



## QNF-9010

### Benefits

- Compact design ~40% smaller than its predecessor; now only 99mm wide!
- Cover a wider area cost-effectively
- Perfectly blends into any environment
- Business intelligence and video analytics for smarter retail (People counting, Heatmap)
- Effortless installation with PoE
- Fantastic contrast, clarity and resolution
- Reduced bandwidth with smart encoding

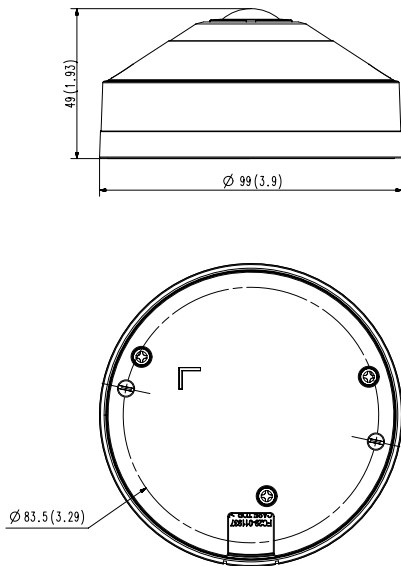
### Key Features

- Max. 3008 x 3008 resolution
- Max. 30fps@9MP
- H.265, H.264, MJPEG codec
- Original fisheye view, Single panorama, Double panorama, Quad view
- WDR 120dB, WiseStreamII
- Digital PTZ
- Micro SD/SDHC/SDXC 1slot 256 GB, PoE

| QNF-9010                  |   |
|---------------------------|---|
| <b>VIDEO</b>              |   |
| 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   |
| <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)  |
| <b>OPERATIONAL</b>        |   |
| Camera Title              | Displayed up to 85 characters   |
| Day & Night               | Auto(Electrical)  |
| Backlight Compensation    | BLC, WDR, SDR   |
| Wide Dynamic Range        | 120dB   |
| Digital Noise Reduction   | SSNRV   |
| Motion Detection          | 4ea, polygonal zones  |
| Privacy Masking           | 6ea, Rectangle zones<br>- Color: Grey/Green/Red/Blue/Black/White  |
| 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  |
| <b>NETWORK</b>            |   |
| 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@3200x800(60Hz/50Hz)<br>Single panorama-Max. 28fps/25fps@2560x1280(60Hz/50Hz)<br>MJPEG: Max. 5fps(60Hz/50Hz)                         |
| Smart Codec               | Manual(Sea area), WiseStreamII  |
| Bitrate Control           | H.264/H.265: CBR or VBR<br>MJPEG: VBR   |
| Streaming                 | Unicast(6 users) / Multicast<br>Multiple streaming(Up to 3 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  |
| 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)                                     |

## Dimensions

Unit:mm(inch)



| QNF-9010                          |  |
|-----------------------------------|--|
| 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 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.