

# QNF-9010

12MP Network Fisheye Camera



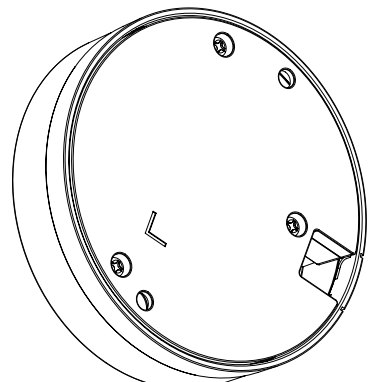
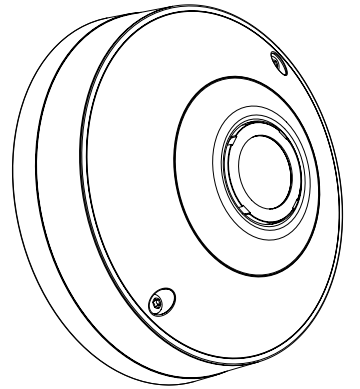
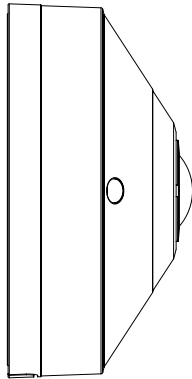
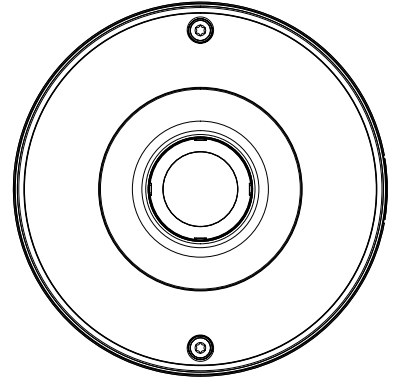
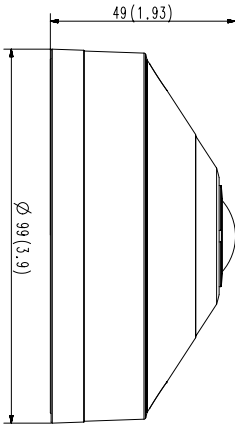
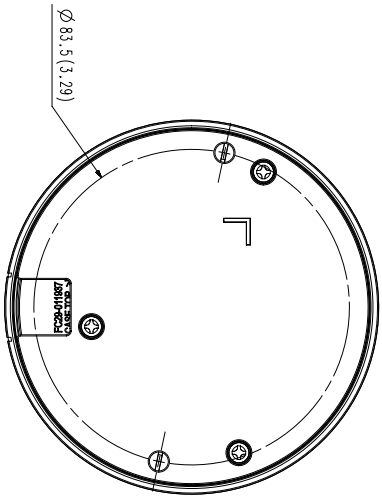
## Key Features

- Max. 3008 x 3008 resolution
- H.265, H.264, MJPEG 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

<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
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 Notification via e-mail 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 Double panorama: 2560x1280, 1920x960, 1280x640, 1024x512, 640x320 Single panorama: 3200x800, 2560x640, 1920x480, 1280x320, 1024x256 Quad view: 2560x1920, 1920x1440, 1280x960, 1024x768, 640x480
Max. Framerate	H.265/H.264: Overview-Max. 30fps/25fps@3008x3008(60Hz/50Hz), Double panorama-Max. 28fps/25fps@2560x1280(60Hz/50Hz) Single panorama-Max. 28fps/25fps@3200x800(60Hz/50Hz) MJPEG: Max. 5fps(60Hz/50Hz)
Smart Codec	Manual(5ea area), WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(6 users) / Multicast 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 Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin Root CA)
Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14 Recommended Browser: Google Chrome Supported Browser : MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	2048MB RAM, 256MB Flash
<b>Environmental</b>	
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
<b>Electrical</b>	
Input Voltage	PoE(IEEE802.3af, Class3)
Power Consumption	PoE: Max 7.7W, typical 6.4W
<b>Mechanical</b>	
Color / Material	White / Plastic
RAL Code	RAL9003
Product dimensions / weight	Ø99x49mm, 370g
<b>DORI</b>	
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.



Unit : mm ( inch )	SCALE : 1/1	Hanwha Techwin
No.	MODEL NAME	DATE
3		
2	QNF-9010	'19.11.20
1	QNF-8010	'19.09.02