



Network

Dome

# QNV-C8083R

5MP IR Vandal Dome Camera



## Key Features

- Max. 5MP resolution
- Max. 30fps
- Color: 0.07Lux(F1.6, 1/30sec), BW: 0.007Lux(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

## Compatible Devices



SBD-137WMA



SBD-140KMB



SBD-140PMB



SBD-140PMW



SBP-060BA



SBP-140CMT



SBP-140HMW



SBP-140WMW



SBV-140WW



SHD-1400FPW



SHD-1400FW



SPP-C45W

# QNV-C8083R

5MP IR Vandal Dome Camera



## Specifications

### Video

|                         |                       |                                                                                                                    |
|-------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| Imaging Device          | Size                  | 1/2.8"                                                                                                             |
|                         | Type                  | CMOS                                                                                                               |
| Resolution              |                       | 2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate          | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                                                             |
|                         | MJPEG                 | 30fps(@5MP Max. 5fps)                                                                                              |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.07                                                                                                               |
|                         | BW(1/30sec, 30IRE)    | 0.007                                                                                                              |
| Video Out               |                       | USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.                                        |

### Lens

|                               |            |                            |
|-------------------------------|------------|----------------------------|
| Focal Length (mm)             |            | 3.2~10.2                   |
| Zoom Ratio                    | Optical    | 3.2x                       |
| Max Aperture Ratio (F number) | Wide       | 1.6                        |
|                               | Tele       | 3.1                        |
| Angular Field of View         | Horizontal | 95°~29°                    |
|                               | Vertical   | 69°~21°                    |
|                               | Diagonal   | 126°~36°                   |
| 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 | Pan    | 0°~350°  |
|                           | Tilt   | -35°~70° |
|                           | Rotate | 0°~355°  |

### Operational

|                        |                |
|------------------------|----------------|
| Day & Night            | Auto(ICR)      |
| Backlight Compensation | BLC, WDR, SSDR |

## Operational

|                                          |                                         |                                                                                                                                                                                                                                       |
|------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wide Dynamic Range (dB)                  |                                         | 120                                                                                                                                                                                                                                   |
| Digital Noise Reduction                  |                                         | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                                |
| Motion Detection                         | Quantity                                | 8ea                                                                                                                                                                                                                                   |
|                                          | Shape                                   | 8point Polygonal zones                                                                                                                                                                                                                |
| Privacy Masking                          | Quantity                                | 32ea                                                                                                                                                                                                                                  |
|                                          | Shape                                   | 4point Quadrangle zones                                                                                                                                                                                                               |
|                                          | Color / Option                          | Gray, Green, Red, Blue, Black, White                                                                                                                                                                                                  |
|                                          | Dynamic Privacy Masking: Color / Option | Mosaic                                                                                                                                                                                                                                |
| Gain Control                             |                                         | Low, Middle, High                                                                                                                                                                                                                     |
| White Balance                            |                                         | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                                                     |
| LDC                                      |                                         | Support                                                                                                                                                                                                                               |
| Electronic Shutter                       | Mode                                    | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                                            |
|                                          | Speed Range                             | 1/5~1/25,000sec                                                                                                                                                                                                                       |
| Video Rotation                           |                                         | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                                  |
| Alarm Interface                          | In/Out                                  | Input 1ea, Output 1ea                                                                                                                                                                                                                 |
|                                          | Others                                  | Support alarm I/O through an optional cable                                                                                                                                                                                           |
| Alarm Triggers                           |                                         | Analytics, Network disconnect, Alarm input, MQTT subscription                                                                                                                                                                         |
| Alarm Events When Alarm Trigger Occurred |                                         | File upload(image): e-mail/FTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| Audio In                                 |                                         | Selectable(mic in/line in), Support audio cable as optional                                                                                                                                                                           |
| Audio Out                                |                                         | Line out, Support audio cable as optional                                                                                                                                                                                             |
| Light Type                               |                                         | IR LED                                                                                                                                                                                                                                |
| Light Viewable Length                    | IR                                      | 30m(98.42ft)                                                                                                                                                                                                                          |
| IR Wavelength                            |                                         | 850nm                                                                                                                                                                                                                                 |

## Analytics

|                        |                    |                                                                                                                    |
|------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Classified Object Type |                    | Person, Vehicle                                                                                                    |
| Attributes             | Person             | Upper/Lower clothes color                                                                                          |
|                        | Vehicle            | Type(car, bus, truck, motorcycle, bicycle), Color                                                                  |
| Thumbnail              |                    | BestShot                                                                                                           |
| Analytics Events       | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection |
|                        | Normal             | Defocus detection, Tampering, Virtual area(Appear/Disappear)                                                       |
| Business Intelligence  | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting                                                       |

| 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,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz                                                                                                     |
| Smart Codec                       |                    | Manual, WiseStreamIII                                                                                                                                                                                                             |
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                                                                                                                            |
| Streaming                         | Unicast            | Up to 20 users                                                                                                                                                                                                                    |
|                                   | Multicast          | Support                                                                                                                                                                                                                           |
|                                   | Multiple Streaming | Up to 5 profiles                                                                                                                                                                                                                  |
| Protocol                          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS,<br>SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS,<br>QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF              | S, G, T, M                                                                                                                                                                                                                        |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                                     |
| Direct Cloud Connection           |                    | Support                                                                                                                                                                                                                           |

| 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), SRTP                                      |
| Access Control         |  | IP-based access control                                                 |
| Data Protect           |  | Encryption credentials, Encrypt compress for live recording file export |
| Audit                  |  | Access / System / Event Log management                                  |
| Device ID              |  | Device certificate(Hanwha Vision Root CA)                               |
| Secure Storage         |  | SDcard partition encrypt(AES-256)                                       |

| General               |                    |                                                                                                                       |
|-----------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Memory                | RAM                | 2GB                                                                                                                   |
|                       | Flash              | 1GB                                                                                                                   |
| Edge Storage          | Micro SD/SDHC/SDXC | Max. 256GB x 1slot                                                                                                    |
| Edge Storage(OnCloud) | Micro SD/SDHC/SDXC | Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording. |

| Environmental & Electrical |             |                                                                        |
|----------------------------|-------------|------------------------------------------------------------------------|
| Operating Condition        | Temperature | -30°C~+55°C(-22°F~+131°F)                                              |
|                            | Humidity    | 0~100% RH(condensing)                                                  |
|                            | Others      | Start up should be done at above -30°C, Humidity control with AIR vent |

## Environmental & Electrical

|                   |             |                           |
|-------------------|-------------|---------------------------|
| Storage Condition | Temperature | -50°C~+60°C(-58°F~+140°F) |
|                   | Humidity    | 0~95% RH(non-condensing)  |
| Input Voltage     |             | PoE(IEEE802.3af, Class3)  |
| Power Consumption | PoE         | Max 12.95W, typical 5.3W  |

## Mechanical

|                     |                              |
|---------------------|------------------------------|
| Color               | White                        |
| Material            | Aluminum, Hard-coated window |
| RAL Code            | RAL9003                      |
| Product Dimensions  | ø140x110.2mm(ø5.51x4.34")    |
| Product Weight      | 875g(1.93 lb)                |
| Compatible Gang Box | Single, Double, 4" Octagon   |

## Certifications & Standards

|             |                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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 62471                                                                                                                           |
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X                                                                                                             |

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

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CAD

Unit: mm [inch]

