



# QNO-C8083R

5MP IR Bullet Camera

FC

UL

CE

ERC



## Key features

- Max. 5MP resolution
- Max. 30fps
- Color: 0.15Lux(F1.6, 1/30sec), BW: 0.015Lux(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

# QNO-C8083R

## 5MP IR Bullet Camera



Video	
Imaging Device	1/2.8" CMOS
Resolution	2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 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: 0.15Lux(F1.6, 1/30sec) BW: 0.015Lux(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: 101°(Wide)~31°(Tele) V: 73°(Wide)~23°(Tele) D: 134°(Wide)~38°(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, SDDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNRV, 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	When alarm trigger occurred - 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

<b>Audio In</b>	Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 25K Ohm
<b>Audio Out</b>	Line out, Max.output level: 0.5Vrms
<b>IR Viewable Length</b>	30m(98.42ft)
<b>IR LED</b>	2ea
<b>IR Wavelength</b>	long-life 850 nm IR LED
<b>Network</b>	
<b>Ethernet</b>	RJ-45 (10/100BASE-T)
<b>Video Compression</b>	H.265/H.264: Main/High, MJPEG
<b>Audio Compression</b>	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
<b>Smart Codec</b>	Manual(5ea area), WiseStream II
<b>Video Quality Adjustment</b>	H.264/H.265: Target bitrate level control / MJPEG: Quality Level control
<b>Bitrate Control</b>	H.264/H.265: CBR or VBR / MJPEG: VBR
<b>Streaming</b>	Unicast(6 users) / Multicast / Multiple streaming(Up to 5 profiles)
<b>Protocol</b>	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)
<b>Security</b>	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)
<b>Application Programming Interface</b>	ONVIF Profile S/G/T/M SUNAPI(HTTP API)
<b>General</b>	
<b>Webpage Language</b>	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
<b>Edge Storage</b>	Micro SD/SDHC/SDXC 1 slot 256GB
<b>Memory</b>	2GB RAM, 1GB Flash
<b>Environmental &amp; Electrical</b>	
<b>Operating Temperature / Humidity</b>	-30°C~+55°C(-22°F ~ +131°F) / 0~95% RH * Start up should be done at above -30°C
<b>Storage Temperature / Humidity</b>	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 95% RH
<b>Certification</b>	IP66, IK10
<b>Input Voltage</b>	PoE(IEEE802.3af, Class3)
<b>Power Consumption</b>	PoE: Max 12W, typical 5.3W
<b>Mechanical</b>	
<b>Color / Material</b>	White / Aluminum
<b>RAL Code</b>	RAL9003
<b>Product Dimensions / Weight</b>	ø93.4x245.8mm(ø3.68x9.68"), 930g(2.05 lb)
<b>Compatible Conduit hole / Gangbox</b>	Conduit hole : None Gangbox (SBO-090GP) : Single, Double, 4" Octagon (sold separately)
<b>Backbox</b>	SBO-140BW

Certifications & Standards	
<b>EMC</b>	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
<b>Safety</b>	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
<b>Environment</b>	IEC/EN 63000 IEC/EN 60529 IP66, IEC/EN 62262 IK10
DORI (EN62676-4 standard)	
<b>Detect (25PPM/ 8PPF)</b>	Wide: 42.7m(140.20ft) /Tele: 186.9m(613.28ft)
<b>Observe (63PPM/ 19PPF)</b>	Wide: 17.2m(56.08ft) /Tele: 75.4m(245.31ft)
<b>Recognize (125PPM/ 38PPF)</b>	Wide: 8.5m(28.04ft) /Tele: 37.4m(122.66ft)
<b>Identify (250PPM/ 76PPF)</b>	Wide: 4.3m(14.02ft) /Tele: 18.7m(61.33ft)