

# XNF-9010RV

12MP IR Fisheye Camera



FC |  | CE | ENEC

## Key Features

- 1/2.3" 12MP CMOS
- 1.08mm fixed focal lens
- Stereo graphic type lens, enhanced resolution for the peripheral regions
- H.265, H.264, MJPEG codec supported
- Fisheye, Single panorama, Double panorama, Quad view
- On board dewarping, Digital PTZ
- extreme WDR (120dB), WiseStream II support
- Wise IR, IR viewable length 10m
- Virtual channel support
- Plugin support, selectable I/O port
- Video Analytics, Heatmap, People counting
- Queue management
- Hard coated dome cover
- Motion detection, Handover, IP66/IK10/NEMA4X

| Video                     |                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device            | 1/2.3" 12MP CMOS                                                                                                                                                                                                                  |
| Resolution                | Original view(1:1): 3008x3008~480x480,<br>Double panorama(2:1): 3584x1792~640x320,<br>Single panorama(4:1): 3584x896~640x160,<br>Quad view: 3584x2688~640x480,<br>Q1/Q2/Q3/Q4(4:3): 1792x1344~640x480                             |
| Max. Framerate            | H.265/H.264:<br>Original view-Max.30fps/25fps@3008x3008(60Hz/50Hz),<br>Double panorama-Max.30fps/25fps@3584x1792(60Hz/50Hz)<br>Single panorama-Max.30fps/25fps@3584x896(60Hz/50Hz)<br>MJPEG: Max.30fps/25fps@1080x1080(60Hz/50Hz) |
| Min. Illumination         | Color: 0.39 Lux (F2.2, 1/30sec), BW : 0Lux(IR LED on)                                                                                                                                                                             |
| Video Out                 | CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for Installation<br>USB: Micro USB Type B, 1280x720 for installation                                                                                                     |
| Lens                      |                                                                                                                                                                                                                                   |
| Focal Length (Zoom Ratio) | 1.08mm fixed focal                                                                                                                                                                                                                |
| Max. Aperture Ratio       | F2.2                                                                                                                                                                                                                              |
| Angular Field of View     | H: 187° / V: 187° / D: 187°                                                                                                                                                                                                       |
| Min. Object Distance      | 0.5m(1.64ft)                                                                                                                                                                                                                      |
| Focus Control             | Simple focus                                                                                                                                                                                                                      |
| Operational               |                                                                                                                                                                                                                                   |
| Camera Title              | Displayed up to 85 characters                                                                                                                                                                                                     |
| Day & Night               | Auto(ICR)                                                                                                                                                                                                                         |
| Backlight Compensation    | BLC, HLC, WDR, SSDR                                                                                                                                                                                                               |
| Wide Dynamic Range        | extremeWDR (120dB)                                                                                                                                                                                                                |
| Digital Noise Reduction   | SSNR V                                                                                                                                                                                                                            |
| Motion Detection          | 8ea, 8point polygonal zones                                                                                                                                                                                                       |
| Privacy Masking           | 32ea, polygonal zones<br>- Color: Grey/Green/Red/Blue/Black/White<br>- Mosaic                                                                                                                                                     |
| Gain Control              | Low / Middle / High                                                                                                                                                                                                               |
| White Balance             | ATW / Narrow ATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                                                |
| Electronic Shutter Speed  | Minimum / Maximum / Anti flicker (1/5~1/12,000sec)                                                                                                                                                                                |
| Video Rotation            | Flip, Mirror                                                                                                                                                                                                                      |
| Analytics                 | Defocus detection, Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification                                                               |
| Business Intelligence     | People counting, Queue management, Heatmap                                                                                                                                                                                        |
| Alarm I/O                 | 2 configured I/O                                                                                                                                                                                                                  |
| 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<br>PTZ Preset<br>Handover<br>Audio playback                                    |
| Audio In                              | Selectable(mic in/line in/built-in mic)<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm                                                                                                             |
| Audio Out                             | Line out, Max. output level: 1Vrms                                                                                                                                                                          |
| IR Viewable Length                    | 10m(32.8ft), Wise IR                                                                                                                                                                                        |
| <b>Network</b>                        |                                                                                                                                                                                                             |
| Ethernet                              | Metal shielded RJ-45(10/100BASE-T)                                                                                                                                                                          |
| Video Compression                     | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                      |
| Audio Compression                     | G.711 u-law /G.726 Selectable<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz                                                                          |
| Smart Codec                           | Manual(5ea area), WiseStream II                                                                                                                                                                             |
| Bitrate Control                       | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                       |
| Streaming                             | Unicast(20 users) / Multicast<br>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, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP (TCP, UDP Unicast) |
| 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)<br>Device Certificate(Hanwha Techwin Root CA)         |
| Application Programming Interface     | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform                                                                                                                                            |
| <b>General</b>                        |                                                                                                                                                                                                             |
| Webpage Language                      | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek                                                        |
| Edge Storage                          | Micro SD/SDHC/SDXC 2slot 1TB(512GBx2)                                                                                                                                                                       |
| Memory                                | 4096MB RAM, 512MB Flash                                                                                                                                                                                     |
| <b>Environmental &amp; Electrical</b> |                                                                                                                                                                                                             |
| Operating Temperature / Humidity      | -40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH                                                                                                                                                           |
| Storage Temperature / Humidity        | -50°C ~ +60°C(-58°F ~ +140°F) / Less than 95% RH                                                                                                                                                            |
| Certification                         | IP66, IK10, NEMA4X                                                                                                                                                                                          |
| Input Voltage                         | PoE(IEEE802.3af, Class3), 12VDC                                                                                                                                                                             |

|                   |                                                              |
|-------------------|--------------------------------------------------------------|
| Power Consumption | PoE: Max 12.95W, typical 11W<br>12VDC: Max 11W, typical 9.1W |
|-------------------|--------------------------------------------------------------|

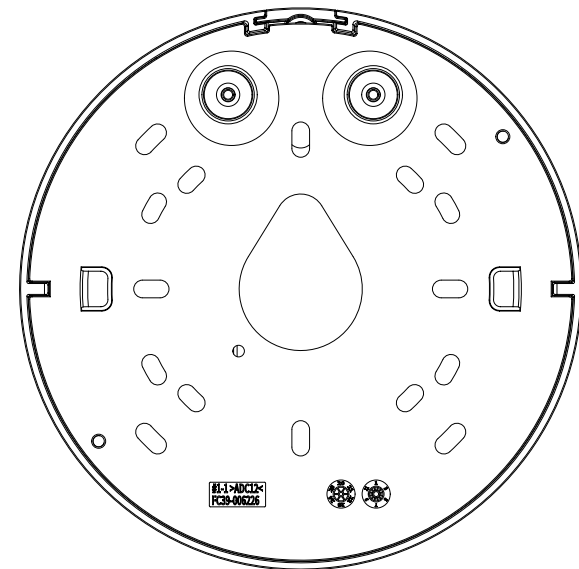
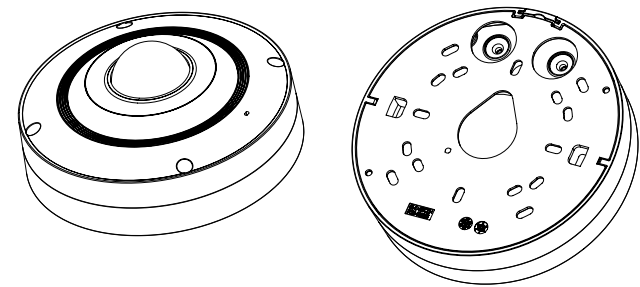
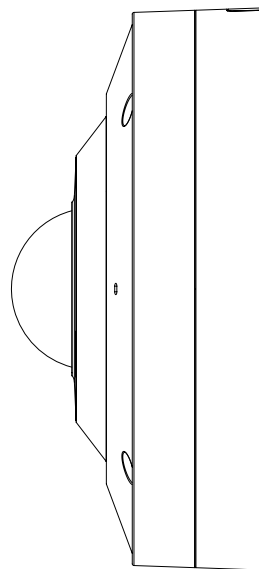
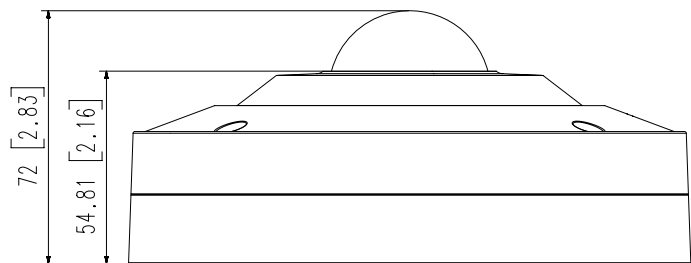
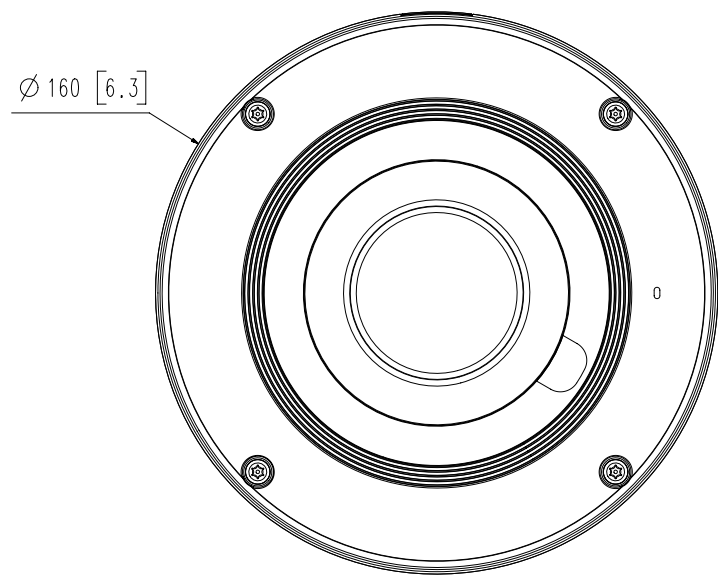
#### Mechanical

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Color / Material            | White / Aluminum, Hard-coated dome bubble |
| RAL Code                    | RAL9003                                   |
| Product Dimensions / Weight | Ø160x72mm(62.99x28.35"), 1100g(2.43lb)    |

#### DORI (EN62676-4 standard)

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

- The latest product information / specification can be found at [hanwha-security.com](http://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.



|                         |             |                |
|-------------------------|-------------|----------------|
| 3                       | 파생 MODEL2   |                |
| 2                       | XNF-9010RVM | '20.09.21      |
| 1                       | XNF-9010RV  | '20.09.21      |
| No.                     | MODEL NAME  | DATE           |
| Unit:mm[inch] SCALE:1/1 |             | Hanwha Techwin |