

PND-A9081RF

4K Network AI IR Dome Camera



Key Features

- 4K resolution
- 0.05Lux@F1.6 (Color), 0Lux (B/W, IR LED on)
- Day & Night(ICR), WDR(120dB)
- H.265, H.264, MJPEG codec, WiseStream II
- Video Analytics based on AI
 - Object detection and classification(Person, Face, Vehicle, License Plate)
 - Attribute, BestShot
- Compatible with Wisenet Retail Insight v2.0 for Business Intelligence
 - Age/gender based People counting
 - Heatmap
 - Queue management
- Modular structure for easy installation
- Requires camera firmware v1.41.03 or later to use Face Mask Detection
 - System requirements
 - Wisenet WAVE 4.1, SSM v2.10.8 or later, Genetec plugin v1.0 or later, Milestone plugin v1.0.2 or later



Accessories (Optional)



AI Plug-in



SPB-FCD85W

| Video | |
|-----------------------------|--|
| Imaging Device | 1/1.8" CMOS |
| Resolution | 3840x2160, 3072x1728, 2592x1944, 2688x1520, 2560x1440, 2048x1536, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800 x 600, 800 x 448, 720 x 576, 720x480, 640x480, 640x360 |
| Max. Framerate | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz) |
| Min. Illumination | Color: 0.05Lux(F1.6, 1/30sec) BW: 0.005Lux(F1.6, 1/30sec), 0Lux(IR LED on) |
| Video Out | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB: Micro USB Type B, 1280x720 for installation |
| Lens | |
| Focal Length (Zoom Ratio) | 4.5~10mm(2.2x) motorized varifocal |
| Max. Aperture Ratio | F1.6(Wide)~F2.65(Tele) |
| Angular Field of View | H:101.4°(Wide)~45.5°(Tele) / V:53.6°(Wide)~25.5°(Tele) / D:120.7°(Wide)~52.3°(Tele) |
| Min. Object Distance | 0.5m(1.64ft) |
| Focus Control | Simple focus |
| Lens Type | DC auto iris, P iris |
| Pan / Tilt / Rotate | |
| Pan / Tilt / Rotate Range | 0° ~360° / -45° ~85° / 0° ~355° |
| Operational | |
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, WDR, SSSDR |
| Digital Noise Reduction | SSNR V |
| Digital Image Stabilization | Stabilization Support(built-in gyro sensor) |
| Motion Detection | 8ea, polygonal zones |
| Privacy Masking | 6ea, rectangle zones - Color: Gray/Black/White |
| 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 | - Classified object type : Person/Face/Vehicle/License plate with attributes, BestShot per object - Analytics events based on AI engine : Object detection, Face mask detection, Directional detection, Digital auto tracking, Enter/Exit, Loitering, Virtual line - Analytics events : Defocus detection, Motion detection, Appear/Disappear, Tampering, Audio detection, Sound classification, Shock detection |
| Business Intelligence | People counting, Queue management, Heatmap based on AI engine |
| Alarm I/O | Input 1ea / Output 1ea / DC 12V Power(Max. 50mA) 1ea |

| | |
|---------------------------------------|--|
| Alarm Triggers | Analytics, Network disconnect, Alarm input |
| Alarm Events | File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover Audio playback |
| Audio In | Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm |
| Audio Out | Line out, Max.output level: 1Vrms |
| IR Viewable Length | 30m(98.42ft) |
| Network | |
| Ethernet | Metal shielded RJ-45(10/100/1000 BASE-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 AAC-LC: 48Kbps at 16KHz |
| Smart Codec | Manual(5ea area), WiseStream II |
| Bitrate Control | H.264/H.265: CBR or VBR MJPEG: VBR |
| Streaming | Unicast(6 users) / Multicast 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) |
| Security | HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Techwin Root CA) Secure boot |
| Application Programming Interface | ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform |
| General | |
| Webpage Language | English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Edge Storage | Micro SD/SDHC/SDXC 2 slots x 256GB each |
| Memory | 4096MB RAM, 512MB Flash |
| Environmental & Electrical | |
| Operating Temperature / Humidity | -25°C ~ +50°C (-13°F ~ +122°F) / Less than 90% RH |
| Storage Temperature / Humidity | -50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH |
| Certification | IP52, IK10, Plenum rate |
| Input Voltage | PoE+(IEEE802.3at), 12VDC |

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|-------------------|---|
| Power Consumption | PoE+: Max 20.00W, typical 16.00W 12VDC: Max 17.70W, typical 14.00W |
|-------------------|---|

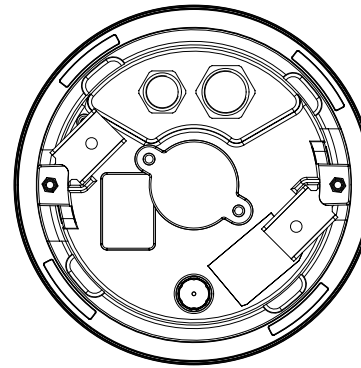
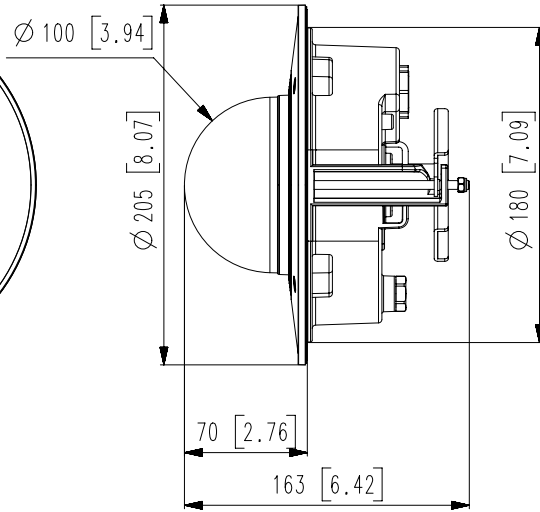
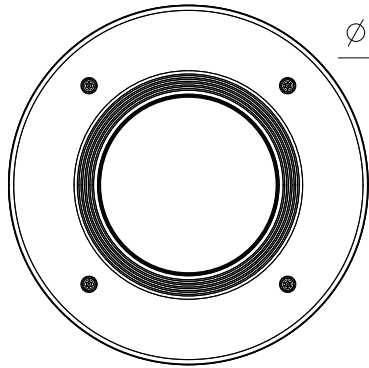
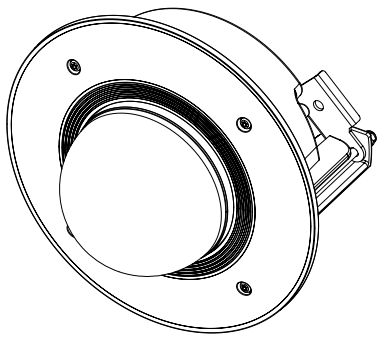
Mechanical

| | |
|-----------------------------|--|
| Color / Material | White / Aluminum |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ∅205x163mm(8.07x4.92"), Weight : 1.95Kg (4.30lb) |

DORI (EN62676-4 standard)

| | |
|---------------------------|--|
| Detect (25PPM/ 8PPF) | Wide: 62.9m(206.34ft) / Tele: 183m(600.33ft) |
| Observe (63PPM/ 19PPF) | Wide: 25.1m(82.34ft) / Tele: 73.3m(240.46ft) |
| Recognize (125PPM/ 38PPF) | Wide: 12.6m(41.33ft) / Tele: 36.6m(120.07ft) |
| Identify (250PPM/ 76PPF) | Wide: 6.3m(20.67ft) / Tele: 18.3m(60.03ft) |

- The latest product information / specification can be found at hanwhasecurity.com
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.



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| 6 | XND-9082RF | 19.12.18 |
| 5 | XND-7082RF | 19.12.18 |
| 4 | XND-6082RF | 19.12.18 |
| 3 | PND-A7081RF | 19.12.18 |
| 2 | PND-A6081RF | 19.12.18 |
| 1 | PND-A9081RF | 19.09.27 |
| No. | MODEL NAME | DATE |
| Unit:mm[inch] SCALE:1/1 | | © Hanwha Techwin |

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