## Q series QNO-C8083R







# QNO-C8083R

5MP AI IR Bullet Camera











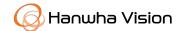
#### **Key Features**

- Max. 5MP resolution
- 3.2~10.2mm(3.2x) motorized varifocal
- Color: 0.07Lux(F1.6, 1/30sec),

BW: 0.007Lux(F1.6, 1/30sec, 30IRE)

- Maximum 30fps@5MP (H.265/H.264)
- IR viewable length 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, IK10
- PoE: Max 12W

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5MP AI IR Bullet Camera







### **Specifications**

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) (WDR on/off) MJPEG: Max. 30fps(@5MP Max. 5fps)
Min. Illumination	Color: 0.07Lux(F1.6, 1/30sec, 30IRE) BW: 0.007Lux(F1.6, 1/30sec, 30IRE), OLux(IR LED on)
Video Out	USB: Micro USB Type B, 1280x720 for installation
Long	
Lens	0.0.40.0
Focal Length (Zoom Ratio)	3.2~10.2mm(3.2x) motorized varifocal
Optical Zoom	3.2x
Max. Aperture Ratio	F1.6(Wide)~F3.1(Tele)
Angular Field of View	H: 95°(Wide)~29°(Tele) V: 69°(Wide)~21°(Tele) D: 126°(Wide)~36°(Tele)
Min. Object Distance	1.2m(3.93ft)
Focus Control	Simple focus
Lens Type	DC auto iris(IR corrected)
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / 0°~100° / 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)
Video Rotation	Flip, Mirror, Hallway view(90°/270°)

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.

# $\mathbf{Q}$ series $_{\text{QNO-C8083R}}$



Analytics  Classified object type, Person/Nehicl (Typecar/bus/truck/motorcycle/bicycle) Attributes Person (Nehicl (Typecar/bus/truck/motorcycle/bicycle) Attributes Person (Nehicla (Typecar/bus/truck/motorcycle/bicycle) Analytics events Sased on At engine Analytics events - Defocus detection. Trampering Virtual line+(Crassing/Direction), Virtual analytics events - Defocus detection Trampering Virtual area/Appear/Disappear) - *Some of the widoo analytics only works with people and vehicle detection  Business Intelligence - Based on At engine: People counting, Vehicla counting, Queue management, Heatmap - Alarm I/O - Input Lea / Output Lea - Analytics, Network disconnent, Marm input, MQTT subscription - Alarm Events - Analytics, Network disconnent, Alarm input, MQTT subscription - Alarm Events - When alarm higger cocurred - File upinoaningae): e-mail/TP - Notification: e-mail - Peocrofling: SiS/SHE/SDX or NAS recording at event triggers - Analytics, SiS/SHE/SDX or ANA recording at event triggers - Analytics, SiS/SHE/SDX or ANA recording at event triggers - Analytics, SiS/SHE/SDX or ANA recording at event triggers - Analytics, Based or Analytics, Analytics - Maria or analytic		
Business Intelligence   Based on Al engine: People counting, Vehicle counting, Queue management, Heatmap	Analytics	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)
Alarm I/O Alarm Triggers Analytics, Network disconnect, Alarm input, MQTT subscription Alarm Triggers Analytics, Network disconnect, Alarm input, MQTT subscription Alarm Events  When alarm trigger occurred - File uploadfilmage]: e-mail/FTP - Recording: \$19/50HC/SDXC or NAS recording at event triggers - Alarm output - Handover/FTZ preset, Send message by HTTP/HTTPS/TCP) - Audio (ip) playback - MQTT: publication Audio In Audio Out - Line out - Light Type - IR LED (850nm) - Light Viewable Length - 30m(98.42ft)  Network - Ethernet - RJ-45(10/1008ASE-T) - Video Compression - H, 265/H, 245-4 Main/High, MJPEG - Audio Compression - H, 265/H, 245-4 Main/High, MJPEG - Audio Compression - H, 265/H, 245-4 Main/High, MJPEG - Audio Compression - H, 265/H, 246-4 Main/High, MJPEG - Audio Compression - H, 264/H, 265-5 CBR or VBR - Manual/Sea areal, WisseStreamIII (8ased on Al engine) - H, 264/H, 265-CBR or VBR - MJPEG-VBR - Streaming - Unicast/Coueral / Multicast - Multiple streaming(Up to 5 profiles) - Protocol - Byok, Poky, Edplyp, Duplon, RTP(Upp), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP, Bonjour, LLDP, CDP, - SMTP, CMP, IGMP, SNMP-1/v2c-v3/MiB-2), ARP, DNS, DNS, QoS, UPnP	Rusiness Intelligence	
Alarm Triggers Analytics, Network disconnect, Alarm input, MQTT subscription  Alarm Events When alarm trigger occurred - File upload(image): e-mail/FP - Notification: e-mail - Recording: SD/SDM/SDXC or NAS recording at event triggers - Alarm output - Alarm outp	-	
Alarm Events    When alarm trigger occurred   - File upload(image): e-mail/FTP   - Percording: \$5/\$DHC/\$SDX or NAS recording at event triggers   - Alarm output   - Handwore(PTZ preset, Send message by HTTP/HTTPS/TCP)   - Audio clip playback   - MQTT: publication    Audio Out		
Audio Out Light Type IR LED (850nm)  Light Type IR LED (850nm)  Light Viewable Length 30m(98.42ft)  Network  Ethernet RJ-45(10/1008ASE-T)  Video Compression H.265/H.264: Main/High, MJPEG  Audio Compression G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz. G.711 isKHz. G.726: AKNps. 32KNps. 40KNps. AAC-LC: 48KNps. 32KNps. 40KNps. 40KN		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
Light Type IR LED (850nm)  Light Viewable Length 30m(98.42ft)  Network  Ethernet RJ-45(10/100BASE-T)  Video Compression H.265/H.264: Main/High, MJPEG  Audio Compression G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 KKHz G.726.14 kHz, G.726.14 kH	Audio In	Selectable(mic in/line in)
Light Viewable Length  Network  Ethernet  RJ-45(10/100BASE-T)  Video Compression  H.265/H.264: Main/High, MJPEG  Audio Compression  G.711 v-law /G.726 Selectable G.726(ADPCN) 8KHz, G.711 8KHz G.726: JAKhbps, 24Khps, 32Khps, 40Khps AAC-LC: 48Khps at 16KHz  Smart Codec  Manual(Sea area), WiseStreamIII(Based on AI engine)  Bitrate Control  H.264H.265: CBR or VBR MJPEG: VBR  Streaming  Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles)  Multiple streaming(Up to 5 profiles)  Protocol  IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTP, SSL/TLS, DHCP, FTP, SRTPITCP, UDP Unicast), MQTT  Application Programming Interface  ONVIF Profile S/G/T/M SUNAPI(HTTP AP) Hanwha Vision Open Platform Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB  Security  OS / Firmware Protect  Encrypted firmware, Secure boot, Signed firmware  User authentication  Digest Authentication, Prevent brute-force attack  Network authentication  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 ID  Device certificate(Hanwha Vision Root CA)	Audio Out	Line out
Network  Ethernet RJ-45(10/100BASE-T) Video Compression H.265/H.264: Main/High, MJPEG Audio Compression G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.721 KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz Smart Codec Manual(5ea area), WiseStreamIII(Based on AI engine)  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/P, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SMMPV1/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 SUNAP(IHTTP AP) Hamwha Vision Open Platform Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB  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, MSS(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)	Light Type	IR LED (850nm)
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Video Compression  H.265/H.264: Main/High, MJPEG  Audio Compression  G.711 u-law /G.726 Selectable G.726(ADPCM) 8kHz, G.711 8kHz G.726 Selectable G.726(ADPCM) 8kHz, G.711 8kHz G.726 Selectable		
Audio Compression  G.711 u-law /G.726 Selectable G.726(ADPCM) 8kHz, G.711 skHz G.726 (ADPCM) 8kHz, G.711 skHz G.726 (ADPCM) 8kHz, G.711 skHz G.726 (ADPCM) 8kHz, G.711 skHz G.726 (ADRCM) AGC (ABKDps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz  Smart Codec  Manual(5ea area), WiseStreamIII(Based on Al engine)  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, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SMMPU/Nz2/N3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT  Application Programming Interface  ONVIF Profile Sc/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB  Security  OS / Firmware Protect  Encrypted firmware, Secure boot, Signed firmware  User authentication  Digest Authentication, Prevent brute-force attack  Network authentication  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 ID  Device certificate(Hanwha Vision Root CA)		
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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, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SMPP1/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) Hamwha Vision Open Platform Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB  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  Data Protect  Encryption credentials, Encrypt compress for live recording file  Audit  Access / System / Event Log management  Device ID  Device certificate(Hanwha Vision Root CA)	Smart Codec	Manual (5ea area), WiseStreamIII (Based on Al engine)
Multiple streaming(Up to 5 profiles)  Protocol	Bitrate Control	
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 Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB  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)	Streaming	
SUNAPI(HTTP API) Hanwha Vision Open Platform Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB  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-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)	Protocol	SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP,
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)	Application Programming Interface	SUNAPI(HTTP API)  Hanwha Vision Open Platform
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)	Security	
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)	,	Encrypted firmware, Secure boot, Signed firmware
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)	User authentication	
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)	Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
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 Communication	HTTPS, WSS(WebSocket Secure)
Audit Access / System / Event Log management  Device ID Device certificate(Hanwha Vision Root CA)	Access Control	IP-based access control
Device ID Device certificate(Hanwha Vision Root CA)	Data Protect	Encryption credentials, Encrypt compress for live recording file
	Audit	Access / System / Event Log management
Secure Storage SDcard partition encrypt	Device ID	Device certificate(Hanwha Vision Root CA)
	Secure Storage	SDcard partition encrypt

#### General

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.

# $\mathbf{Q}_{\mathsf{series}}$ QNO-C8083R



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)  * Start up should be done at above -30°C 0~100% RH(Condensing) Humidity control /w Air vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~95% RH
Certification	IP66, IK10, NEMA4X
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)
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 NEMA 250 type 4X
Compatible Models	
Back Box	SBO-140BW, SBO-140WW
Ceiling Mount (Single Unit)	SBP-140CMT
Pole Mount	SBD-140PMW
Corner Mount	SBD-140KMB
Cabinet	SBP-150NBW
Gang Plate	SBO-090GP
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 42.7m(140.20ft) / Tele: 186.9m(613.28ft)
Observe (63PPM/ 19PPF)	Wide: 17.2m(56.08ft) / Tele: 75.4m(245.31ft)
Recognize (125PPM/ 38PPF)	Wide: 8.5m(28.04ft) / Tele: 37.4m(122.66ft)

# Q series QNO-C8083R



### QNO-C8083R

5MP AI IR Bullet Camera







CAD Unit:mm [inch]

