



Network

Купольные

# XND-C7083RV

4MP AI IR Dome Camera



## Key Features

- 4MP resolution
- 2.8~10mm (3.6x) motorized varifocal
- Color: 0.038 Lux (F1.4, 1/30sec, 30IRE), 0 Lux (IR LED on)
- Maximum 60 fps (H.265/H.264)
- WiseIR: IR viewable length 40 m (131.23 ft)
- Day & Night (ICR), extremeWDR (120 dB)
- Hard-coated dome bubble
- WiseNR II (Based on AI engine), WiseStreamIII (Based on AI engine)
- DIS with built-in Gyro sensor
- Analytics events based on AI engine (NPU) : Object detection (Person/Face/Vehicle - car, truck, bus, bicycle, motorcycle/License plate), IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion)
- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection
- Audio detection, Sound classification, Shock detection, Appear/Disappear
- IP52, IK08

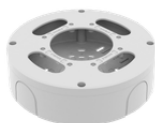
## Compatible Devices



SBP-167HMW



SBP-160HMW1



SBV-180BW



SBV-180WW



SBP-150CMI



SBP-300CMI



SBP-300CMW1



SBP-900CMW



SBP-300CMTW



SBP-300CMTS



SBP-300WMW



SBP-300WMW1



SBP-390WMW2



SBD-180PMW



SBP-300PMW2



SHD-1600FPW



SHD-1600FW



SBP-300LMW



SBP-156LMW1



SBP-300NBW



SPB-IND88W



SBP-160MMW1



SBP-300KMW1

# XND-C7083RV

4MP AI IR Dome Camera



## Specifications

| Video                         |                       |                                                                                                                                         |
|-------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | 1/2.8"                                                                                                                                  |
|                               | Type                  | CMOS                                                                                                                                    |
| Resolution                    |                       | 2592x1520, 2560x1440, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate                | H.265/H.264           | 60fps/50fps(60Hz/50Hz)(WDR off) / 30fps/25fps(60Hz/50Hz)(WDR on)                                                                        |
|                               | MJPEG                 | 30fps(@4MP Max. 5fps)                                                                                                                   |
| Min. Illumination (Lux)       | Color(1/30sec, 30IRE) | 0.038                                                                                                                                   |
|                               | BW(1/30sec, 30IRE)    | 0.0038                                                                                                                                  |
| Video Out                     |                       | USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.                                                             |
| Lens                          |                       |                                                                                                                                         |
| Focal Length (mm)             |                       | 2.8~10                                                                                                                                  |
| Zoom Ratio                    | Optical               | 3.6x                                                                                                                                    |
| Max Aperture Ratio (F number) | Wide                  | 1.4                                                                                                                                     |
|                               | Tele                  | 3.0                                                                                                                                     |
| Angular Field of View         | Horizontal            | 110°~30°                                                                                                                                |
|                               | Vertical              | 61°~17°                                                                                                                                 |
|                               | Diagonal              | 132°~35°                                                                                                                                |
| Min. Object Distance          |                       | 0.5m(1.64ft)                                                                                                                            |
| Focus Control                 |                       | Simple focus, Manual                                                                                                                    |
| Lens Type                     |                       | Adaptive P iris(IR corrected)                                                                                                           |
| Pan / Tilt / Rotate           |                       |                                                                                                                                         |
| Pan / Tilt / Rotate Range     | Pan                   | 0°~360°                                                                                                                                 |
|                               | Tilt                  | 0°~75°                                                                                                                                  |
|                               | Rotate                | 0°~355°                                                                                                                                 |
| Operational                   |                       |                                                                                                                                         |
| Day & Night                   |                       | Auto(ICR)                                                                                                                               |
| Backlight Compensation        |                       | BLC, HLC, WDR, SSDR                                                                                                                     |

## Operational

|                                          |                |                                                                                                                                                                                                                                                                                  |
|------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wide Dynamic Range (dB)                  |                | 120                                                                                                                                                                                                                                                                              |
| Digital Noise Reduction                  |                | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                                                                           |
| Digital Image Stabilization              |                | Support(built-in gyro sensor)                                                                                                                                                                                                                                                    |
| Defog                                    |                | Support                                                                                                                                                                                                                                                                          |
| Motion Detection                         | Quantity       | 8ea                                                                                                                                                                                                                                                                              |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                                                                                                                                           |
| Privacy Masking                          | Quantity       | 32ea                                                                                                                                                                                                                                                                             |
|                                          | Shape          | 4point Quadrangle zones                                                                                                                                                                                                                                                          |
|                                          | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic                                                                                                                                                                                                                                     |
| Gain Control                             |                | Off, Max gain, Manual                                                                                                                                                                                                                                                            |
| White Balance                            |                | ATW, NarrowATW, AWC, Manual, Indoor, Outdoor                                                                                                                                                                                                                                     |
| LDC                                      |                | Support(Fill/stretch mode)                                                                                                                                                                                                                                                       |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)                                                                                                                                                                                                       |
|                                          | Speed Range    | 2~1/12,000sec                                                                                                                                                                                                                                                                    |
| Video Rotation                           |                | Flip, Mirror, Hallway view(90°/270°)                                                                                                                                                                                                                                             |
| Alarm Interface                          | In/Out         | 2 configurable I/O ports                                                                                                                                                                                                                                                         |
| Alarm Triggers                           |                | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription                                                                                                                                                                                          |
| Alarm Events When Alarm Trigger Occurred |                | File upload(image): e-mail/FTP/SFTP,<br>File upload(video clip): FTP/SFTP,<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)                                                                                                                                                                                                                                                       |
| Audio Out                                |                | Line out                                                                                                                                                                                                                                                                         |
| Light Type                               |                | IR LED                                                                                                                                                                                                                                                                           |
| Light Viewable Length                    | IR             | WiseIR 40m(131.23ft)                                                                                                                                                                                                                                                             |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                                                                                            |

## Analytics

|                        |                    |                                                                                                                                     |
|------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Classified Object Type |                    | Person, Face, Vehicle, License plate                                                                                                |
| Attributes             | Vehicle            | Type(car, bus, truck, motorcycle, bicycle)                                                                                          |
| Thumbnail              |                    | DetectionShot                                                                                                                       |
| Analytics Events       | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection                  |
|                        | Normal             | Defocus detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) |
| Business Intelligence  | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting                                                                        |

## Network

|                                   |                    |                                                                                                                                                                                                                                   |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | Metal shielded RJ-45(10/100BASE-T)                                                                                                                                                                                                |
| Video Compression                 |                    | H.265/H.264: Main/Baseline/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 10 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         |  | HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256) |
| Security Certificate   |  | CyberSecurity assurance program UL CAP(UL 2900-2-3 L2)                  |

## General

|                       |                    |                                                                                                                       |
|-----------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Memory                | RAM                | 2GB                                                                                                                   |
|                       | Flash              | 512MB                                                                                                                 |
| Edge Storage          | Micro SD/SDHC/SDXC | Max. 512GB 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 | -10°C~+50°C(+14°F~+122°F)      |
|                     | Humidity    | 0~100% RH(condensing)          |
|                     | Others      | Humidity control with AIR vent |

## Environmental & Electrical

|                               |             |                                 |
|-------------------------------|-------------|---------------------------------|
| Storage Condition             | Temperature | -50°C~+60°C(-58°F~+140°F)       |
|                               | Humidity    | 0~90% RH(non-condensing)        |
| EPA(Effective Projected Area) |             | 0.02m <sup>2</sup>              |
| Input Voltage                 |             | PoE(IEEE802.3af, Class3), 12VDC |
| Power Consumption             | PoE         | Max 12.95W, typical 10.8W       |
|                               | 12VDC       | Max 12.5W, typical 10.0W        |

## Mechanical

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Color                   | White                                         |
| Material                | Aluminum, PC(Polycarbonate), Hard-coated dome |
| RAL Code                | RAL9003                                       |
| Product Dimensions      | ø160x118mm(6.30x4.65")                        |
| Product Weight          | 1,350g(2.98lb)                                |
| Compatible Conduit Hole | 12.7mm(1/2")(M20)                             |
| Compatible Gang Box     | Single, Double, 4" Octagon, Square            |

## 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                                                                                                                                                         |
| Environment | IEC/EN 63000, IEC 60529 IP52, IEC 62262 IK08                                                                                                                                                             |

## DORI (EN62676-4 standard)

|                           |      |                  |
|---------------------------|------|------------------|
| Detect (25PPM/ 8PPF)      | Wide | 36.3m(119.09ft)  |
|                           | Tele | 193.5m(634.74ft) |
| Observe (63PPM/ 19PPF)    | Wide | 14.5m(47.64ft)   |
|                           | Tele | 77.4m(253.90ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 7.3m(23.82ft)    |
|                           | Tele | 38.7m(126.95ft)  |
| Identify (250PPM/ 76PPF)  | Wide | 3.6m(11.91ft)    |
|                           | Tele | 19.3m(63.47ft)   |

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CAD

Unit: mm [inch]

