

Network PTZ

# XNP-C6403R

## 2MP 40x AI IR PTZ PLUS Camera

## Key Features

- CloudConnector Compatible – Connects easily with HealthPro, OnCloud
- 2MP resolution
- 40X optical zoom
- IR viewable length : 200m (656ft)
- 40x optical zoom lens (4.25mm~170mm)
- -20° tilt look-up capability to see above the horizon
- Lens heater & spin dry for water/snow removal
- 360° endless pan
- Triple codec H.265/H.264/MJPEG
- WiseStream III technology
- extreme WDR
- Azimuth display (Cardinal & intermediate directions)
- AI-based Object Auto tracking (Person, Vehicle), target lock tracking, Intelligent video analytics
- Analytics events based on AI engine: Object detection (Person/Face/Vehicle/License plate), IVA (Virtual line/Area, Enter/Exit, Loitering, direction, intrusion), Analytics events: Defocus detection, Motion detection, Tampering, Fog detection, Audio detection, Sound classification (with NW I/O box), Object auto-tracking (Person/Vehicle), Target lock track
- true D/N
- DIS with Built-in Gyro sensor
- Dual Memory slots (Maximum 512GB x 2)
- IP66, IK10, NEMA4X, NEMA TS-2 2.2.8 (Vibration) & 2.2.9 (Shock)
- HPoE (IEEE802.3bt, Class6, Type3, Injector included)
- TPM 2.0 with FIPS 140-2 level 2
- Optional SPM-4210 Network I/O box for alarm & audio I/O
- Operating Temperature -40°C~+55°C (-40°F ~ +131°F)

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2MP 40x AI IR PTZ PLUS 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 | 60fps/50fps(60Hz/50Hz) |
| | MJPEG | 30fps |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.05 |
| | BW(1/30sec, 30IRE) | 0.005, 0 (IR LED On) |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 4.25~170 |
| **Zoom Ratio** | Optical | 40x |
| | Digital | 32x |
| **Max Aperture Ratio (F number)** | Wide | 1.6 |
| | Tele | 4.95 |
| **Angular Field of View** | Horizontal | 65.66°~1.88° |
| | Vertical | 39.4°~1.09° |
| **Min. Object Distance** | | 5m(16.4ft) |
| **Focus Control** | | Oneshot AF, Focus save |
| **Lens Type** | | DC auto iris |

### Pan / Tilt / Rotate

| | | |
|---|---|---|
| **Pan / Tilt / Rotate Range** | Pan | 360° Endless |
| | Tilt | 90°~-20° |
| **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 |

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## Operational

| | | |
|---|---|---|
| **Direction Indicator** | | Support |
| **Day & Night** | | Auto(ICR) |
| **Backlight Compensation** | | BLC, HLC, WDR, SSDR |
| **Wide Dynamic Range (dB)** | | 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 | 32ea |
| | Shape | 4point Quadrangle zones |
| | Color / Option | Gray, Green, Red, Blue, Black, White, Mosaic |
| **Gain Control** | | Off, Max gain, Manual |
| **White Balance** | | ATW, NarrowATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine) |
| | Speed Range | 2~1/12,000sec |
| **Video Rotation** | | Flip&Mirror |
| **Alarm Interface** | Others | Support alarm I/O via optional I/O box |
| **Alarm Triggers** | | Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription |
| **Alarm Events When Alarm Trigger Occurred** | | 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,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| **Audio In** | | Support via optional I/O box |
| **Audio Out** | | Support via optional I/O box |
| **Light Type** | | IR LED |
| **Light Viewable Length** | IR | WiseIR 200m(656.17ft) |
| **IR Wavelength** | | 850nm |
| **Water Removal** | | Support(Spin Dry, Lens heater) |
| **Auto Tracking** | | Support, Object auto tracking(Person/Vehicle), Target lock tracking |

## Analytics

| | | |
|---|---|---|
| **Classified Object Type** | | Person, Face, Vehicle, License plate |
| **Attributes** | Vehicle | Type(car, bus, truck, motorcycle, bicycle) |
| **Thumbnail** | | DetectionShot |

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## Analytics

| | | |
|---|---|---|
| **Analytics Events** | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection |
| | Normal | Tampering, Fog detection, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) |

## Network

| | | |
|---|---|---|
| **Ethernet** | | Metal shielded RJ-45(10/100BASE-T) |
| **Video Compression** | | H.265: Main,<br>H.264: Main/Baseline/High,MJPEG |
| **Smart Codec** | | Manual, WiseStreamIII |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 20 users |
| | Multicast | Support |
| | Multiple Streaming | Up to 10 profiles |
| **Protocol** | | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT, NTCIP 1205 |
| **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, Prevent brute-force attack |
| **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), HTPM(Hanwha 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 2slot(Total 1TB) |

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## Environmental & Electrical

| | | |
|---|---|---|
| **Operating Condition** | Temperature | -40°C~+50°C(-40°F~+122°F) |
| | Humidity | 0~100% RH(condensing) |
| | Others | +74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Start up should be done at above -30°C, Humidity control with AIR vent |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| **Wind Load** | | 241km/h(150mph) |
| **EPA(Effective Projected Area)** | | 0.035㎡ |
| **Input Voltage** | | PoE++(IEEE802.3bt type3, Class6) |
| **Power Consumption** | PoE | Max. 40W, Typical 24W |

## Mechanical

| | |
|---|---|
| **Color** | White, Black |
| **Material** | Aluminum, PC(Polycarbonate), Hard-coated dome |
| **RAL Code** | RAL9003, RAL9005 |
| **Product Dimensions** | ø158x293.3mm(6.22x11.55") |
| **Product Weight** | 3,200g(7.05lb) |

## 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 62262 IK10, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), NEMA 250 type 4X |

## DORI (EN62676-4 standard)

| | | |
|---|---|---|
| **Detect (25PPM/ 8PPF)** | Wide | 59.5m(195.3ft) |
| | Tele | 2340.4m(7678.4ft) |
| **Observe (63PPM/ 19PPF)** | Wide | 23.8m(78.1ft) |
| | Tele | 936.2m(3071.4ft) |
| **Recognize (125PPM/ 38PPF)** | Wide | 11.9m(39.1ft) |
| | Tele | 468.1m(1535.7ft) |
| **Identify (250PPM/ 76PPF)** | Wide | 6.0m(19.5ft) |
| | Tele | 234.0m(767.8ft) |

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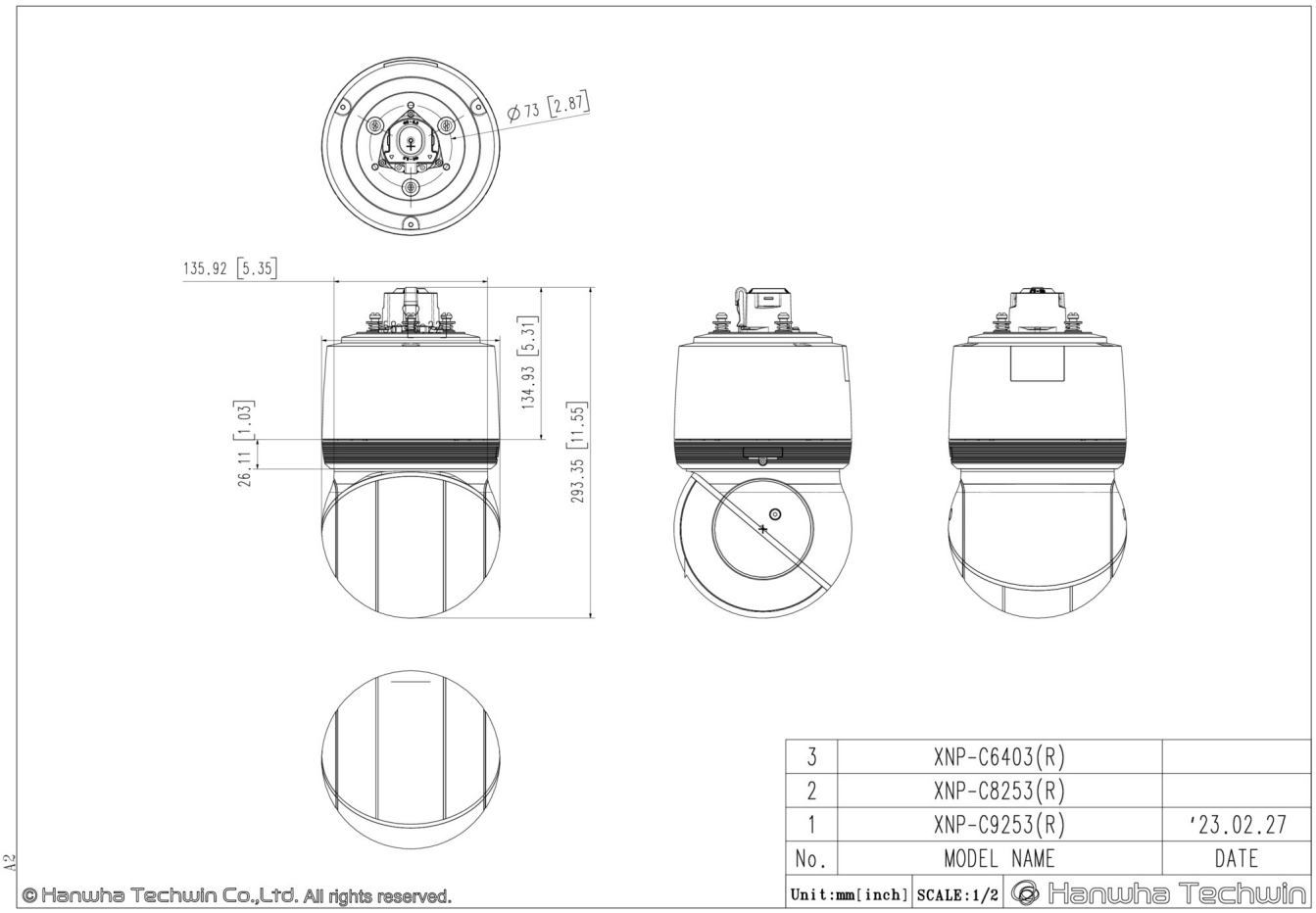
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## CAD

Unit: mm [inch]






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