



Network

Dome

## XND-8093RV

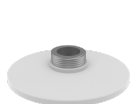
6MP AI IR Dome Camera



### Key Features

- 6MP resolution
- 10.9~29mm (2.7x) motorized varifocal
- Color: 0.06 Lux (F1.7, 1/30sec, 30IRE), 0 Lux (IR LED on)
- Maximum 30fps (H.265/H.264)
- WiseIR: IR viewable length 70m(229.66ft)
- Day & Night (ICR), extremeWDR (120 dB)
- Hard-coated dome bubble
- WiseNR II (Based on AI engine), WiseStreamIII (Based on AI engine)
- 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, IK10

### Compatible Devices



SBP-167HMW



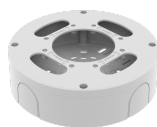
SBP-900CMW



SBP-160HWMW1



SBP-300CMTW



SBV-180BW



SBP-300CMTS



SBV-180WW



SBP-300WMW



SBP-150CMI



SBP-300WMW1



SBP-300CMI



SBP-390WMW2



SBP-300CMW1



SBP-160WMW1

## XND-8093RV

6MP AI IR Dome Camera



### Specifications

|                             |  |
|-----------------------------|--|
| Video                       |  |
| Imaging Device              | 1/1.8" CMOS  |
| Resolution                  | 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate              | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps(@6MP Max. 5fps)  |
| Min. Illumination           | Color: 0.06Lux(F1.7, 1/30sec, 30IRE)<br>BW: 0.006Lux(F1.7, 1/30sec, 30IRE), 0Lux(IR LED on)  |
| Video Out                   | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation<br>USB: Micro USB Type B, 1280x720 for installation  |
| Lens                        |  |
| Focal Length (Zoom Ratio)   | 10.9~29mm(2.7x) motorized varifocal  |
| Max. Aperture Ratio         | F1.7(Wide)~F1.73(Tele)   |
| Angular Field of View       | H: 42°(Wide)~15°(Tele)<br>V: 23°(Wide)~8°(Tele)<br>D: 49°(Wide)~17°(Tele)  |
| Min. Object Distance        | Wide: 2.5m(8.20ft), Tele: 6m(19.69ft)  |
| Focus Control               | Simple focus, Manual   |
| Lens Type                   | DC auto iris with hall sensor  |
| Pan / Tilt / Rotate         |  |
| Pan / Tilt / Rotate Range   | 0°~360° / 0°~85° / 0°~355°   |
| Operational                 |  |
| Camera Title                | Displayed up to 85 characters  |
| Day & Night                 | Auto(ICR)  |
| Backlight Compensation      | BLC, HLC, WDR, SSDR  |
| Wide Dynamic Range          | extremeWDR(120dB)  |
| 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)  |
| Video Rotation              | Flip, Mirror, Hallway view(90°/270°)   |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com).

Hanwha Vision is formerly known as Hanwha Techwin.

|                       |   |
|-----------------------|---|
| 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, DC 12V output(Max. 50mA)  |
| 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/built-in MIC)   |
| Audio Out             | Line out  |
| IR Viewable Length    | WiseIR 70m(229.66ft)  |

|                                   |  |
|-----------------------------------|--|
| Network                           |  |
| Ethernet                          | Metal shielded RJ-45(10/100/1000BASE-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 Authenticon, 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         | TPM, HTPM(Hanwha trusted platform module), SDcard partition encrypt     |
| Security Certificate   | TPM with FIPS 140-2 level 2   |

|         |  |
|---------|--|
| General |  |
|---------|--|

|                  |  |
|------------------|--|
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Edge Storage     | Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2)   |
| Memory           | 4GB RAM, 512MB Flash   |

|                                  |  |
|----------------------------------|--|
| Environmental & Electrical       |  |
| Operating Temperature / Humidity | -25°C~+50°C(-13°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, IK10   |
| Input Voltage                    | PoE+(IEEE802.3at type2, Class4), 12VDC   |
| Power Consumption                | PoE+: Max 22.5W, typical 17.9W<br>12VDC: Max 20.0W, typical 15.6W<br>Power redundancy failover |

|                                   |   |
|-----------------------------------|---|
| Mechanical                        |   |
| Color / Material                  | White / Aluminum<br>Bubble: Hard-coated dome                    |
| RAL Code                          | RAL9003   |
| Product Dimensions / Weight       | ø160x125mm(ø6.30x4.92"), 1600g(3.53 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-1350FPW   |
| Parapet Mount                     | SBP-300LMW, SBP-156LMW1   |
| Corner Mount                      | SBP-300KMW1   |
| Cabinet                           | SBP-300NBW  |
| Other Compatible Models           | SPB-IND85W  |

|                            |   |
|----------------------------|---|
| 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 IK10  |

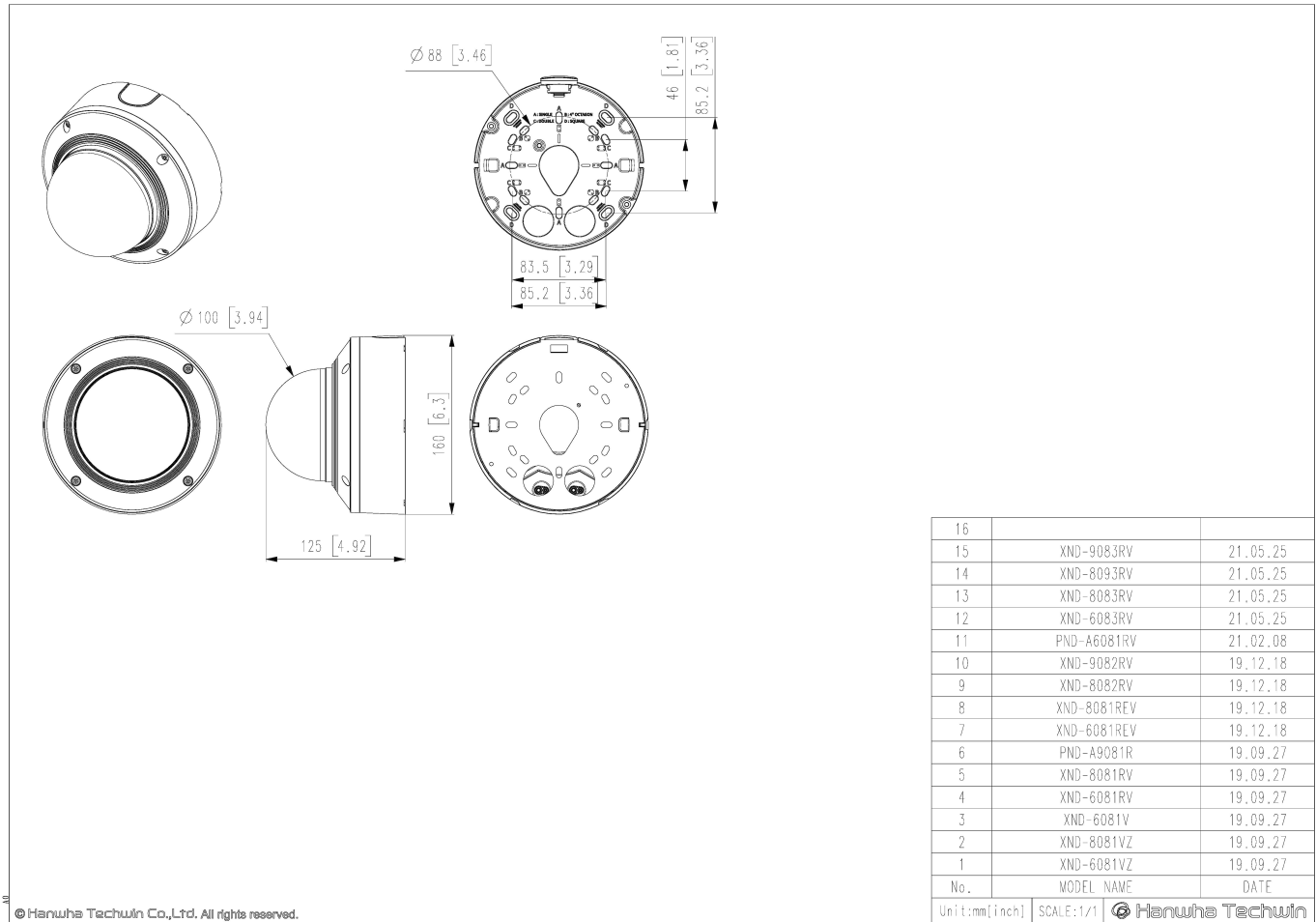
|                           |   |
|---------------------------|---|
| DORI (EN62676-4 standard) |   |
| Detect (25PPM/ 8PPF)      | Wide: 173.4m(568.88ft) / Tele: 505.6m(1,658.71ft) |
| Observe (63PPM/ 19PPF)    | Wide: 69.4m(227.55ft) / Tele: 202.2m(663.48ft)    |
| Recognize (125PPM/ 38PPF) | Wide: 34.7m(113.78ft) / Tele: 101.1m(331.74ft)    |
| Identify (250PPM/ 76PPF)  | Wide: 17.3m(56.89ft) / Tele: 50.6m(165.87ft)      |

XND-8093RV  
6MP AI IR Dome Camera



CAD

Unit:mm [inch]



© Hanwha Techwin Co.,Ltd. All rights reserved.