



Network

Dome

# QNV-C9083R

8MP IR Vandal Dome Camera



## Key Features

- Max. 8MP resolution
- Max. 30fps
- Color: 0.06Lux(F1.6, 1/30sec), BW: 0.006Lux(F1.6, 1/30sec, 30IRE)
- Focal length: 3.2~10.2mm(3.2X) motorized varifocal
- H.265, H.264, MJPEG codec supported
- Multiple streaming (up to 5 profiles)
- Day & Night (ICR), WDR (120dB)
- Micro SD/SDHC/SDXC 1 slot 256GB
- IP66, IK10
- PoE: Max 12.95W

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## Specifications

|                           |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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)<br>MJPEG: Max. 30fps(@8MP Max. 5fps)                                                                                                       |
| Min. Illumination         | Color: 0.06Lux(F1.6, 1/30sec, 30IRE)<br>BW: 0.006Lux(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)<br>V: 55°(Wide)~17°(Tele)<br>D: 124°(Wide)~35°(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, SSDR                                                                                                                                                                      |
| Wide Dynamic Range        | 120dB                                                                                                                                                                               |
| Digital Noise Reduction   | SSNR V, WiseNR II (Based on AI engine)                                                                                                                                              |
| Motion Detection          | 8ea, 8point polygonal zones                                                                                                                                                         |
| Privacy Masking           | 32ea, 4point quadrangle 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)                                                                                                                                  |
| Video Rotation            | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics                         | Classified object type: Person/Vehicle<br>Attributes: Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Support DetectionShot<br>Analytics events based on AI engine<br>- Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit)<br>Analytics events<br>- Defocus detection, Tampering, Virtual area(Appear/Disappear)<br><br>* 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<br>* Alarm I/O is supported through an optional cable(SPP-C7400)                                                                                                                                                                                                                                                                                                                                                                                 |
| Alarm Triggers                    | Analytics, Network disconnect, Alarm input                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Alarm Events                      | When alarm trigger occurred<br>- File upload(image) : e-mail/FTP<br>- Notification : e-mail<br>- Recording : SD/SDHC/SDXC or NAS recording at event triggers<br>- Alarm output<br>- Handover(PTZ preset, Send message by HTTP/HTTPS/TCP)<br>- Audio clip playback                                                                                                                                                                                                       |
| Audio In                          | Selectable(mic in/line in)<br>* Audio In is supported through an optional cable(SPP-C7400)                                                                                                                                                                                                                                                                                                                                                                              |
| Audio Out                         | Line out, Max.output level: 0.5Vrms<br>* Audio Out is supported through an optional cable(SPP-C7400)                                                                                                                                                                                                                                                                                                                                                                    |
| IR Viewable Length                | 30m(98.42ft)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| IR Wavelength                     | long-life 850 nm IR LED                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Network</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ethernet                          | RJ-45(10/100BASE-T)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Video Compression                 | H.265/H.264: Main/High, MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Audio Compression                 | G.711 u-law /G.726 Selectable<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz                                                                                                                                                                                                                                                                                                                                      |
| Smart Codec                       | Manual(5ea area), WiseStreamIII(Based on AI engine)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Bitrate Control                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Streaming                         | Unicast(20 users) / Multicast<br>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)                                                                                                                                                                                                                                                        |
| Application Programming Interface | ONVIF Profile S/G/T/M<br>SUNAPI(HTTP API)                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Security</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OS / Firmware Protect             | Secure boot, Signed firmware, Firmware encryption                                                                                                                                                                                                                                                                                                                                                                                                                       |
| User authentication               | Digest Authentication, Prevent brute-force attack                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Network authentication            | 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)                                                                                                                                                                                                                                                                                                                                                                                                             |
| Secure Communication              | HTTPS, SRTP, WSS(Websocket secure)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Access Control                    | Access control based on IP address                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Data Protect                      | Authentication information encryption, ZIP compression encryption                                                                                                                                                                                                                                                                                                                                                                                                       |
| Audit                             | User Access/System/Event log management                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Device ID                         | Device Certificate(Hanwha Private Root CA)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Secure Storage                    | SDcard partition encrypt                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Security Certificate              | Secure by default                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 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 &amp; Electrical

|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature / Humidity | -30°C~+55°C(-22°F~+131°F) / 0~95% RH(non-condensing)<br>* Start up should be done at above -30°C<br>Humidity control /w Air vent |
| Storage Temperature / Humidity   | -50°C~+60°C(-58°F~+140°F) / 0~95% RH                                                                                             |
| Certification                    | IP66, IK10                                                                                                                       |
| Input Voltage                    | PoE(IEEE802.3af, Class3)                                                                                                         |
| Power Consumption                | PoE: Max 12.95W, typical 5.3W                                                                                                    |

## Mechanical

|                                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| Color / Material                  | White / Aluminum<br>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<br>Gangbox : Single, Double, 4" Octagon |
| Hanging Mount (Dome)              | SBP-140HMM                                                  |
| Backbox                           | SBV-140BW                                                   |

## Certifications &amp; Standards

|             |                                                                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC/EN 62471                                                                                                                                  |
| Environment | IEC/EN 63000<br>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)     |

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CAD

Unit:mm [inch]

