

Network

# PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera

## Key Features

• Analytics events based on AI engine: Classified object (Person/Face/Vehicle/License plate)
Attributes(vehicle type: Car/Bus/Truck/Motorcycle/Bicycle)
Support BestShot
• WiseNR II , Auto prefer shutter control, WiseStreamIII, extremeWDR (120dB)
• Maximum 1920x1080 resolution
• Maximum 30fps/25fps@2MP
• Color: 0.035lux(F2.2, 1/30sec, 30IRE), 0 Lux (IR LED on)
• 3~6mm(2x) motorized varifocal, 75° tilt angle
• IR viewable length: IR 25m(82ft)
• TPM 2.0(FIPS 140-2 certified)
• IP66, NEMA4X, IK10

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# PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



## Specifications

### Video

| | | |
|---|---|---|
| **Imaging Device** | Size | 1/2.8" |
| | Type | CMOS |
| **Resolution** | | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| **Max. Framerate** | H.265/H.264 | 30fps/25fps(60Hz/50Hz) |
| | MJPEG | 30fps |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.035 |
| | BW(1/30sec, 30IRE) | 0.0035 |
| **Video Out** | | USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle. |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 3~6 |
| **Zoom Ratio** | Optical | 2x |
| **Max Aperture Ratio (F number)** | Wide | 2.2 |
| | Tele | 3.1 |
| **Angular Field of View** | Horizontal | 107°~56° |
| | Vertical | 57°~31° |
| | Diagonal | 126°~64° |
| **Min. Object Distance** | | 0.5m(1.64ft) |
| **Focus Control** | | Simple focus, Manual |
| **Lens Type** | | Fixed iris |

### Pan / Tilt / Rotate

| | | |
|---|---|---|
| **Pan / Tilt / Rotate Range** | Pan | 0°~355° |
| | Tilt | 0°~78° |
| | Rotate | 0°~180° |

### Operational

| | |
|---|---|
| **Day & Night** | Auto(ICR) |
| **Backlight Compensation** | BLC, WDR, SSDR |

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## Operational

| | | |
|---|---|---|
| **Wide Dynamic Range (dB)** | | 120 |
| **Digital Noise Reduction** | | WiseNR II (Based on AI engine), SSNR V |
| **Motion Detection** | Quantity | 8ea |
| | Shape | 8point Polygonal zones |
| **Privacy Masking** | Quantity | 6ea |
| | Shape | 4point Quadrangle zones |
| | Color / Option | Gray, Black, White |
| **Gain Control** | | Low, Middle, High |
| **White Balance** | | ATW, AWC, Manual, Indoor, Outdoor |
| **LDC** | | Support |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine) |
| | Speed Range | 1/5~1/12,000sec |
| **Video Rotation** | | Flip, Mirror, Hallway view(90°/270°) - Each channel separately |
| **Alarm Interface** | Others | Support alarm I/O via optional I/O box |
| **Alarm Triggers** | | Analytics, Network disconnect, Alarm input |
| **Alarm Events When Alarm Trigger Occurred** | | File upload(image): e-mail/FTP,<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 In** | | Support via optional I/O box |
| **Audio Out** | | Support via optional I/O box |
| **Light Type** | | IR LED |
| **Light Viewable Length** | IR | 15m(49ft), 25m(82ft) based on scene |
| **IR Wavelength** | | 850nm |

## Analytics

| | | |
|---|---|---|
| **Classified Object Type** | | Person, Face, Vehicle, License plate |
| **Attributes** | Vehicle | Type(car, bus, truck, motorcycle, bicycle) |
| **Thumbnail** | | BestShot |
| **Analytics Events** | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit) |
| | Normal | Defocus detection, Motion detection, Tampering, Audio detection, Virtual area(Appear/Disappear) |

## Network

| | |
|---|---|
| **Ethernet** | Metal shielded RJ-45(10/100/1000BASE-T) |
| **Video Compression** | H.265: Main,<br>H.264: Main/High,MJPEG |
| **Smart Codec** | Manual, WiseStreamIII |

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## Network

| | | |
|---|---|---|
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 10 users |
| | Multicast | Support |
| | Multiple Streaming | Up to 5 profiles |
| **Protocol** | | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast) |
| **Application Programming Interface** | ONVIF | S, T, M |
| | Others | SUNAPI(HTTP API), Hanwha Vision Open Platform |

## Security

| | |
|---|---|
| **OS / Firmware Protect** | Encrypted firmware, Secure boot, Signed firmware |
| **User authentication** | Digest authentication |
| **Network authentication** | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2) |
| **Secure Communication** | HTTPS, 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(Trusted platform module), SDcard partition encrypt(AES-256) |
| **Security Certificate** | TPM 2.0 with FIPS 140-2 level2 |

## 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 | -40°C~+55°C(-40°F~+131°F) |
| | Humidity | 0~95% RH(non-condensing) |
| | Others | Humidity control with AIR vent |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~95% RH(non-condensing) |
| **Input Voltage** | | PoE+(IEEE802.3at, Class4) |
| **Power Consumption** | PoE | Max. 20W, typical 15.5W |

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## Mechanical

| | |
|---|---|
| **Color** | White |
| **Material** | Aluminum |
| **RAL Code** | RAL9003 |
| **Product Dimensions** | 215(W)x135(D)x93.2(H)mm(8.46x5.31x3.67") |
| **Product Weight** | 1,330g(2.93lb) |
| **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, 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 IP66, IEC 60529 IP67, IEC 62262 IK10, NEMA 250 type 4X |

## DORI (EN62676-4 standard)

| | | |
|---|---|---|
| **Detect (25PPM/ 8PPF)** | Wide | 28.4m(93.22ft) |
| | Tele | 72.2m(236.94ft) |
| **Observe (63PPM/ 19PPF)** | Wide | 11.4m(37.29ft) |
| | Tele | 28.9m(94.78ft) |
| **Recognize (125PPM/ 38PPF)** | Wide | 5.7m(18.64ft) |
| | Tele | 14.4m(47.39ft) |
| **Identify (250PPM/ 76PPF)** | Wide | 2.8m(9.32ft) |
| | Tele | 7.2m(23.69ft) |

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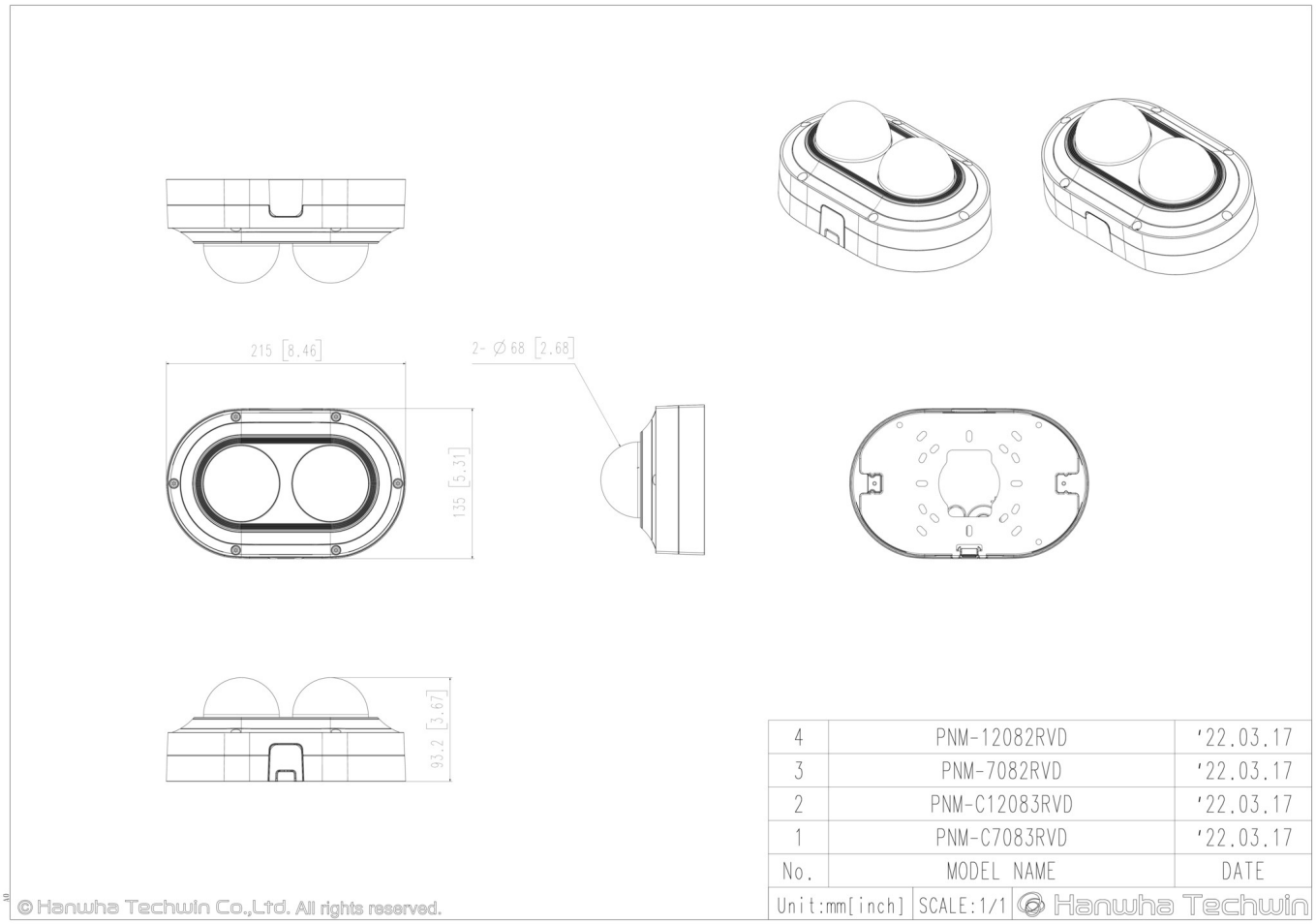
# PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



## CAD

**Unit:** mm [inch]




| No. | MODEL NAME | DATE |
|---|---|---|
| 4 | PNM-12082RVD | '22.03.17 |
| 3 | PNM-7082RVD | '22.03.17 |
| 2 | PNM-C12083RVD | '22.03.17 |
| 1 | PNM-C7083RVD | '22.03.17 |

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

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