



QNO-C9083R

8MP IR Bullet Camera

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Key features

- Max. 8MP resolution
- Max. 30fps
- Color: 0.065Lux(F1.6, 1/30sec),
BW: 0.0065Lux(F1.6, 1/30sec, 30IRE)
- Focal length: 3.2~10.2mm motorized varifocal
- H.265, H.264, MJPEG codec supported
- Multiple streaming (up to 5 profiles)
- Day & Night (ICR), WDR (120dB)
- Micro SD/SDHC/SDXC 1slot 256GB
- IR viewable length 30m
- IP66, IK10
- PoE: Max 12W

Preliminary Datasheet-2023/03/03

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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) MJPEG: Max. 30fps(@5MP Max. 5fps)
Min. Illumination	Color: 0.065Lux(F1.6, 1/30sec) BW: 0.0065Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)
Video Out	USB: Micro USB Type B, 1280x720 for installation
Lens	
Focal Length (Zoom Ratio)	3.2~10.2mm(3.2x) motorized varifocal
Max. Aperture Ratio	F1.6(Wide)~F3.1(Tele)
Angular Field of View	H: 104°(Wide)~31°(Tele) V: 55°(Wide)~17°(Tele) D: 124°(Wide)~35°(Tele)
Min. Object Distance	1.2m (3.93ft)
Focus Control	Simple focus
Lens Type	DC auto iris(IR Corrected)
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V, WiseNR II (Based on AI engine)
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, rectangular zones
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°)
Analytics	Classified object type: Person/Vehicle Attributes: 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
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Analytics, Network disconnect, Alarm input

Alarm Events	<p>When alarm trigger occurred</p> <ul style="list-style-type: none"> - File upload(image) : e-mail/FTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) - Audio clip playback
Audio In	<p>Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 25K Ohm</p>
Audio Out	Line out, Max.output level: 0.5Vrms
IR Viewable Length	30m(98.42ft)
IR LED	2ea
IR Wavelength	long-life 850 nm IR LED
Network	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/High, MJPEG
Audio Compression	<p>G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz</p>
Smart Codec	Manual(5ea area), WiseStream II
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(6 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, SRTP (TCP, UDP Unicast)
Security	<p>OS / Firmware Protect : Secure boot, Signed firmware, Firmware encryption User authentication : Digest Authentication Network authentication : 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) Secure Communication : HTTPS, WSS(Websocket secure) Access Control : IP address filtering Data Protect : Authentication information encryption, ZIP compression encryption Audit : User Access/System/Event log Device ID : Device Certificate(Hanwha Techwin Root CA, pre-installed) Secure Storage : Secure by default, CyberSecurity assurance program UL CAP (UL 2900-1)</p>
Application Programming Interface	ONVIF Profile S/G/T/M SUNAPI(HTTP API)
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	
Operating Temperature / Humidity	-30°C~+55°C(-22°F ~ +131°F) / 0~95% RH * Start up should be done at above -30°C
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 95% RH
Certification	IP66, IK10
Input Voltage	PoE(IEEE802.3af, Class3)

Power Consumption	PoE: Max 12W, typical 5.3W
Mechanical	
Color / Material	White / Aluminum
RAL Code	RAL9003
Product Dimensions / Weight	ø93.4x245.8mm(ø3.68x9.68"), 930g(2.05 lb)
Compatible Conduit hole / Gangbox	Conduit hole : None Gangbox (SBO-090GP) : Single, Double, 4" Octagon (sold separately)
Backbox	SBO-140BW
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, IEC/EN 62262 IK10
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 60.0m(196.86ft) / Tele: 276.9m(908.57ft)
Observe (63PPM/ 19PPF)	Wide: 24.2m(78.74ft) / Tele: 111.7m(363.43ft)
Recognize (125PPM/ 38PPF)	Wide: 12.0m(39.37ft) / Tele: 55.4m(181.71ft)
Identify (250PPM/ 76PPF)	Wide: 6.0m(19.69ft) / Tele: 27.7m(90.86ft)