



Network

Dome

# QNV-C8013R

5MP AI IR Vandal Dome Camera



## Key Features

- 5MP Image Resolution
- 3mm Focal Length
- 25m IR Length
- IP66, IK10 Rated
- Max. 5MP resolution
- Color: 0.05Lux(F1.6, 1/30sec), BW: 0.005Lux(F1.6, 1/30sec, 30IRE)
- Maximum 30fps@5MP (H.265/H.264)
- IR viewable length 25m (82.02ft)
- Day & Night (ICR), WDR (120dB), WiseNR II (Using AI engine)
- H.265, H.264, MJPEG, WiseStreamIII (Using AI engine)
- Dynamic Privacy Masking (Person/Vehicle)
- Analytics events based on AI engine (NPU) :
  - Object detection (Person/Vehicle - car, truck, bus, bicycle, motorcycle),
  - Color Attribute, BestShot
  - Motion detection, Virtual line(Crossing/Direction),
  - Virtual area(Loitering/Intrusion/Enter/Exit)
- Hard-coated dome bubble/ IP66, IK10
- PoE: Max 8.1W

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5MP AI IR Vandal Dome Camera



## Specifications

### 映像

|                         |                                                                                                                    |                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------|
| Imaging Device          | サイズ                                                                                                                | 1/2.8"                 |
|                         | タイプ                                                                                                                | CMOS                   |
| 解像度                     | 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)                                                                                              | 0.05                   |
|                         | BW(1/30sec, 30IRE)                                                                                                 | 0.005                  |
| Video Out               | USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.                                        |                        |

### レンズ

|                               |              |      |
|-------------------------------|--------------|------|
| Focal Length (mm)             | 3.0          |      |
| Max Aperture Ratio (F number) | Wide         | 1.6  |
| 視野角度                          | Horizontal   | 100° |
|                               | Vertical     | 73°  |
|                               | Diagonal     | 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 | Pan  | 0°~355°  |
|                           | Tilt | -30°~75° |
|                           | 回転   | 0°~355°  |

### 技能

|                         |                |
|-------------------------|----------------|
| Day & Night             | Auto(ICR)      |
| Backlight Compensation  | BLC, WDR, SSDR |
| Wide Dynamic Range (dB) | 120            |

## 技能

|                                          |                                         |                                                                                                                                                                                                                                      |
|------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Noise Reduction                  |                                         | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                               |
| モーション検知                                  | Quantity                                | 8ea                                                                                                                                                                                                                                  |
|                                          | Shape                                   | 8point Polygonal zones                                                                                                                                                                                                               |
| Privacy Masking                          | Quantity                                | 32ea                                                                                                                                                                                                                                 |
|                                          | Shape                                   | 4point Quadrangle zones                                                                                                                                                                                                              |
|                                          | Color / Option                          | 灰色, 緑, Red, 青, 黒, 白                                                                                                                                                                                                                  |
|                                          | Dynamic Privacy Masking: Color / Option | モザイク                                                                                                                                                                                                                                 |
| ゲイン制御                                    |                                         | 低, 中, 高                                                                                                                                                                                                                              |
| ホワイトバランス                                 |                                         | ATW, AWC, 手動, 室内, 屋外                                                                                                                                                                                                                 |
| LDC                                      |                                         | サポート                                                                                                                                                                                                                                 |
| Electronic Shutter                       | モード                                     | 最小, 最大, アンチフリッカー, Prefer shutter control(Based on AI engine)                                                                                                                                                                         |
|                                          | Speed Range                             | 1/5~1/25,000sec                                                                                                                                                                                                                      |
| ビデオ回転                                    |                                         | FLIPモード, ミラー, Hallway view(90°/270°)                                                                                                                                                                                                 |
| Alarm Interface                          | In/Out                                  | Input 1ea, Output 1ea                                                                                                                                                                                                                |
|                                          | その他                                     | Support alarm I/O through an optional cable                                                                                                                                                                                          |
| Alarm Triggers                           |                                         | 分析, ネットワーク切断, アラーム入力, MQTT購読                                                                                                                                                                                                         |
| Alarm Events When Alarm Trigger Occurred |                                         | File upload(image): e-mail/FTP/SFTP,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,アラーム出力,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| オーディオ入力                                  |                                         | Selectable(mic in/line in)                                                                                                                                                                                                           |
| オーディオ出力                                  |                                         | Line out                                                                                                                                                                                                                             |
| Light Type                               |                                         | IR LED                                                                                                                                                                                                                               |
| Light Viewable Length                    | IR                                      | 25m(82.02ft)                                                                                                                                                                                                                         |
| IR Wavelength                            |                                         | 850nm                                                                                                                                                                                                                                |

## 分析

|                        |                    |                                                                 |
|------------------------|--------------------|-----------------------------------------------------------------|
| Classified Object Type |                    | 人, 車両                                                           |
| 属性                     | 人                  | Upper/Lower clothes color                                       |
|                        | 車両                 | Type(car, bus, truck, motorcycle, bicycle), カラー                 |
| サムネイル                  |                    | ベストショット                                                         |
| 分析イベント                 | Based on AI Engine | 対象物検知, 仮想線 ( 交差・方向 ), 仮想領域 ( ロータリング, 侵入, Enter, Exit ), モーション検知 |
|                        | 通常                 | 焦点ぼけ検知, タンパリング, Virtual area(Appear/Disappear)                  |
| Business Intelligence  | Based on AI Engine | 人数カウント, キュー管理, ヒートマップ, 車両カウント                                   |

## ネットワーク

|          |                     |
|----------|---------------------|
| Ethernet | RJ-45(10/100BASE-T) |
|----------|---------------------|

## ネットワーク

|                                   |                    |                                                                                                                                                                                                                                   |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 映像圧縮                              |                    | 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                       |                    | 手動, WiseStreamIII                                                                                                                                                                                                                 |
| ビットレートコントロール                      |                    | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                                                                                                                            |
| Streaming                         | Unicast            | 最大 20ユーザー                                                                                                                                                                                                                         |
|                                   | マルチキャスト            | サポート                                                                                                                                                                                                                              |
|                                   | Multiple Streaming | 最大 5プロファイル                                                                                                                                                                                                                        |
| プロトコル                             |                    | 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                                                                                                                                                                                                                        |
|                                   | その他                | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                                     |
| Direct Cloud Connection           |                    | サポート                                                                                                                                                                                                                              |

## セキュリティ

|                        |  |                                                                         |
|------------------------|--|-------------------------------------------------------------------------|
| OS / Firmware Protect  |  | Encrypted firmware, Secure boot, Signed firmware                        |
| ユーザー認証                 |  | ダイジェスト認証, 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                                  |
| デバイスID                 |  | Device certificate(Hanwha Vision Root CA)                               |
| Secure Storage         |  | SDcard partition encrypt(AES-256)                                       |

## 一般

|                       |                    |                                                                                                                       |
|-----------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| メモリ                   | RAM                | 2GB                                                                                                                   |
|                       | フラッシュ              | 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 &amp; Electrical

|      |     |                                                                        |
|------|-----|------------------------------------------------------------------------|
| 動作条件 | 温度  | -30°C~+55°C(-22°F~+131°F)                                              |
|      | 湿度  | 0~100% RH(condensing)                                                  |
|      | その他 | Start up should be done at above -30°C, Humidity control with AIR vent |
| 保管条件 | 温度  | -50°C~+60°C(-58°F~+140°F)                                              |
|      | 湿度  | 0~95% RH(non-condensing)                                               |

## Environmental & Electrical

|               |     |                          |
|---------------|-----|--------------------------|
| Input Voltage |     | PoE(IEEE802.3af, Class3) |
| 消費電力          | PoE | Max. 8.1W, typical 4.0W  |

## Mechanical

|                     |                          |
|---------------------|--------------------------|
| カラー                 | 白                        |
| 材料                  | アルミニウム                   |
| RAL Code            | RAL9003                  |
| Product Dimensions  | ø120x97.5mm(ø4.72x3.84") |
| Product Weight      | 579g(1.27 lb)            |
| Compatible Gang Box | シングル, 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, KS C 9832 Class A, KS C 9835 |
| Safety | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471                                                                                                                                                         |
| 環境     | IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10                                                                                                                                                             |

## DORI (EN62676-4 standard)

|                           |      |                 |
|---------------------------|------|-----------------|
| Detect (25PPM/ 8PPF)      | Wide | 43.5m(142.71ft) |
| Observe (63PPM/ 19PPF)    | Wide | 17.5m(57.09ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 8.7m(28.54ft)   |
| Identify (250PPM/ 76PPF)  | Wide | 4.3m(14.27ft)   |

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CAD

Unit: mm [inch]

QNV-C8013R\_C8023R OUTDOOR VANDAL CAMERA

