

Network

# PNM-C34404RQPZ

4K 4Ch PTRZ + 2MP 40x PTZ AI Camera

## Key Features

- 360° Analytics events based on AI engine: Classified object (Person/Face/Vehicle/License plate)
- 360° Attributes search (Vehicle type: Car/Bus/Truck/Motorcycle/Bicycle)
- AI based loitering detection and line crossing detection
- AI based WiseNR II , Auto prefer shutter control, WiseStreamIII
- AI based smart zoom and advanced hand over
- PTRZ remote adjustment
- New design
- Expansion of alarm/audio features
- Next level cybersecurity (TPM 2.0 with FIPS 140-2 level2)
- Reinforced durability (IP66, IK10, NEMA4X)

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## Specifications

| Video | | 1Channel | 2Channel | 3Channel | 4Channel | PTZ |
|---|---|---|---|---|---|---|
| Imaging Device | Size | 1/2.8" | | | | |
| | Type | CMOS | | | | |
| Resolution | | 3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 | | | | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate | H.265/H.264 | 15fps/15fps(60Hz/50Hz) | | | | 60fps/50fps(60Hz/50Hz) |
| | MJPEG | 15fps(@8MP Max. 5fps) | | | | 30fps |
| | Others | Max. 20fps when AI off(MJPEG@8MP Max. 5fps) | | | | |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.1 | | | | 0.05 |
| | BW(1/30sec, 30IRE) | 0.01 | | | | 0.005 |

## Lens

| | | | | | | |
|---|---|---|---|---|---|---|
| Focal Length (mm) | | 3.3~5.7 | | | 3.3~5.7mm | 4.25~170 |
| Zoom Ratio | Optical | 1.7x | | 1.7x | | 40x |
| | Digital | | | | | 32x |
| Max Aperture Ratio (F number) | Wide | 1.5 | | | | 1.6 |
| | Tele | 1.9 | | | | 4.95 |
| Angular Field of View | Horizontal | 109°~56° | | | | 65.66°~1.88° |
| | Vertical | 55°~31° | | | | 39.40°~1.09° |
| | Diagonal | 136°~65° | | | | |
| Min. Object Distance | | 1.3m(4.27ft) | | | | 5m(16.4ft) |
| Focus Control | | Simple focus | | | | Oneshot AF, Focus save |
| Lens Type | | Fixed iris | | | | DC auto iris |

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## Pan / Tilt / Rotate

| | | | | | | |
|---|---|---|---|---|---|---|
| **Pan / Tilt / Rotate Range** | Pan | 0°~360° | | | | 360° Endless |
| | Tilt | 9°~65° | | | | 0°~110° |
| | Rotate | 0°~90° | | | | |
| | Others | Remote adjustment(Max. 200cycles), Tilt angle with Shield IR: 40°~65° | | | | |
| **Pan Speed** | Preset | | | | | Max. 700°/sec |
| | Manual | | | | | 0.024°/sec~250°/sec |
| **Tilt Speed** | Preset | | | | | Max. 500°/sec |
| | Manual | | | | | 0.024°/sec~250°/sec |
| **Sequence** | | | | | | Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule |
| **Preset Accuracy** | | | | | | Up to ±0.1°, Pan/Tilt correction |

## Operational

| | | | | | | |
|---|---|---|---|---|---|---|
| **Direction Indicator** | | | | | | Support |
| **Day & Night** | | Auto(ICR) | | | | |
| **Backlight Compensation** | | BLC, WDR, SSDR | | | | BLC, HLC, WDR, SSDR |
| **Wide Dynamic Range (dB)** | | 120 | | | | 150 |
| **Digital Noise Reduction** | | WiseNR II (Based on AI engine), SSNR V | | | | |
| **Digital Image Stabilization** | | | | | | Support(built-in gyro sensor) |
| **Defog** | | | | | | Support |
| **Motion Detection** | Quantity | 8ea | | | | |
| | Shape | 8point Polygonal zones | | | | |
| **Privacy Masking** | Quantity | 6ea | | | | 32ea |
| | Shape | Rectangular zones | | | | 4point Quadrangle zones |
| | Color / Option | Gray, Black, White | | | | Gray, Green, Red, Blue, Black, White, Mosaic |
| **Gain Control** | | Low, Middle, High | | | | Off, Max gain, Manual |
| **White Balance** | | ATW, AWC, Manual, Indoor, Outdoor | | | | ATW, NarrowATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium |
| **LDC** | | Support | | | | |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine) | | | | |
| | Speed Range | 2~1/12,000sec | | | | |

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## Operational

| | | | | | | |
|---|---|---|---|---|---|---|
| **Video Rotation** | | Flip, Mirror, Hallway view(90°/270°) - Each channel separately | | | | Flip&Mirror |
| **Alarm Interface** | Others | Support alarm I/O via optional I/O box | | | | |
| **Alarm Triggers** | | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription | | | | |
| **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,<br>MQTT: publication,Smart zoom | | | | |
| **Audio In** | | Support via optional I/O box | | | | |
| **Audio Out** | | Support via optional I/O box | | | | |
| **Light Type** | | IR LED | | | | |
| **Light Viewable Length** | IR | 20m(65.62ft) | | | | 200m(656.17ft) |
| **IR Wavelength** | | 850nm | | | | |
| **Water Removal** | | | | | | Support(Spin Dry, Lens heater) |
| **Auto Tracking** | | | | | | Object auto tracking(Person/Vehicle), Target lock tracking |

## Analytics

| | | | |
|---|---|---|---|
| **Classified Object Type** | | Person, Face, Vehicle, License plate | |
| **Attributes** | Person | Upper/Lower clothes color | |
| | Vehicle | Type(car, bus, truck, motorcycle, bicycle), Color | |
| **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) | Motion detection, Tampering, Fog detection, Virtual area(Appear/Disappear), Virtual line(Crossing, Direction) |

## Network

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

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## Network

| | | | |
|---|---|---|---|
| **Streaming** | Unicast | Up to 10 users | Up to 20 users |
| | Multicast | Support | |
| | Multiple Streaming | Up to 3 profiles | Up to 10 profiles |
| **Application Programming Interface** | ONVIF | S, G, T, M | |
| | 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, 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(Trusted platform module), SDcard partition encrypt(AES-256) |
| **Security Certificate** | Consumer IoT Security Standard (ETSI EN 303 645), Security Built-in Process Certification (IEC 62443-4-1) |

## General

| | | | |
|---|---|---|---|
| **SoC** | Type | Wisenet 7 + CV5 | |
| **Memory** | RAM | 8GB | 4GB |
| | Flash | 1GB | 512MB |
| **Edge Storage** | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB) | |
| **Edge Storage(On Cloud)** | Micro SD/SDHC/SDXC | Max. 1TB x 2slots (Total 2TB) *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording. | |

## Environmental & Electrical

| | | |
|---|---|---|
| **Operating Condition** | Temperature | -40°C~+50°C(-40°F~+122°F) |
| | Humidity | 0~95% RH(non-condensing) |
| | Others | +74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Start up should be done at above -30°C |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |



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## Environmental & Electrical

| | | |
|---|---|---|
| EPA(Effective Projected Area) | | 0.075 |
| Input Voltage | | PoE++(IEEE802.3bt type4, Class8) |
| Power Consumption | PoE | Max. 64W, typical 45W |

## Mechanical

| | |
|---|---|
| Color | White |
| Material | Aluminum |
| RAL Code | RAL9003 |
| Product Dimensions | ø379.8x301.9mm(14.95x11.89") |
| Product Weight | 7,900g(17.42lb) |

## 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, EN 61000-3-2, EN 61000-3-3, VCCI CISPR 32 Class A, RCM AS-NZS CISPR 32 Class A |
| Safety | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471 |
| Environment | IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X |

## DORI (EN62676-4 standard)

| | | | |
|---|---|---|---|
| Detect (25PPM/ 8PPF) | Wide | 54.8m(179.73ft) | 59.5m(195.3ft) |
| | Tele | 144.4m(473.88ft) | 2340.4m(7678.4ft) |
| Observe (63PPM/ 19PPF) | Wide | 21.9m(71.89ft) | 23.8m(78.1ft) |
| | Tele | 57.8m(189.55ft) | 936.2m(3071.4ft) |
| Recognize (125PPM/ 38PPF) | Wide | 11.0m(35.95ft) | 11.9m(39.1ft) |
| | Tele | 28.9m(94.78ft) | 468.1m(1535.7ft) |
| Identify (250PPM/ 76PPF) | Wide | 5.5m(17.97ft) | 6.0m(19.5ft) |
| | Tele | 14.4m(47.39ft) | 234.0m(767.8ft) |

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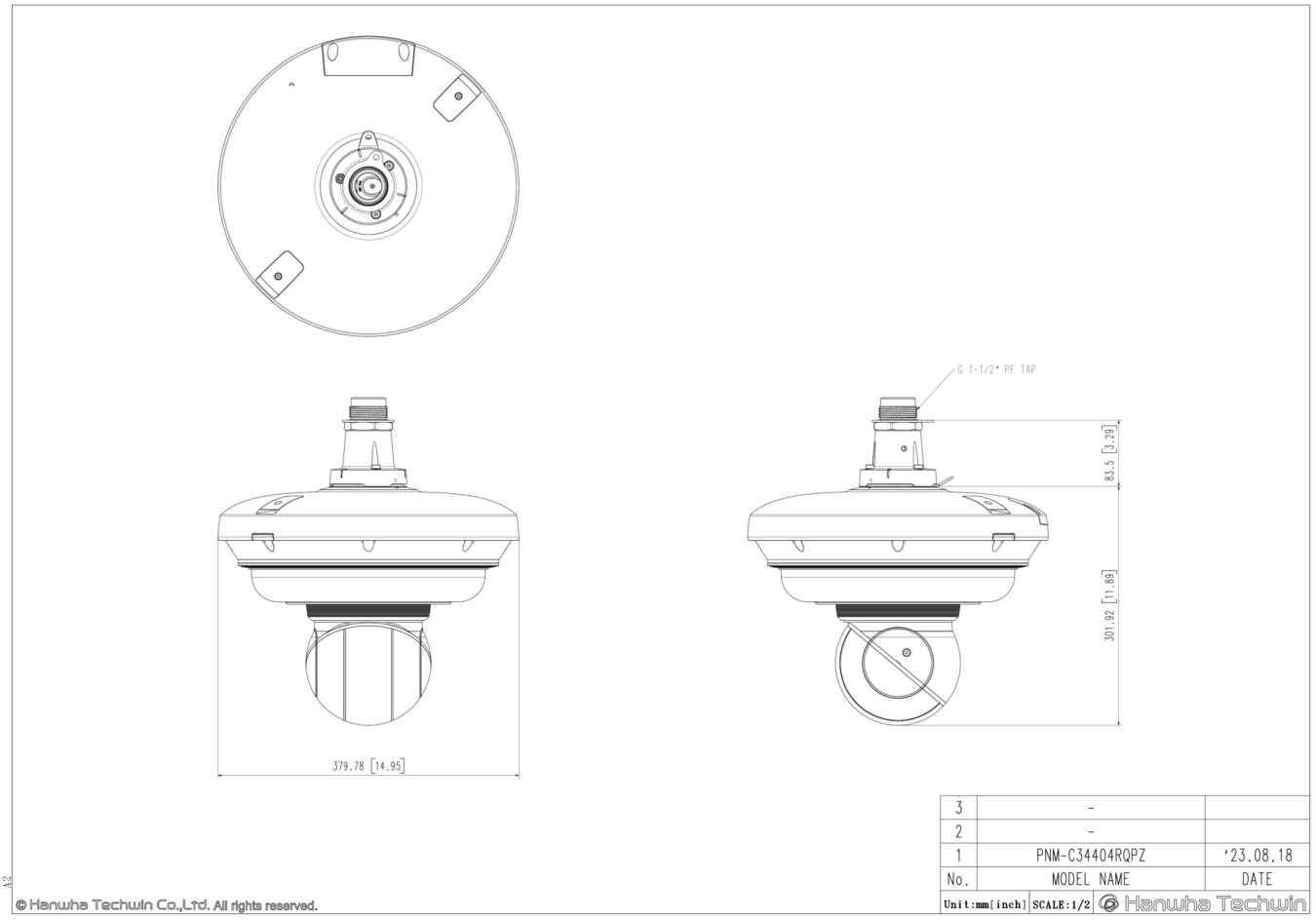
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## CAD

**Unit:** mm [inch]




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