



Network

PTZ

XNP-C7310R

4MP 31x AI FOCUS IR PTZ Camera



Key Features

- 4MP resolution
- 6.91 ~ 214.7mm(31x) motorised varifocal
- IR viewable length Wise IR 300m(984ft)
- Color: 0.04 Lux(F1.36, 1/30sec, 30 IRE) /
BW: 0.004 Lux(F1.36, IR LED Off), 0Lux (IR LED On)
- Day & Night(ICR), WDR(120dB), WiseNR II (Using AI engine), prefer shutter
- H.265, H.264, MJPEG codec, WiseStream II, WiseStreamIII (Using AI engine)
- DIS with built-in Gyro sensor
- Reinforced durability (IP66/IP67, IK10, NEMA4X)
- ONVIF Profile S/G/T/M, SUNAPI(HTTP API), Wisenet open platform
- Next level cybersecurity (TPM with FIPS 130-3 level2)
- Quick zoom, Wise auto focus(AI based), Focus scan

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Specifications

| Video | | |
|-------------------------------|---|--|
| Imaging Device | Size | 1/1.8" |
| | Type | CMOS |
| Resolution | 2592x1520, 2560x1440, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 | |
| Max. Framerate | H.265/H.264 | 60fps/50fps(60Hz/50Hz)(WDR off) / 30fps/25fps(60Hz/50Hz)(WDR on) |
| | MJPEG | 30fps(@4MP Max. 5fps) |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE) | 0.04 |
| | BW(1/30sec, 30IRE) | 0.004 |
| Lens | | |
| Focal Length (mm) | 6.91 ~ 214.7 | |
| Zoom Ratio | Optical | 31x |
| | Digital | 32x |
| Max Aperture Ratio (F number) | Wide | 1.36 |
| | Tele | 4.6 |
| Angular Field of View | Horizontal | 59.4°~2.54° |
| | Vertical | 35.8°~1.49° |
| | Diagonal | 68.2°~2.95° |
| Min. Object Distance | 3m(9.84ft) | |
| Focus Control | Oneshot AF, Focus save, Focus scan, Wise auto focus | |
| Lens Type | P iris(IR corrected) | |
| Optional Lens | Non | |
| Pan / Tilt / Rotate | | |
| Pan / Tilt / Rotate Range | Pan | 360° Endless |
| | Tilt | 90°~-20° |
| Pan Speed | Preset | Max. 550°/sec |
| | Manual | 0.024°/sec~200°/sec |
| Tilt Speed | Preset | Max. 550°/sec |
| | Manual | 0.024°/sec~200°/sec |

Pan / Tilt / Rotate

| | |
|-----------------|---|
| Sequence | Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule |
| Preset Accuracy | ±0.05° |

Operational

| | | |
|--|---|--|
| Direction Indicator | Support | |
| Day & Night | Auto(ICR) | |
| Backlight Compensation | BLC, HLC, WDR, SSSR | |
| Wide Dynamic Range (dB) | 120 | |
| 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, File upload(video clip): FTP/SFTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset,send message by HTTP/HTTPS/TCP, 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 | Wise IR 300m(984ft) |
| 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 |
|------------------------|--------------------------------------|

Analytics

| | | |
|------------------|--------------------|--|
| Attributes | Vehicle | Type(car, bus, truck, motorcycle, bicycle) |
| Thumbnail | | DetectionShot |
| 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/H.264: Main/Baseline/High, MJPEG |
| Smart Codec | | Manual, WiseStreamIII |
| Bitrate Control | | H.265/H.264: CBR or VBR, 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, IGMP, 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, MAC-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) |

Environmental & Electrical

| | | |
|-------------------------------|-------------|--|
| Operating Condition | Temperature | -50°C~+55°C(-58°F~+131°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) |
| EPA(Effective Projected Area) | | 0.046m ² |
| Input Voltage | | HPoE(IEEE802.3bt type4, Class8) |
| Power Consumption | PoE | Max. 62W, typical 23W |

Mechanical

| | |
|--------------------|-----------------------------|
| Color | White, Black |
| Material | Aluminum, PC(Polycarbonate) |
| RAL Code | RAL9003, RAL9005 |
| Product Dimensions | ø188x264.9mm(7.40x10.47") |
| Product Weight | 4,400g(9.70lb) |

Certifications & Standards

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

DORI (EN62676-4 standard)

| | | |
|---------------------------|------|--------------------|
| Detect (25PPM/ 8PPF) | Wide | 90.9m(298.18ft) |
| | Tele | 2338.4m(7671.81ft) |
| Observe (63PPM/ 19PPF) | Wide | 36.4m(119.27ft) |
| | Tele | 935.3m(3068.72ft) |
| Recognize (125PPM/ 38PPF) | Wide | 18.2m(59.64ft) |
| | Tele | 467.7m(1534.36ft) |
| Identify (250PPM/ 76PPF) | Wide | 9.1m(29.82ft) |
| | Tele | 233.8m(767.18ft) |

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CAD

Unit: mm [inch]

