Hanwha Vision

Network   Dome

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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Specifications

Video

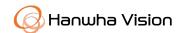|	
Imaging Device	1/2.8" CMOS
Resolution	3840x2160, 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024,1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) (WDR on/off) MJPEG: Max.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

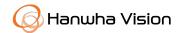|	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	WiseNR II (Based on AI engine) SSNR V
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, 4point quadrangle zones - Color: Gray/Green/Red/Blue/Black/White
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)
Digital PTZ	Support
Video Rotation	Flip, Mirror, Hallway view(90°/270°)

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Analytics	Classified object type: Person/Vehicle(Type:car/bus/truck/motorcycle/bicycle) Attributes: Person, Vehicle(Type:car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Tampering, Virtual area(Appear/Disappear) * 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 - File upload(image) : e-mail/FTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) - Light alarm - MQTT: publication
Light Type	Dual light (White warm light, IR)
IR Viewable Length	White LED : 30m(98.42ft) 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)
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Quality Level control
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast 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 SUNAPI(HTTP API) 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

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com.
Hanwha Vision is formerly known as Hanwha Techwin.

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Environmental & Electrical

Operating Temperature / Humidity	-40°C~+60°C(-40°F~+140°F) / 0~100% RH * Start up should be done at above -30°C 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 Gangbox : Single, Double, 4" Octagon

Certifications & Standards

EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 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/EN 62471
Environment	IEC/EN 63000 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

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CAD

Unit:mm [inch]

99.6 [3.92]

ø 140 [5.51]

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

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