



Network

# QNE-C9013RL

8MP AI Dual Light Flateye Camera



## Key Features

- Max. 8MP resolution
- 3.0 mm fixed lens
- Color: 0.034Lux (F1.6, 1/30sec)  
/ BW: 0.0034Lux (F1.6, 1/30sec, 30IRE)
- Maximum 30fps@8MP (H.265/H.264)
- Light viewable length : White LED : 30m(98.42ft), IR : 30m(98.42ft)
- Day & Night (ICR), WDR (120dB), WiseNR II (Using AI engine)
- H.265, H.264, MJPEG, WiseStreamIII (Using AI engine)
- Analytics events based on AI engine (NPU) : Object detection (Person/Vehicle - car, truck, bus, bicycle, motorcycle), Motion detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit)
- IP66/IP67, IK10
- PoE: Max 10W

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8MP AI Dual Light Flateye Camera



## Specifications

### Video

|                         |                       |                                                                                                                                                                                     |
|-------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device          | Size                  | 1/2.8"                                                                                                                                                                              |
|                         | Type                  | CMOS                                                                                                                                                                                |
| Resolution              |                       | 3840x2160, 3328x1872, 3072x1728, 2688x1520, 2592x1944, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate          | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                                                                                                                              |
|                         | MJPEG                 | 30fps(@8MP Max. 5fps)                                                                                                                                                               |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.034                                                                                                                                                                               |
|                         | BW(1/30sec, 30IRE)    | 0.0034                                                                                                                                                                              |

### Lens

|                               |            |              |
|-------------------------------|------------|--------------|
| Focal Length (mm)             |            | 3.0          |
| Max Aperture Ratio (F number) | Wide       | 1.6          |
| Angular Field of View         | Horizontal | 108°         |
|                               | Vertical   | 59°          |
|                               | Diagonal   | 127°         |
| Min. Object Distance          |            | 0.5m(1.64ft) |
| Focus Control                 |            | Fixed        |
| Lens Type                     |            | Fixed iris   |
| Mount Type                    |            | M12          |

### Pan / Tilt / Rotate

|                           |        |         |
|---------------------------|--------|---------|
| Pan / Tilt / Rotate Range | Pan    | 0°~350° |
|                           | Tilt   | 0°~75°  |
|                           | Rotate | 0°~360° |

### Operational

|                         |                |
|-------------------------|----------------|
| Day & Night             | Auto(ICR)      |
| Backlight Compensation  | BLC, WDR, SSDR |
| Wide Dynamic Range (dB) | 120            |

## Operational

|                                          |                                         |                                                                                                                                                                                                                  |
|------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Noise Reduction                  |                                         | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                           |
| Motion Detection                         | Quantity                                | 8ea                                                                                                                                                                                                              |
|                                          | Shape                                   | 8point Polygonal zones                                                                                                                                                                                           |
| Privacy Masking                          | Quantity                                | 32ea                                                                                                                                                                                                             |
|                                          | Shape                                   | 4point Quadrangle zones                                                                                                                                                                                          |
|                                          | Color / Option                          | Gray, Green, Red, Blue, Black, White                                                                                                                                                                             |
|                                          | Dynamic Privacy Masking: Color / Option | Mosaic                                                                                                                                                                                                           |
| Gain Control                             |                                         | Low, Middle, High                                                                                                                                                                                                |
| White Balance                            |                                         | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                                |
| LDC                                      |                                         | Support                                                                                                                                                                                                          |
| Electronic Shutter                       | Mode                                    | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                       |
|                                          | Speed Range                             | 1/5~1/25,000sec                                                                                                                                                                                                  |
| Video Rotation                           |                                         | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                             |
| Alarm Triggers                           |                                         | Analytics, Network disconnect, MQTT subscription                                                                                                                                                                 |
| Alarm Events When Alarm Trigger Occurred |                                         | File upload(image): e-mail/FTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,<br>MQTT: publication,Light alarm |
| Light Type                               |                                         | Warm color, IR LED                                                                                                                                                                                               |
| Light Viewable Length                    | Warm Light                              | 30m(98.42ft)                                                                                                                                                                                                     |
|                                          | IR                                      | 30m(98.42ft)                                                                                                                                                                                                     |
| IR Wavelength                            |                                         | 850nm                                                                                                                                                                                                            |

## Analytics

|                        |                    |                                                                                                                    |
|------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Classified Object Type |                    | Person, Vehicle                                                                                                    |
| Attributes             | Person             | None, Upper/Lower clothes color                                                                                    |
|                        | Vehicle            | Type(car, bus, truck, motorcycle, bicycle), Color                                                                  |
| Thumbnail              |                    | BestShot                                                                                                           |
| Analytics Events       | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection |
|                        | Normal             | Defocus detection, Tampering, Virtual area(Appear/Disappear)                                                       |
| Business Intelligence  | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting                                                       |

## Network

|                   |  |                               |
|-------------------|--|-------------------------------|
| Ethernet          |  | RJ-45(10/100BASE-T)           |
| Video Compression |  | H.265/H.264: Main/High, MJPEG |
| Smart Codec       |  | Manual, WiseStreamIII         |

## Network

|                                   |                    |                                                                                                                                                                                                                             |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                                                                                                                      |
| Streaming                         | Unicast            | Up to 20 users                                                                                                                                                                                                              |
|                                   | Multicast          | Support                                                                                                                                                                                                                     |
|                                   | Multiple Streaming | Up to 5 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              | S, G, T, M                                                                                                                                                                                                                  |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                               |
| Direct Cloud Connection           |                    | Support                                                                                                                                                                                                                     |

## Security

|                        |  |                                                                         |
|------------------------|--|-------------------------------------------------------------------------|
| OS / Firmware Protect  |  | Encrypted firmware, Secure boot, Signed firmware                        |
| User authentication    |  | Digest authentication, Prevent brute-force attack                       |
| 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         |  | SDcard partition encrypt(AES-256)                                       |

## General

|                       |                    |                                                                                                                       |
|-----------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Memory                | RAM                | 2GB                                                                                                                   |
|                       | Flash              | 1GB                                                                                                                   |
| Edge Storage          | Micro SD/SDHC/SDXC | Max. 256GB x 1slot                                                                                                    |
| Edge Storage(OnCloud) | Micro SD/SDHC/SDXC | Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording. |

## Environmental & Electrical

|                     |             |                                                                        |
|---------------------|-------------|------------------------------------------------------------------------|
| Operating Condition | Temperature | -40°C~+60°C(-40°F~+140°F)                                              |
|                     | Humidity    | 0~100% RH(condensing)                                                  |
|                     | Others      | Start up should be done at above -30°C, Humidity control with AIR vent |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F)                                              |
|                     | Humidity    | 0~95% RH(non-condensing)                                               |
| Input Voltage       |             | PoE(IEEE802.3af, Class3)                                               |
| Power Consumption   | PoE         | Max. 10.0W, typical 4.5W                                               |

## Mechanical

|                     |                            |
|---------------------|----------------------------|
| Color               | White                      |
| Material            | Aluminum                   |
| RAL Code            | RAL9003                    |
| Product Dimensions  | ø140.0x99.6mm(ø5.51x3.92") |
| Product Weight      | 790g(1.74lb)               |
| Compatible Gang Box | Single, Double, 4" Octagon |

## Certifications & Standards

|             |                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471                                                                                                                           |
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10                                                                                                               |

## DORI (EN62676-4 standard)

|                           |      |                 |
|---------------------------|------|-----------------|
| Detect (25PPM/ 8PPF)      | Wide | 55.8m(183.07ft) |
| Observe (63PPM/ 19PPF)    | Wide | 22.3m(73.23ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 11.2m(36.61ft)  |
| Identify (250PPM/ 76PPF)  | Wide | 5.6m(18.31ft)   |

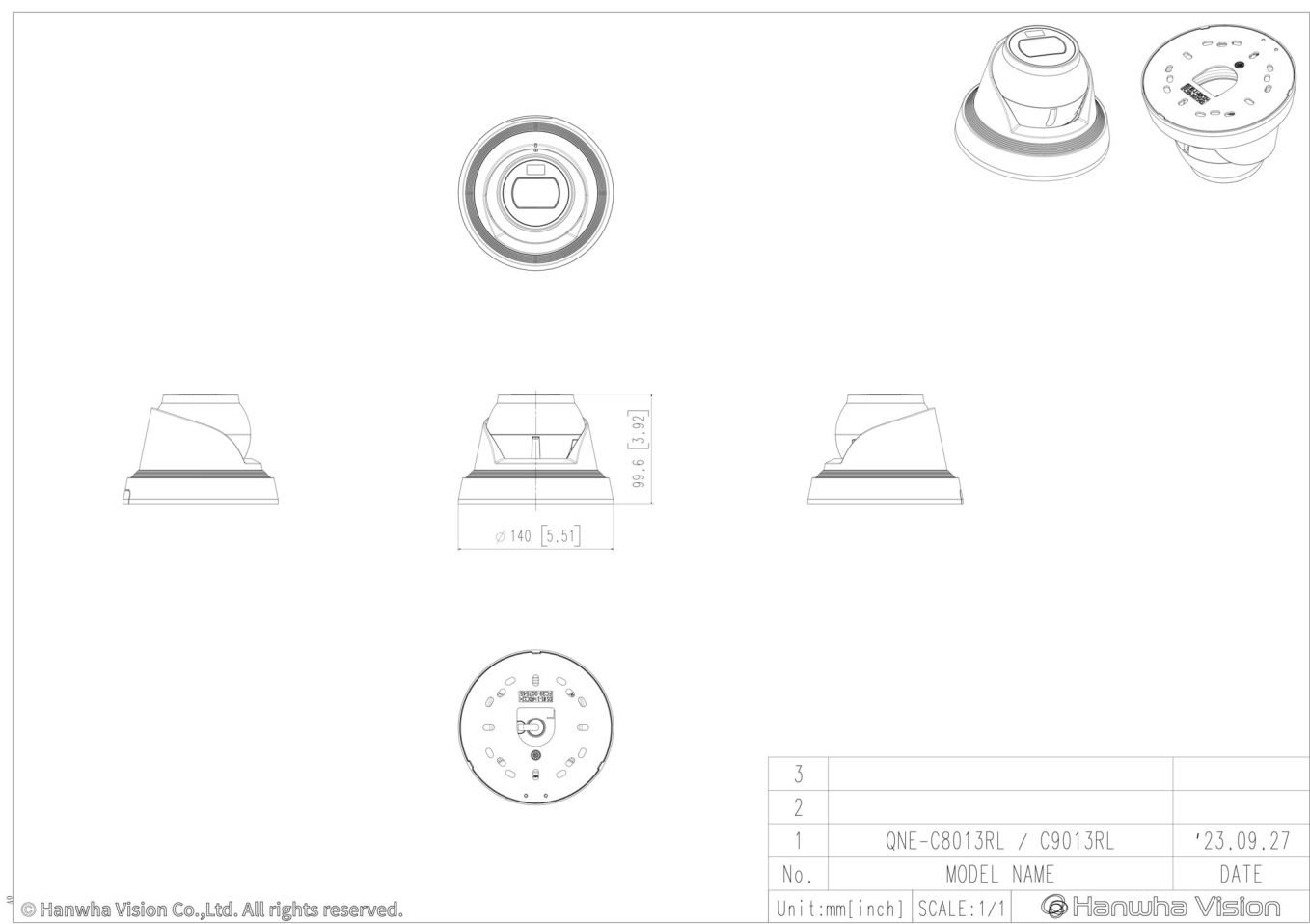
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CAD

Unit: mm [inch]



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