**Hanwha Vision**

Network | Dome

# QNE-C9013RL

8MP AI Dual Light Flateye Camera

FC | UL LISTED | CE | EAC | NDAA

## 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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# QNE-C9013RL

8MP AI Dual Light Flateye Camera

## Specifications

### Video

| | |
|---|---|
| Imaging Device | 1/2.8" CMOS |
| Resolution | 3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024,1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) (WDR on/off)<br>MJPEG: Max. 30fps(@8MP Max. 5fps) |
| Min. Illumination | Color: 0.034Lux (F1.6, 1/30sec)<br>BW: 0.0034Lux (F1.6, 1/30sec, 30IRE), 0Lux(IR LED on) |

### Lens

| | |
|---|---|
| Focal Length (Zoom Ratio) | 3.0mm fixed focal |
| Max. Aperture Ratio | F1.6 |
| Angular Field of View | H: 108°/ V: 59°/ D: 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 | 0°~350° / 0°~75° / 0°~360° |

### Operational

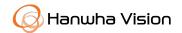| | |
|---|---|
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, WDR, SSDR |
| Wide Dynamic Range | 120dB |
| Digital Noise Reduction | WiseNR II (Based on AI engine)<br>SSNR V |
| Motion Detection | 8ea, 8point polygonal zones |
| Privacy Masking | 32ea, 4point quadrangle zones<br>- Color: Gray/Green/Red/Blue/Black/White |
| Gain Control | Low / Middle / High |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor |
| LDC | Support |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1/5~1/12,000sec) |
| Video Rotation | Flip, Mirror, Hallway view(90°/270°) |

| Analytics | Classified object type: Person/Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Attributes: Person, Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Support DetectionShot<br>Analytics events based on AI engine<br>- Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit)<br>Analytics events<br>- Defocus detection, Tampering, Virtual area(Appear/Disappear)<br><br>* Some of the video analytics only works with people and vehicle detection |
|---|---|
| Business Intelligence | Based on AI engine: People counting, Vehicle counting, Queue management, Heatmap |
| Alarm Triggers | Analytics, Network disconnect, MQTT subscription |
| Alarm Events | When alarm trigger occurred<br>- 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>- Light alarm<br>- MQTT: publication |
| Light Type | Dual light (White warm light, IR) |
| IR Viewable Length | White LED :  30m(98.42ft)<br>IR : 30m(98.42ft) |
| IR Wavelength | long-life 850 nm IR LED |

## Network

| Ethernet | RJ-45(10/100BASE-T) |
|---|---|
| Video Compression | H.265/H.264: Main/High, MJPEG |
| Smart Codec | Manual(5ea area),  WiseStreamIII(Based on AI engine) |
| Bitrate Control | H.264/H.265: CBR or VBR<br>MJPEG: VBR |
| Streaming | Unicast(20 users) / Multicast<br>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, 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/M<br>SUNAPI(HTTP API)<br>Hanwha Vision Open Platform |

## 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) |
| Access Control | IP-based access control |
| Data Protect | Encryption credentials, Encrypt compress for live recording file |
| Audit | Access / System / Event Log management |
| Device ID | Device certificate(Hanwha Vision Root CA) |
| Secure Storage | SDcard partition encrypt |

## 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 1slot 256GB |
| Memory | 2GB RAM, 1GB Flash |

## Environmental & Electrical

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| | |
|---|---|
| Operating Temperature / Humidity | -40°C~+60°C(-40°F~+140°F) / 0~100% RH<br>* Start up should be done at above -30°C<br>Humidity control /w Air sheet |
| Storage Temperature / Humidity | -50°C~+60°C(-58°F~+140°F) / 0~95% RH |
| Certification | IP66/IP67, IK10 |
| Input Voltage | PoE(IEEE802.3af, Class3) |
| Power Consumption | PoE: Max 10.0W, typical 4.5W |

## Mechanical

| | |
|---|---|
| Color / Material | White / Aluminum |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ø140.0x99.6mm(ø5.51x3.92"), 790g(1.74 lb) |
| Compatible Conduit hole / Gangbox | Conduit hole : None<br>Gangbox : Single, Double, 4" Octagon |

## Certifications & Standards

| | |
|---|---|
| EMC | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A |
| Safety | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC/EN 62471 |
| Environment | IEC/EN 63000<br>IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 |

## Compatible Models

| | |
|---|---|
| Hanging Adaptor | SBP-140HMW |
| Back Box | SBV-140BW |
| Ceiling Mount (Assy) | SBP-150CMI, SBP-300CMI, SBP-300CMW1, SBP-900CMW, SBP-300CMTW, SBP-300CMTS |
| Ceiling Mount (Single Unit) | SBP-140CMB, SBP-140CMT, SBP-180CMB, SBP-180CMS, SBP-150CMP, SBP-300CMP, SBP-900CMP, SBP-C15P, SBP-C15H |
| Wall Mount | SBP-140WMW, SBP-250WMW, SBP-300WMW, SBP-300WMW1, SBP-400WMW |
| Wall Mount Adaptor | SBP-115PFA, SBP-300BW1 |
| Pole Mount | SBD-140PMB, SBD-140PMW, SBP-300PMW2 |
| Corner Mount | SBD-140KMB, SBP-156KMW, SBP-300KMW1 |
| Parapet Mount | SBP-156LMW1, SBP-300LMW |
| Tilt Mount | SBV-140TMW |
| Cabinet | SBP-150NBW, SBP-300NBW |
| Conduit Adaptor | SBP-060BA |

## DORI (EN62676-4 standard)

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

# QNE-C9013RL

## 8MP AI Dual Light Flateye Camera

## CAD

**Unit:**mm [inch]



| 3 | | |
|---|---|---|
| 2 | | |
| 1 | QNE-C8013RL / C9013RL | '23.09.27 |
| No. | MODEL NAME | DATE |
| Unit:mm[inch] | SCALE:1/1 | Hanwha Vision |

99.6 [3.92]

ø 140 [5.51]

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