **Material** | Aluminum |
| **RAL Code** | RAL9003 |
| **Product Dimensions** | ø160x72mm(ø6.30x2.83") |
| **Product Weight** | 1100g(2.43 lb) |
| **Compatible Gang Box** | Single, Double, 4" Octagon, Square |

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## 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 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471 |
| **Environment** | IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X, EN 50155 |

## DORI (EN62676-4 standard)

| | | |
|---|---|---|
| **Detect (25PPM/ 8PPF)** | Wide | 34.9m(114.49ft) |
| **Observe (63PPM/ 19PPF)** | Wide | 13.9m(45.60ft) |
| **Recognize (125PPM/ 38PPF)** | Wide | 7.0m(22.96ft) |
| **Identify (250PPM/ 76PPF)** | Wide | 3.5m(11.48ft) |

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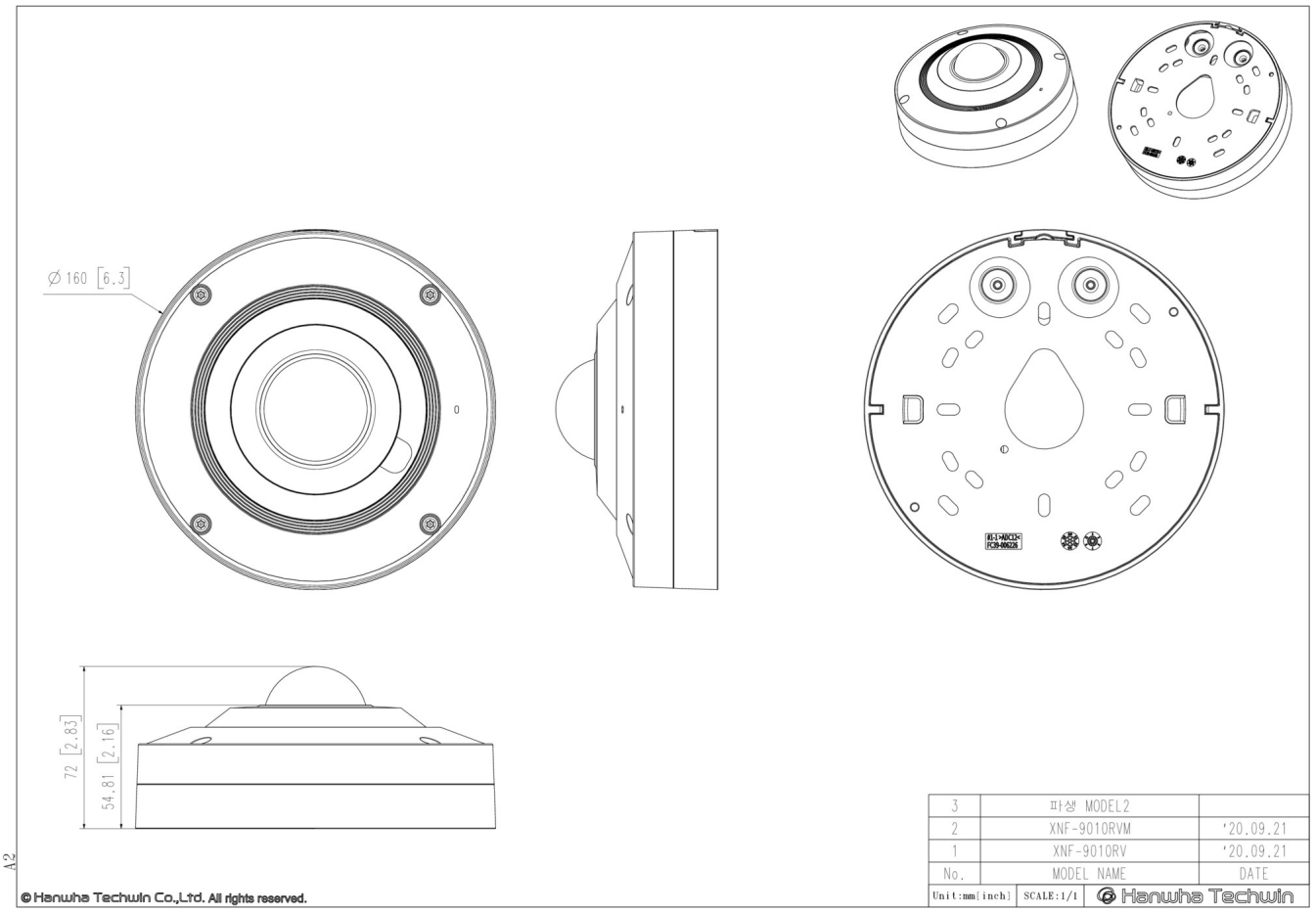
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## CAD

**Unit:** mm [inch]




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