



## XNF-9010RV

12MP IR Fisheye Camera

### Benefits

- Equipped with Wisenet 7 chipset with its industry leading cyber security features and cutting edge image processing technology
- Built in IR illumination and Wide Dynamic Range ensures superb quality images, regardless of the lighting conditions
- Choice of alternative viewing modes, including single panorama, double panorama and quad views to sort the users' environment
- Digital PTZ allows users to electronically pan, tilt and zoom in on specific areas for a more detailed view, whilst at the same time, continuing to record the whole 360° view
- In the event of network disruption, video is automatically recorded to on-board SDXC storage to ensure that potential video evidence is not lost
- Ideal for the retail sector, built-in retail analytics uses heatmaps, people counting and queue management video analytics giving retailers an understanding of customer behaviour and potential to improve the customer experience.

### XNF-9010RV

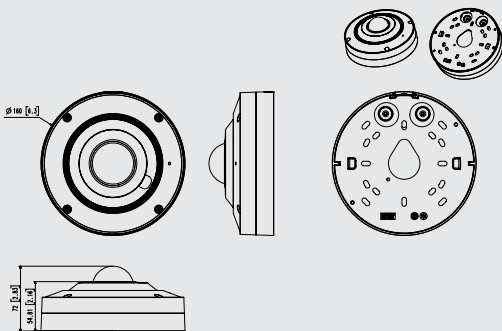
| XNF-9010RV                |   |
|---------------------------|---|
| <b>VIDEO</b>              |   |
| Imaging Device            | 1/2.3" 12MP CMOS  |
| Resolution                | Original view(1:1): 3008x3008~480x480,<br>Double panorama(2:1): 3584x1792~640x320,<br>Single panorama(4:1): 3584x896~640x160,<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   |
| <b>LENS</b>               |   |
| 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  |
| <b>OPERATIONAL</b>        |   |
| Camera Title              | Displayed up to 85 characters   |
| Day & Night               | Auto(ICR)   |
| Backlight Compensation    | BLC, HLC, WDR, SSSDR  |
| 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)  |
| Digital PTZ               | Support(Preset, Group)  |
| 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  |

## Key Features

- 1/2.3" 12MP CMOS
- 1.08mm fixed focal lens
- Stereo graphic type lens, enhanced resolution for the peripheral regions
- Fisheye, Single panorama, Double panorama, Quad view
- On board dewarping, Digital PTZ
- Extreme WDR (120dB)
- H.265, H.264, MJPEG codec supported, WiseStreamII support
- Wise IR, IR viewable length 10m
- Plugin support, selectable I/O port
- Advanced Video Analytics, Business Intelligence: Heatmap, People counting, Queue management
- IP66/IK10/NEMA4X

## Dimensions

Unit:mm(inch)



\* 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.

## XNF-9010RV

### NETWORK

|                                   |  |
|-----------------------------------|--|
| 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(Sea area), WiseStreamII   |
| Video Quality Adjustment          | H.264/H.265: Target bitrate level control<br>MJPEG: Quality level control  |
| 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   |

### GENERAL

|                  |  |
|------------------|--|
| 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  |

### ENVIRONMENTAL & ELECTRICAL

|                                  |  |
|----------------------------------|--|
| 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)    |
| Hanging mount(Dome)         | SBP-167HMMW                               |

### 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)   |