



Network

Dome

# QNV-C6083R

2MP AI IR Vandal Dome Camera



## Key Features

- Max. 2MP resolution
- 3.2~10.2mm(3.2x) motorized varifocal
- Color: 0.04Lux (F1.6, 1/30sec),  
BW: 0.004Lux (F1.6, 1/30sec, 30IRE)
- Maximum 30fps@2MP (H.265/H.264)
- IR viewable length 40m(131.23ft)
- 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 9.8W
- HDMI Video out: 1080p@30/25fps (60/50Hz)
- HDMI out is supported through an optional cable (SPP-C1900)

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2MP AI IR Vandal Dome Camera



## Specifications

|                           |                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Video                     |                                                                                                                                                    |
| Imaging Device            | 1/2.8" CMOS                                                                                                                                        |
| Resolution                | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240                                  |
| Max. Framerate            | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) (WDR on/off)<br>MJPEG: Max. 30fps(@2MP Max. 5fps)                                                         |
| Min. Illumination         | Color: 0.04Lux (F1.6, 1/30sec)<br>BW: 0.004Lux (F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)                                                             |
| Video Out                 | USB: Micro USB Type B, 1280x720 for installation<br>HDMI: 1080p@30/25fps (60/50Hz)<br>* HDMI out is supported through an optional cable(SPP-C1900) |
| 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: 102°(Wide)~32°(Tele)<br>V: 55°(Wide)~18°(Tele)<br>D: 119°(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, SSDR                                                                                                                                     |
| Wide Dynamic Range        | 120dB                                                                                                                                              |
| Digital Noise Reduction   | WiseNR II (Based on AI engine)<br>SSNR V                                                                                                           |
| Motion Detection          | 8ea, 8point polygonal zones                                                                                                                        |
| Privacy Masking           | 32ea, 4point quadrangle zones<br>- 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 (1/5~1/25,000sec)<br>prefer shutter control                                                                       |
| Video Rotation            | Flip, Mirror, Hallway view(90°/270°)                                                                                                               |

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Hanwha Vision is formerly known as Hanwha Techwin.

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, MQTT subscription                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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<br>- MQTT: publication                                                                                                                                                                                |
| Audio In                          | Selectable(mic in/line in)<br>* Audio In is supported through an optional cable(SPP-C7400)                                                                                                                                                                                                                                                                                                                                                                              |
| Audio Out                         | Line out<br>* Audio Out is supported through an optional cable(SPP-C7400)                                                                                                                                                                                                                                                                                                                                                                                               |
| Light Type                        | IR LED (850nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Light Viewable Length             | 40m(131.23ft)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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), MQTT                                                                                                                                                                                                                                                   |
| Application Programming Interface | ONVIF Profile S/G/T/M<br>SUNAPI(HTTP API)<br>Hanwha Vision Open Platform<br>Oncloud edge recording, compatible with Hanwha Vision's Micro SD cards up to 1TB                                                                                                                                                                                                                                                                                                            |
| <b>Security</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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 & Electrical

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Operating Temperature / Humidity | -40°C~+55°C(-40°F~+131°F)<br>0~100% RH(Condensing)<br>Humidity control /w Air vent |
| Storage Temperature / Humidity   | -50°C ~ +60°C(-58°F ~ +140°F) / Less than 95% RH                                   |
| Certification                    | IP66, IK10, NEMA4X                                                                 |
| Input Voltage                    | PoE(IEEE802.3af, Class3)                                                           |
| Power Consumption                | PoE: Max 9.8W, typical 4.0W                                                        |

## Mechanical

|                                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| Color / Material                  | White / Aluminum<br>Bubble : Hard-coated dome               |
| RAL Code                          | RAL9003                                                     |
| Product Dimensions / Weight       | ø140x110.2mm(ø5.51x4.34"), 850g(1.87 lb)                    |
| Compatible Conduit hole / Gangbox | Conduit hole : None<br>Gangbox : Single, Double, 4" Octagon |

## Certifications & 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<br>NEMA 250 type 4X                                                                                                               |

## Compatible Models

|                             |                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------|
| Hanging Adaptor             | SBP-140HMMW                                                                                            |
| 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                                                                                              |

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|                         |                      |
|-------------------------|----------------------|
| Other Compatible Models | SPP-C7400, SPP-C1900 |
|-------------------------|----------------------|

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**DORI (EN62676-4 standard)**

|                      |                                                |
|----------------------|------------------------------------------------|
| Detect (25PPM/ 8PPF) | Wide: 31.1m(102.02ft) / Tele: 133.9m(439.36ft) |
|----------------------|------------------------------------------------|

|                        |                                              |
|------------------------|----------------------------------------------|
| Observe (63PPM/ 19PPF) | Wide: 12.4m(40.81ft) / Tele: 53.6m(175.74ft) |
|------------------------|----------------------------------------------|

|                           |                                            |
|---------------------------|--------------------------------------------|
| Recognize (125PPM/ 38PPF) | Wide: 6.2m(20.40ft) / Tele: 26.8m(87.87ft) |
|---------------------------|--------------------------------------------|

|                          |                                            |
|--------------------------|--------------------------------------------|
| Identify (250PPM/ 76PPF) | Wide: 3.1m(10.20ft) / Tele: 13.4m(43.94ft) |
|--------------------------|--------------------------------------------|

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CAD

Unit:mm [inch]

