



Network

Fisheye

XNF-9010RS

Stainless IR Fisheye Camera



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 8m (26.25ft)
- Virtual channel support
- Plugin support, selectable I/O port
- Video Analytics, Heatmap, People counting
- Queue management
- Stainless Steel
- Motion detection, Handover
- IP66, IP67, IP6K9K, NEMA4X, IK10, IK10+ (it can resist impacts of 40 joules), NSF/ANSI Standard 169 – Special Purpose Food Equipment and Devices

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Specifications

| Video | |
|---------------------------|--|
| Imaging Device | 1/2.3" CMOS |
| Resolution | Original view(1:1): 3008x3008~480x480 Double panorama(2:1): 3584x1792~640x320 Single panorama(4:1): 3584x896~640x160 Quad view: 3584x2688~640x480 Q1/Q2/Q3/Q4(4:3): 1792x1344~640x480 |
| Max. Framerate | H.265/H.264: Original view-Max. 30fps/25fps@3008x3008(60Hz/50Hz), Double panorama-Max. 30fps/25fps@3584x1792(60Hz/50Hz) Single panorama-Max. 30fps/25fps@3584x896(60Hz/50Hz) MJPEG: Max. 30fps(@9MP Max. 5fps) |
| Min. Illumination | Color: 0.39Lux(F2.2, 1/30sec, 30IRE) BW: 0Lux(IR LED on) |
| Video Out | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for Installation 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, SSSDR |
| Wide Dynamic Range | extremeWDR(120dB) |
| Digital Noise Reduction | SSNR V |
| Motion Detection | 8ea, 8point Polygonal zones |
| Privacy Masking | 32ea, 4point Quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic |
| Gain Control | Off / Max Gain / Manual |
| White Balance | ATW / NarrowATW / AWC / Manual / Indoor / Outdoor |
| LDC | Support(Fill/stretch mode) |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker(2~1/12,000sec) prefer shutter control |
| Video Rotation | Flip, Mirror |
| Analytics | Analytics events - 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 |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com

Hanwha Vision is formerly known as Hanwha Techwin.

| | |
|--------------------|---|
| Alarm I/O | 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 - File upload(video clip): FTP/SFTP - Notification: e-mail - Recording: SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback - MQTT: publication |
| Audio In | Selectable(mic in/line in/built-in mic) |
| Audio Out | Line out |
| IR Viewable Length | WiseIR 8m(26.25ft) |

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|-----------------------------------|--|
| 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 G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz |
| Smart Codec | Manual(5ea 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), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform |

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|------------------------|---|
| Security | |
| OS / Firmware Protect | Encrypted Firmware, Secure boot, Signed Firmware |
| User authentication | Digest Authenticon, Prevent brute-force attacks |
| 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 |

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| General | |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Edge Storage | Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2) |
| Memory | 4GB RAM, 512MB Flash |

| | |
|---------------------------------------|---|
| Environmental & Electrical | |
| Operating Temperature / Humidity | -40°C~+50°C(-40°F~+122°F) / 0~95% RH(non-condensing) |
| Storage Temperature / Humidity | -50°C~+60°C(-58°F~+140°F) / 0~90% RH |
| Certification | IP66/IP67, IP6K9K, NEMA4X, IK10+ NSF/ANSI Standard 169 – Special Purpose Food Equipment and Devices. |

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| | |
|-------------------|--|
| Input Voltage | PoE(IEEE802.3af, class3), 12VDC |
| Power Consumption | PoE: Max 12.95W, typical 11W 12VDC: Max 11W, typical 9.1W |

Mechanical

| | |
|-----------------------------------|---|
| Color / Material | Silver / Stainless(SUS316L) Bubble: Nylon dome |
| Product Dimensions / Weight | ø167.9x72.1mm(ø6.61x2.84"), 2980g(6.57 lb) |
| Compatible Conduit hole / Gangbox | single, double, 4" octagon, 4" square |
| Hanging Mount (Dome) | SBP-300HMS6 |
| Wall Mount | SBP-300WMS/WMS1 |
| Pole Mount | SBP-300PMS |
| Corner Mount | SBP-300KMS |

Certifications & Standards

| | |
|-------------|--|
| EMC | FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 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 | EN IEC 63000 IEC 60529 IP66/IP67, ISO 20653 IP6K9K, IEC 62262 IK10+ NEMA 250 type 4X NSF/ANSI Standard 169 |

DORI (EN62676-4 standard)

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|---------------------------|-----------------|
| 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) |

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CAD

Unit:mm [inch]

