



Network

PNM-C12083RVD

6MP 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 3328x1872 resolution
- Maximum 15fps@6M
- Color: 0.16lux(F1.67, 1/30sec, 30IRE), 0 Lux (IR LED on)
- 3.54~6.69mm motorized varifocal, 78° tilt angle
- IR viewable length: IR 25m(82ft) based on scene
- TPM 2.0(FIPS 140-2 certified)
- IP66, IK10, NEMA4X

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6MP x 2CH AI Multi-directional Camera



Specifications

Video

| | | |
|-------------------------|--|------------------------|
| Imaging Device | Size | 1/2.8" |
| | Type | CMOS |
| Resolution | 3328x1872, 3072x1728, 2688x1520, 2592x1944, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 | |
| Max. Framerate | H.265/H.264 | 15fps/15fps(60Hz/50Hz) |
| | MJPEG | 15fps |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.16 |
| | BW(1/30sec, 30IRE) | 0.016 |
| Video Out | USB: Micro USB Type B | |

Lens

| | | |
|-------------------------------|--------------|----------|
| Focal Length (mm) | 3,54~6,69 | |
| Zoom Ratio | Optical | 1.9x |
| Max Aperture Ratio (F number) | Wide | 1.67 |
| | Tele | 2.64 |
| Angular Field of View | Horizontal | 96°~47° |
| | Vertical | 51°~26° |
| | Diagonal | 113°~54° |
| Min. Object Distance | 1.5m(4.92ft) | |
| Focus Control | Simple focus | |
| 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, SDR |

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, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, 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, Virtual area(Appear/Disappear) |

Network

| | |
|--------------------------|---|
| Ethernet | Metal shielded RJ-45(10/100/1000BASE-T) |
| Video Compression | H.265/H.264: Main/Baseline/High, MJPEG |
| Smart Codec | Manual, WiseStreamIII |
| Bitrate Control | H.265/H.264: CBR or VBR, MJPEG: VBR |

Network

| | | |
|-----------------------------------|--|---|
| 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, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast) | |
| Application Programming Interface | ONVIF | S, T |
| | 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 | |
| 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 | 4GB |
| | 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) |
| 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. 21W, typical 16.5W |

Mechanical

| | | |
|----------|----------------------------|--|
| Color | White | |
| Material | Aluminum, Hard-coated dome | |

Mechanical

| | |
|-------------------------|--|
| 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 | 59.9m(196.62ft) |
| | Tele | 153.1m(502.22ft) |
| Observe (63PPM/ 19PPF) | Wide | 24.0m(78.65ft) |
| | Tele | 61.2m(200.89ft) |
| Recognize (125PPM/ 38PPF) | Wide | 12.0m(39.32ft) |
| | Tele | 30.6m(100.44ft) |
| Identify (250PPM/ 76PPF) | Wide | 6.0m(19.66ft) |
| | Tele | 15.3m(50.22ft) |

PNM-C12083RVD

6MP x 2CH AI Multi-directional Camera



CAD

Unit: mm [inch]

215 [8.46]
135 [5.31]
93.2 [3.67]
2- Ø 68 [2.68]

| | | |
|-------------------------|---------------|------------------|
| 4 | PNM-12082RVD | '22.03.17 |
| 3 | PNM-7082RVD | '22.03.17 |
| 2 | PNM-C12083RVD | '22.03.17 |
| 1 | PNM-C7083RVD | '22.03.17 |
| No. | MODEL NAME | DATE |
| Unit:mm[inch] SCALE:1/1 | | © Hanwha Techwin |

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