



Network

Купольные

# QND-7012R

4MP IR Dome Camera



## Key Features

- Maximum 4MP resolution
- Color : 0.15Lux (F2.0, 1/30sec) B/W : 0Lux (IR LED On)
- 2.8mm fixed focal
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- Hallway view (90°/270°), LDC support
- Micro SD/SDHC/SDXC memory slot (128GB)
- IR viewable length 20m (65.62ft), PoE

# QND-7012R

4MP IR Dome Camera



## Specifications

### Video

|                         |                       |                                                                                                         |
|-------------------------|-----------------------|---------------------------------------------------------------------------------------------------------|
| Imaging Device          | Size                  | 1/3"                                                                                                    |
|                         | Type                  | CMOS                                                                                                    |
| Resolution              |                       | 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate          | H.265/H.264           | 30fps/25fps(60Hz/50Hz)                                                                                  |
|                         | MJPEG                 | 15fps(@4MP Max. 2fps)                                                                                   |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.15                                                                                                    |
|                         | BW(1/30sec, 30IRE)    | 0.015                                                                                                   |
| Video Out               |                       | CVBS: 1.0 Vp-p / 75Ω composite for installation                                                         |

### Lens

|                               |            |       |
|-------------------------------|------------|-------|
| Focal Length (mm)             |            | 2.8   |
| Max Aperture Ratio (F number) | Wide       | 2.0   |
| Angular Field of View         | Horizontal | 108°  |
|                               | Vertical   | 60°   |
|                               | Diagonal   | 122°  |
| Focus Control                 |            | Fixed |

### Pan / Tilt / Rotate

|                           |        |         |
|---------------------------|--------|---------|
| Pan / Tilt / Rotate Range | Pan    | 0°~350° |
|                           | Tilt   | 0°~67°  |
|                           | Rotate | 0°~355° |

### Operational

|                         |          |                        |
|-------------------------|----------|------------------------|
| Day & Night             |          | Auto(ICR)              |
| Backlight Compensation  |          | BLC, WDR, SSDR         |
| Wide Dynamic Range (dB) |          | 120                    |
| Digital Noise Reduction |          | SSNR                   |
| Motion Detection        | Quantity | 4ea                    |
|                         | Shape    | 8point Polygonal zones |

## Operational

|                                          |             |                                                                                                                                                               |
|------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Privacy Masking                          | Quantity    | 6ea                                                                                                                                                           |
|                                          | Shape       | Rectangular zones                                                                                                                                             |
| Gain Control                             |             | Low, Middle, High                                                                                                                                             |
| White Balance                            |             | ATW, AWC, Manual, Indoor, Outdoor                                                                                                                             |
| LDC                                      |             | Support                                                                                                                                                       |
| Electronic Shutter                       | Mode        | Minimum, Maximum, Anti flicker                                                                                                                                |
|                                          | Speed Range | 1/5~1/12,000sec                                                                                                                                               |
| Video Rotation                           |             | Flip, Mirror, Hallway view(90°/270°)                                                                                                                          |
| Alarm Interface                          | In/Out      | Input 1ea, Output 1ea                                                                                                                                         |
| Alarm Triggers                           |             | Analytics, Network disconnect, Alarm input                                                                                                                    |
| 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 |
| Audio In                                 |             | Built-in mic                                                                                                                                                  |
| Light Type                               |             | IR LED                                                                                                                                                        |
| Light Viewable Length                    | IR          | 20m(65.62ft)                                                                                                                                                  |
| IR Wavelength                            |             | 850nm                                                                                                                                                         |

## Analytics

|                  |        |                                                                                                                       |
|------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| Analytics Events | Normal | Defocus detection, Motion detection, Tampering, Virtual area(Intrusion/Enter/Exit), Virtual line(Crossing, Direction) |
|------------------|--------|-----------------------------------------------------------------------------------------------------------------------|

## Network

|                                   |                    |                                                                                                                                                                                                                    |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | RJ-45(10/100BASE-T)                                                                                                                                                                                                |
| Video Compression                 |                    | H.265/H.264: Main/High, MJPEG                                                                                                                                                                                      |
| Audio Compression                 |                    | G.711 u-law /G.726 selectable, G.726(ADPCM) 8kHz, G.711 8kHz, G.726: 16kbps, 24kbps, 32kbps, 40kbps                                                                                                                |
| Smart Codec                       |                    | Manual, WiseStream II                                                                                                                                                                                              |
| Bitrate Control                   |                    | H.265/H.264: CBR or VBR,<br>MJPEG: VBR                                                                                                                                                                             |
| Streaming                         | Unicast            | Up to 6 users                                                                                                                                                                                                      |
|                                   | Multicast          | Support                                                                                                                                                                                                            |
|                                   | Multiple Streaming | Up to 3 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, SRTP(TCP, UDP Unicast), PIM-SM |
| Application Programming Interface | ONVIF              | S, G, T                                                                                                                                                                                                            |
|                                   | Others             | SUNAPI(HTTP API)                                                                                                                                                                                                   |
| Direct Cloud Connection           |                    | Optional (needs gateway)                                                                                                                                                                                           |

## Security

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| OS / Firmware Protect  | Encrypted 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                | 512MB              |
|              | Flash              | 256MB              |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 128GB x 1slot |

## Environmental & Electrical

|                     |             |                                 |
|---------------------|-------------|---------------------------------|
| Operating Condition | Temperature | -10°C~+55°C(+14°F~+131°F)       |
|                     | Humidity    | 0~95% RH(non-condensing)        |
| Storage Condition   | Temperature | -30°C~+60°C(-22°F~+140°F)       |
|                     | Humidity    | 0~95% RH(non-condensing)        |
| Input Voltage       |             | PoE(IEEE802.3af, Class3), 12VDC |
| Power Consumption   | PoE         | Max. 7.9W, typical 6.1W         |
|                     | 12VDC       | Max. 7.1W, typical 5.10W        |

## Mechanical

|                     |                            |
|---------------------|----------------------------|
| Color               | White                      |
| Material            | Plastic                    |
| RAL Code            | RAL9003                    |
| Product Dimensions  | ø110.0x86.0mm(4.33x3.39")  |
| Product Weight      | 255g(0.56lb)               |
| 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, KS C 9832 Class A, KS C 9835 |
| Safety      | UL 60950-1, CAN/CSA C22.2 NO. 60950-1, IEC 62471                                                                                                                                                         |
| Environment | IEC/EN 63000                                                                                                                                                                                             |

**DORI (EN62676-4 standard)**

|                                  |      |                 |
|----------------------------------|------|-----------------|
| <b>Detect (25PPM/ 8PPF)</b>      | Wide | 37.5m(123.17ft) |
| <b>Observe (63PPM/ 19PPF)</b>    | Wide | 15.0m(49.27ft)  |
| <b>Recognize (125PPM/ 38PPF)</b> | Wide | 7.5m(24.63ft)   |
| <b>Identify (250PPM/ 76PPF)</b>  | Wide | 3.8m(12.32ft)   |

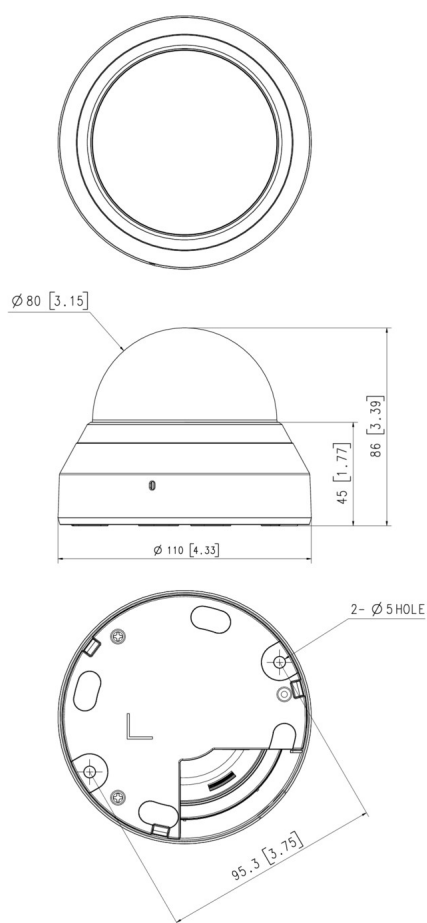
# QND-7012R

4MP IR Dome Camera



**CAD**

**Unit:** mm [inch]



QND-6012R/6022R/6032R  
UNIT : mm[inch]