



Network

Dome

QNV-C8083R

5MP AI IR Vandal Dome 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)
- 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
- PoE: Max 12.95W

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5MP AI IR 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: 0.07Lux(F1.6, 1/30sec, 30IRE) BW: 0.007Lux(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 |
| 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°~350° / -35°~70° / 0°~355° |
| Operational | |
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, WDR, SDR |
| 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°) |

| | |
|-----------------------------------|--|
| 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 I/O | Input 1ea / Output 1ea * Alarm I/O is supported through an optional cable(SPP-C7400) |
| Alarm Triggers | Analytics, Network disconnect, Alarm input, 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 - Alarm output - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) - Audio clip playback - MQTT: publication |
| Audio In | Selectable(mic in/line in) * Audio In is supported through an optional cable(SPP-C7400) |
| Audio Out | Line out * Audio Out is supported through an optional cable(SPP-C7400) |
| Light Type | IR LED (850nm) |
| Light Viewable Length | 30m(98.42ft) |
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| 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 8KHz 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/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 |
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| 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

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|------------------|--|
| 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) / 0~100% RH(Condensing) * Start up should be done at above -30°C 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 12.95W, typical 5.3W |

Mechanical

| | |
|-----------------------------------|---|
| Color / Material | White / Aluminum Bubble : Hard-coated dome |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ø140x110.2mm(ø5.51x4.34"), 875g(1.93 lb) |
| Compatible Conduit hole / Gangbox | Conduit hole : None Gangbox : Single, Double, 4" Octagon |

Certifications & Standards

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|-------------|--|
| 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

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|-----------------------------|--|
| Hanging Adaptor | SBP-140HMW |
| Back Box | SBV-140BW, SBV-140WW |
| 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 |
| In-ceiling Mount | SHD-1400FW, SHD-1400FPW |
| Corner Mount | SBD-140KMB, SBP-156KMW, SBP-300KMW1 |
| Parapet Mount | SBP-156LMW1, SBP-300LMW |
| Tilt Mount | SBV-140TMW |
| Cabinet | SBP-150NBW, SBP-300NBW |
| Dome Cover | SPB-VAN82W |
| Conduit Adaptor | SBP-060BA |
| Other Compatible Models | SPP-C7400 |

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.

DORI (EN62676-4 standard)

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|---------------------------|--|
| 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) |
| Identify (250PPM/ 76PPF) | Wide: 4.3m(14.02ft) / Tele: 18.7m(61.33ft) |

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CAD

Unit:mm [inch]

