# QNF-9010

12MP Network Fisheye Camera




## Key Features

- Max. 3008 x 3008 resolution
- H.265, H.264, MJPEC codec
- Original fisheye view, Single panorama, Double panorama, Quad view
- WDR 120dB, WiseStreamII
- Digital PTZ
- People counting, Heatmap
- Micro SD/SDHC/SDXC 1slot 256 GB, PoE

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| **Video** | |
| Imaging Device | 1/2.3" 12M CMOS |
| Effective Pixels | 3008(H) x 3008(V) |
| Min. Illumination | Color: 0.39 Lux (F2.2, 1/30sec) |
| Video Out | CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), 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) |
| **Operational** | |
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(Electrical) |
| Backlight Compensation | BLC, WDR, SSDR |
| Wide Dynamic Range | 120dB |
| Digital Noise Reduction | SSNR V |
| Motion Detection | 4ea, polygonal zones |
| Privacy Masking | 6ea, Rectangle zones |
| Gain Control | Low / Middle / High |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (2~1/12,000sec) |
| Video Rotation | Flip, Mirror |
| Analytics | Defocus detection, Motion detection, Tampering |
| Business Intelligence | People counting, Heatmap |
| Alarm Triggers | Analytics, Network disconnect |
| Alarm Events | File upload via FTP and e-mail<br>Notification via e-mail<br>SD/SDHC/SDXC or NAS recording at event triggers |
| **Network** | |
| Ethernet | RJ-45(10/100BASE-T) |
| Video Compression | H.265/H.264: Main/High, MJPEG |
| Resolution | Overview : 3008x3008, 640x640<br>Double panorama: 2560x1280, 1920x960, 1280x640, 1024x512, 640x320<br>Single panorama: 3200x800, 2560x640, 1920x480, 1280x320, 1024x256<br>Quad view: 2560x1920, 1920x1440, 1280x960, 1024x768, 640x480 |
| Max. Framerate | H.265/H.264:<br>Overview-Max. 30fps/25fps@3008x3008(60Hz/50Hz),<br>Double panorama-Max. 28fps/25fps@2560x1280(60Hz/50Hz)<br>Single panorama-Max. 28fps/25fps@3200x800(60Hz/50Hz)<br>MJPEG: Max. 5fps(60Hz/50Hz) |
| Smart Codec | Manual(5ea area), WiseStream Ⅱ |
| Bitrate Control | H.264/H.265: CBR or VBR<br>MJPEG: VBR |
| Streaming | Unicast(6 users) / Multicast<br>Multiple streaming(Up to 3 profiles) |

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| 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 |
| 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) |
| Edge Storage | Micro SD/SDHC/SDXC 1slot 256GB |
| Application Programming Interface | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform |
| Web Viewer | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14<br>Recommended Browser: Google Chrome<br>Supported Browser : MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only) |
| Memory | 2048MB RAM, 256MB Flash |
| **Environmental** | |
| Operating Temperature / Humidity | -10°C ~ +40°C(+14°F ~ +104°F) / Less than 90% RH |
| Storage Temperature / Humidity | -50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH |
| Certification | IP42 |
| **Electrical** | |
| Input Voltage | PoE(IEEE802.3af, Class3) |
| Power Consumption | PoE: Max 7.7W, typical 6.4W |
| **Mechanical** | |
| Color / Material | White / Plastic |
| RAL Code | RAL9003 |
| Product dimensions / weight | Ø99x49mm, 370g |
| **DORI** | |
| 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) |

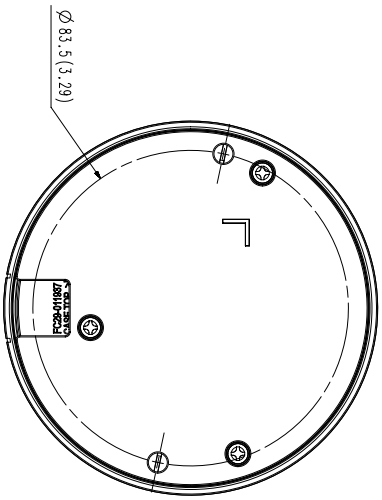
- The lastest product information / specification can be found at hanwha-security.com
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin , formerly known as Samsung Techwin.

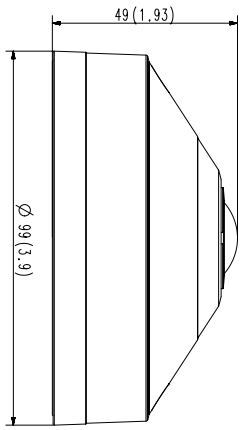
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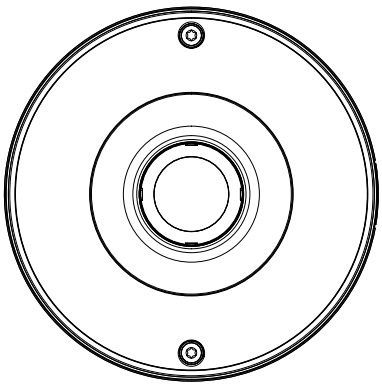
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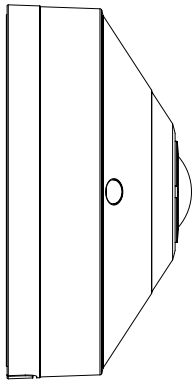
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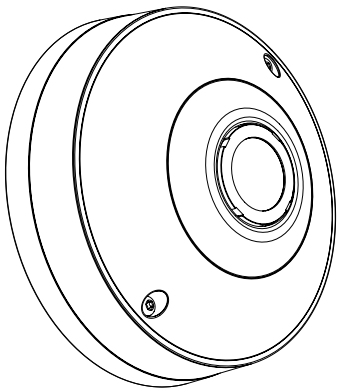
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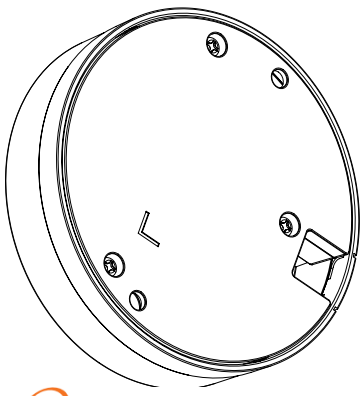








| Unit:mm(inch) | SCALE:1/1 | Hanwha Techwin | |
|---|---|---|---|
| No. | MODEL NAME | | DATE |
| 1 | QNF-8010 | | '19.09.02 |
| 2 | QNF-9010 | | '19.11.[illegible] |
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