Network | Dome

# QND-8080R

5M H.265 IR Dome Camera

## Key Features

- Max. 5Megapixel (2592 x 1944) resolution
- 3.2~10mm(3.1x) motorized varifocal lens
- 0.15Lux (Color), 0Lux (B/W, IR LED on)
- H.265, H.264, MJPEG codec support, Multiple streaming
- Day&Night (ICR), WDR (120dB)
- Tampering, Motion detection, Defocus detection
- Micro SD / SDHC / SDXC memory slot (Max. 128GB)
- Hallway view, WiseStream II support
- IR Viewable length 20m (65.62ft)

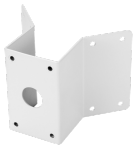
## Compatible Accessories (Optional)

SHD-1198FW

SBP-120WMW

SBP-300LMW

SBP-300WMW1



SBP-300KMW

SBP-300BW

SBP-122HMW

SBP-300PMW

SPB-INW73

SBP-300WMW

SBP-300NBW

SBP-300CMW

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5M H.265 IR Dome Camera

## Specifications

| | |
|---|---|
| **Video** | |
| Imaging Device | 1/2.8" CMOS |
| Resolution | 5MP mode : 2592x1944, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240<br>4MP mode : 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 15fps(@5MP Max. 2fps) |
| Min. Illumination | Color: 0.15Lux(F1.6, 1/30sec, 30IRE)<br>BW: 0.015Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on) |
| Video Out | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation |
| **Lens** | |
| Focal Length (Zoom Ratio) | 3.2~10mm(3.1x) motorized varifocal |
| Max. Aperture Ratio | F1.6(Wide)~F2.9(Tele) |
| Angular Field of View | H: 101°(Wide)~31°(Tele)<br>V: 73°(Wide)~23°(Tele)<br>D: 134°(Wide)~38°(Tele) |
| Focus Control | Simple focus |
| Lens Type | DC auto iris |
| **Pan / Tilt / Rotate** | |
| Pan / Tilt / Rotate Range | 0°~350° / 0°~67° / 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 |
| Motion Detection | 4ea, polygonal zones |
| Privacy Masking | 6ea, rectangular 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 | Motion detection, Tampering, Defocus detection , Virtual area(Intrusion/Enter/Exit), Virtual line(Crossing/Direction) |
| Alarm I/O | Input 1ea / Output 1ea |
| Alarm Triggers | Analytics, Network disconnect, Alarm input |

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| | |
|---|---|
| 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 |
| Light Type | IR LED (850nm) |
| Light Viewable Length | 20m(65.62ft) |

## Network

| | |
|---|---|
| Ethernet | RJ-45(10/100BASE-T) |
| Video Compression | H.265/H.264: Main/High, MJPEG |
| Smart Codec | WiseStream II |
| Video Quality Adjustment | H.264/H.265: Target bitrate level control<br>MJPEG: Quality level control |
| Bitrate Control | H.264/H.265: CBR or VBR<br>MJPEG: VBR |
| Streaming | Unicast(6 users) / Multicast<br>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 |
| Application Programming Interface | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform |

## Security

| | |
|---|---|
| OS / Firmware Protect | 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 |

## General

| | |
|---|---|
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch |
| Edge Storage | Micro SD/SDHC/SDXC 1slot 128GB |
| Memory | 512MB RAM, 256MB Flash |

## Environmental & Electrical

| | |
|---|---|
| Operating Temperature / Humidity | -10°C~+55°C(+14°F~+131°F) / 0~90% RH(non-condensing) |
| Storage Temperature / Humidity | -30°C~+60°C(-22°F~+140°F) / 0~90% RH |
| Input Voltage | PoE(IEEE802.3af, Class3) |
| Power Consumption | PoE: Max 8.90W, typical 6.60W |

## Mechanical

| | |
|---|---|
| Color / Material | White / Plastic, Aluminum |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ø120.3x102.0mm(ø4.74x4.02"), 430g(0.95 lb) |
| Hanging Mount (Dome) | SBP-122HMW |

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| DORI (EN62676-4 standard) | |
|---|---|
| Detect (25PPM/ 8PPF) | Wide: 43.3m(141.94ft) / Tele: 185.7m(609.09ft) |
| Observe (63PPM/ 19PPF) | Wide: 17.3m(56.78ft) / Tele: 74.3m(243.64ft) |
| Recognize (125PPM/ 38PPF) | Wide: 8.7m(28.39ft) / Tele: 37.1m(121.82ft) |
| Identify (250PPM/ 76PPF) | Wide: 4.3m(14.19ft) / Tele: 18.6m(60.91ft) |

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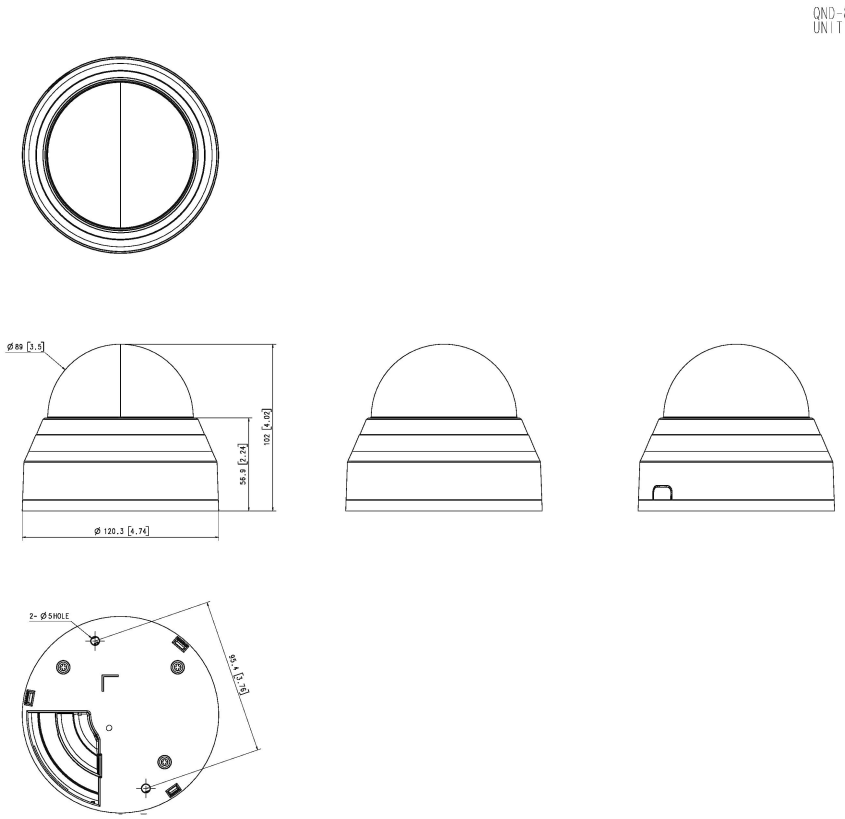
## CAD

**Unit:**mm [inch]

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