Hanwha Vision

Network   Dome

# XND-C6083RV

2MP AI IR Dome Camera

FC | UL LISTED | CE | EHC | NDAA
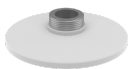
## Key Features

- 2MP resolution
- 2.8~12mm (4.3x) motorized varifocal
- Color: 0.01Lux(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 (150 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/License plate),
IVA (Virtual line/Area, Enter/Exit, Loitering, direction, intrusion)
- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection
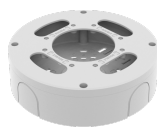Audio detection, Sound classification, Shock detection, Appear/Disappear
- IP52, IK08

## 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 |
|---|---|---|---|---|---|---|

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com.
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# X series  XND-C6083RV

# XND-C6083RV
## 2MP AI IR Dome Camera

## Specifications

### Video

| | |
|---|---|
| Imaging Device | 1/2.8" CMOS |
| Resolution | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate | H.265/H.264: Max. 60fps/50fps(60Hz/50Hz)<br>MJPEG: Max. 30fps |
| Min. Illumination | Color: 0.01Lux(F1.4, 1/30sec, 30IRE)<br>BW: 0.001Lux(F1.4, 1/30sec, 30IRE), 0Lux(IR LED on), 30/25fps<br><br>Color: 0.02Lux(F1.4, 1/60sec, 30IRE)<br>BW: 0.002Lux(F1.4, 1/60sec, 30IRE), 0Lux(IR LED on), 60/50fps |
| Video Out | USB: Micro USB Type B, 1280x720 for installation |

### Lens

| | |
|---|---|
| Focal Length (Zoom Ratio) | 2.8~12mm(4.3x) motorized varifocal |
| Max. Aperture Ratio | F1.4(Wide)~F3.6(Tele) |
| Angular Field of View | H: 120°(Wide)~27°(Tele)<br>V: 63°(Wide)~15°(Tele)<br>D: 143°(Wide)~32°(Tele) |
| Min. Object Distance | 0.5m(1.64ft) |
| Focus Control | Simple focus, Manual |
| Lens Type | DC auto iris with hall sensor(IR corrected) |

### Pan / Tilt / Rotate

| | |
|---|---|
| Pan / Tilt / Rotate Range | 0°~360° / 0°~75° / 0°~355° |

### Operational

| | |
|---|---|
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, HLC, WDR, SSDR |
| Wide Dynamic Range | extremeWDR(150dB) |
| Digital Noise Reduction | WiseNR II (Based on AI engine), SSNR V |
| Digital Image Stabilization | Support(built-in gyro sensor) |
| Defog | Support |
| Motion Detection | 8ea, 8point Polygonal zones |
| Privacy Masking | 32ea, 4point Quadrangle zones<br>- Color: Gray/Green/Red/Blue/Black/White<br>- Mosaic |
| Gain Control | Off / Max Gain / Manual |
| White Balance | ATW / NarrowATW / AWC / Manual / Indoor / Outdoor |
| LDC | Support(Fill/stretch mode) |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker(2~1/12,000sec)<br>prefer shutter control(Based on AI engine) |

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| Video Rotation | Flip, Mirror, Hallway view(90°/270°) |
| --- | --- |
| Analytics | Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle)/License plate<br>Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle)<br>Support DetectionShot<br>Analytics events based on AI engine<br>- Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection<br>Analytics events<br>- Defocus detection, Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) |
| Business Intelligence | Based on AI engine: People/Vehicle counting, Queue management, Heatmap |
| Alarm I/O | 2 configurable I/O ports |
| Alarm Triggers | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription |
| Alarm Events | When alarm trigger occurred<br>- 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<br>- Alarm output<br>- Handover: PTZ preset, send message by HTTP/HTTPS/TCP<br>- Audio clip playback<br>- MQTT: publication |
| Audio In | Selectable(mic in/line in) |
| Audio Out | Line out |
| IR Viewable Length | WiseIR 40m(131.23ft) |

## 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<br>G.726(ADPCM) 8KHz, G.711 8KHz<br>G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48Kbps at 16KHz |
| Smart Codec | Manual(5ea area), WiseStreamIII(Based on AI engine) |
| Bitrate Control | H.264/H.265: CBR or VBR<br>MJPEG: VBR |
| Streaming | Unicast(20 users) / Multicast<br>Multiple streaming(Up to 10 profiles, 3 virtual channel support) |
| Protocol | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT |
| Application Programming Interface | ONVIF Profile S/G/T/M<br>SUNAPI(HTTP API)<br>Wisenet open platform |

## Security

| OS / Firmware Protect | Encrypted Firmware, Secure boot, Signed Firmware |
| --- | --- |
| User authentication | Digest Authenticaton, Prevent brute-force attacks |
| 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 |
| Security Certificate | CyberSecurity assuarance program UL CAP(UL 2900-2-3 L2) |

## General

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| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
|---|---|
| Edge Storage | Micro SD/SDHC/SDXC 1slot Max. 512GB |
| Memory | 2GB RAM, 512MB Flash |

## Environmental & Electrical

| Operating Temperature / Humidity | -10 °C~+50 °C(14°F~+122°F) / 0~100% RH(condensing)<br>Humidity control with AIR vent |
|---|---|
| Storage Temperature / Humidity | -50°C~+60°C(-58°F~+140°F) / 0~90% RH |
| Certification | IP52, IK08 |
| Input Voltage | PoE(IEEE802.3af, Class3), 12VDC |
| Power Consumption | PoE: Max 12.95W, typical 10.8W<br>12VDC: Max 12.5W, typical 10.0W |

## Mechanical

| Color / Material | White / Aluminum + PC<br>Bubble: Hard-coated dome |
|---|---|
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ø160x118mm(ø6.30x4.65"), 1350g(2.98 lb) |
| Compatible Conduit hole / Gangbox | 12.7mm(1/2")(M20)<br>single, double, 4" octagon, 4" square |
| Hanging Mount (Dome) | SBP-160HMW1 |
| Backbox | SBV-180BW/WW |
| Ceiling Mount (Assy) | SBP-150CMI/300CMI, SBP-300CMW1/900CMW, SBP-300CMTW, SBP-300CMTS |
| Wall Mount | SBP-300WMW/WMW1, SBP-390WMW2, SBP-160WMW1 |
| Pole Mount | SBD-180PMW, SBP-300PMW2 |
| In-ceiling Mount | SHD-1600FPW/FW |
| Parapet Mount | SBP-300LMW, SBP-156LMW1 |
| Corner Mount | SBP-300KMW1 |
| Cabinet | SBP-300NBW |
| Other Compatible Models | SPB-IND88W |

## Certifications & Standards

| EMC | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A<br>KS C 9832 Class A , KS C 9835 |
|---|---|
| Safety | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC/EN 62471 |
| Environment | IEC/EN 63000<br>IEC/EN 60529 IP52, IEC/EN 62262 IK08 |

## DORI (EN62676-4 standard)

| Detect (25PPM/ 8PPF) | Wide: 22.2m(72.74ft) / Tele: 159.9m(524.76ft) |
|---|---|
| Observe (63PPM/ 19PPF) | Wide: 8.9m(29.09ft) / Tele: 64.0m(209.90ft) |
| Recognize (125PPM/ 38PPF) | Wide: 4.4m(14.55ft) / Tele: 32.0m(104.95ft) |
| Identify (250PPM/ 76PPF) | Wide: 2.2m(7.27ft) / Tele: 16.0m(52.48ft) |

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## CAD

**Unit:**mm [inch]



| 4 | XND-C6083RV | '21.01.05 |
|---|---|---|
| 3 | XND-C7083RV | '21.01.05 |
| 2 | XND-C8083RV | '21.01.05 |
| 1 | XND-C9083RV | '21.01.05 |
| No. | MODEL NAME | DATE |

Unit:mm[inch] | SCALE:1/1 | Hanwha Techwin

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