





# **QNV-C8011R**

5MP AI IR Micro Vandal Dome Camera











#### **Key Features**

- Max. 5MP resolution
- 3.0 mm fixed lens
- Color: 0.03Lux(F1.6, 1/30sec),

BW: 0.003Lux(F1.6, 1/30sec, 30IRE)

- Maximum 30fps@5MP (H.265/H.264)
- IR viewable length 20m (65.62ft)
- Day & Night (ICR), WDR (120dB), WiseNR II (Using AI engine)
- Hard-coated dome bubble
- 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, NEMA4X
- PoE: Max 8.5W



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### 5MP AI IR Micro Vandal Dome Camera



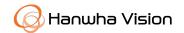




### **Specifications**

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: 0.03Lux(F1.6, 1/30sec, 30IRE) BW: 0.003Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)
Video Out	USB: Micro USB Type B, 1280x720 for installation
Lens	
Focal Length (Zoom Ratio)	3.0mm fixed focal
Max. Aperture Ratio	F1.6
Angular Field of View	H: 100°/ V: 73°/ D: 129°
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° / -35°~70° / 0°~355°
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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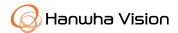
Memory	2GB RAM, 1GB Flash
Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
General	
Secure Storage	SDcard partition encrypt
Device ID	Device certificate (Hanwha Vision Root CA)
Audit	Access / System / Event Log management
Data Protect	Encryption credentials, Encrypt compress for live recording file
Access Control	IP-based access control
Secure Communication	HTTPS, WSS(WebSocket Secure)
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
User authentication	Digest Authentication, Prevent brute-force attack
OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
Security	
	SUNAPI(HTTP API) Hanwha Vision Open Platform
Application Programming Interface	SRTP(TCP, UDP Unicast), MQTT  ONVIF Profile S/G/T/M SUNABILITED ADI)
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,
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles)
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Quality Level control
Smart Codec	Manual(5ea area), WiseStreamIII(Based on Al engine)
Video Compression	H.265/H.264: Main/High, MJPEG
Ethernet	RJ-45(10/100BASE-T)
Network	
IR Wavelength	long-life 850 nm IR LED
IR Viewable Length	20m(65.62ft)
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) - MQTT: publication
Alarm Triggers	Analytics, Network disconnect, MQTT subscription
Business Intelligence	Based on Al engine: People counting, Vehicle counting, Queue management, Heatmap
	* Some of the video analytics only works with people and vehicle detection
	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)
Analytics	Classified object type: Person/Vehicle(Type:car/bus/truck/motorcycle/bicycle)

#### Environmental & Electrical

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Operating Temperature / Humidity	-40°C~+55°C(-40°F~+131°F) / 0~100% RH  * Start up should be done at above -30°C Humidity control /w Air vapor control
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 8.5W, typical 4.9W
Mechanical	
Color / Material	White / Aluminum Bubble : Hard-coated dome
RAL Code	RAL9003
Product Dimensions / Weight	ø110x77mm(ø4.33x3.03"), 522g(1.15 lb)
Compatible Conduit hole / Gangbox	SBD-110GP1: Single, Double, 4" Octagon (Sold seperately)
Certifications & Standards	F00 47 0FD 45 0 1 1 1 D Cl
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 KS C 9832 Class A , KS C 9835
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
Compatible Models	
Hanging Adaptor	SBP-120HMW
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-125WMW1, SBP-250WMW, SBP-300WMW, SBP-300WMW1, SBP-400WMW
Wall Mount Adaptor	SBP-115PFA, SBP-300BW1
Pole Mount	SBD-140PMB, SBD-140PMW, SBP-300PMW2
In-ceiling Mount	SHD-1100FW, SHD-1200FPW
Corner Mount	SBD-140KMB, SBP-156KMW, SBP-300KMW1
Parapet Mount	SBP-156LMW1, SBP-300LMW
Tilt Mount	SBV-140TMW
Cabinet	SBP-150NBW, SBP-300NBW
Gang Plate	SBD-110GP1
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	43.5m(142.71ft)
Observe (63PPM/ 19PPF)	17.5m(57.09ft)
Recognize (125PPM/ 38PPF)	8.7m(28.54ft)
Identify (250PPM/ 76PPF)	4.3m(14.27ft)



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CAD Unit:mm [inch]

