



Network

PTZ

# XNP-C9310R

4K 31x AI FOCUS IR PTZ Camera



## Key Features

- Maximum 4K resolution
- 6.91 ~ 214.7mm(31x) motorised varifocal
- IR viewable length Wise IR 250m(820ft)
- Color: 0.06 Lux(F1.36, 1/30sec, 30 IRE) / BW: 0.006 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 140-2 level2)
- Quick zoom, Wise auto focus(AI based), Focus scan

## XNP-C9310R

4K 31x AI FOCUS IR PTZ Camera



### Specifications

| 映像                      |                                                                                                                                                               |                        |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Imaging Device          | サイズ                                                                                                                                                           | 1/1.8"                 |
|                         | タイプ                                                                                                                                                           | CMOS                   |
| 解像度                     | 3840x2160, 2592x1944, 2592x1464, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |                        |
| Max. Framerate          | H.265/H.264                                                                                                                                                   | 30fps/25fps(60Hz/50Hz) |
|                         | MJPEG                                                                                                                                                         | 30fps(@8MP Max. 5fps)  |
| Min. Illumination (Lux) | Color(1/30sec, 30IRE)                                                                                                                                         | 0.06                   |
|                         | BW(1/30sec, 30IRE)                                                                                                                                            | 0.006                  |

| レンズ                           |            |                                                      |
|-------------------------------|------------|------------------------------------------------------|
| Focal Length (mm)             |            | 6.91 ~ 214.7                                         |
| Zoom Ratio                    | Optical    | 31x                                                  |
|                               | Digital    | 32x                                                  |
| Max Aperture Ratio (F number) | Wide       | 1.36                                                 |
|                               | Tele       | 4.6                                                  |
| 視野角度                          | Horizontal | 60.6°~2.59°                                          |
|                               | Vertical   | 35.1°~1.45°                                          |
|                               | Diagonal   | 68.8°~2.97°                                          |
| Min. Object Distance          |            | 3m(9.84ft)                                           |
| Focus Control                 |            | 自動, 手動, Oneshot AF, フォーカス保存, フォーカススキャン, Wiseオートフォーカス |
| Lens Type                     |            | P iris(IR corrected)                                 |

| Pan / Tilt / Rotate       |       |                     |
|---------------------------|-------|---------------------|
| Pan / Tilt / Rotate Range | Pan   | 360° Endless        |
|                           | Tilt  | 90°~20°             |
| Pan Speed                 | プリセット | Max. 550°/sec       |
|                           | 手動    | 0.024°/sec~200°/sec |
| Tilt Speed                | プリセット | Max. 550°/sec       |
|                           | 手動    | 0.024°/sec~200°/sec |

|                                          |                |                                                                                                                                                                                                                                                        |
|------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pan / Tilt / Rotate                      |                |                                                                                                                                                                                                                                                        |
| シーケンス                                    |                | Preset(300ea), スイング, Group(6ea), 追跡, ツアー, オートラン, スケジュール                                                                                                                                                                                                |
| Preset Accuracy                          |                | ±0.05°                                                                                                                                                                                                                                                 |
| 技能                                       |                |                                                                                                                                                                                                                                                        |
| 方向インジケータ                                 |                | サポート                                                                                                                                                                                                                                                   |
| Day & Night                              |                | Auto(ICR)                                                                                                                                                                                                                                              |
| Backlight Compensation                   |                | BLC, HLC, WDR, SDDR                                                                                                                                                                                                                                    |
| Wide Dynamic Range (dB)                  |                | 120                                                                                                                                                                                                                                                    |
| Digital Noise Reduction                  |                | WiseNR II (Based on AI engine), SSNR V                                                                                                                                                                                                                 |
| Digital Image Stabilization              |                | Support(built-in gyro sensor)                                                                                                                                                                                                                          |
| 曇り除去                                     |                | サポート                                                                                                                                                                                                                                                   |
| モーション検知                                  | Quantity       | 8ea                                                                                                                                                                                                                                                    |
|                                          | Shape          | 8point Polygonal zones                                                                                                                                                                                                                                 |
| Privacy Masking                          | Quantity       | 32ea                                                                                                                                                                                                                                                   |
|                                          | Shape          | 4point Quadrangle zones                                                                                                                                                                                                                                |
|                                          | Color / Option | 灰色, 緑, Red, 青, 黒, 白, モザイク                                                                                                                                                                                                                              |
| ゲイン制御                                    |                | オフ, 最大ゲイン, 手動                                                                                                                                                                                                                                          |
| ホワイトバランス                                 |                | ATW, NarrowATW, AWC, 手動, 室内, 屋外, Mercury, Sodium                                                                                                                                                                                                       |
| Electronic Shutter                       | モード            | 最小, 最大, アンチフリッカー, Prefer shutter control(Based on AI engine)                                                                                                                                                                                           |
|                                          | Speed Range    | 2~1/12,000sec                                                                                                                                                                                                                                          |
| ビデオ回転                                    |                | Flip&Mirror                                                                                                                                                                                                                                            |
| Alarm Interface                          | その他            | Support alarm I/O via optional I/O box                                                                                                                                                                                                                 |
| Alarm Triggers                           |                | 分析, ネットワーク切断, アラーム入力, タイムスケジュール, MQTT購読                                                                                                                                                                                                                |
| 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,アラーム出力,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,<br>MQTT: publication |
| オーディオ入力                                  |                | オプションの I/O ボックスでサポート                                                                                                                                                                                                                                   |
| オーディオ出力                                  |                | オプションの I/O ボックスでサポート                                                                                                                                                                                                                                   |
| Light Type                               |                | IR LED                                                                                                                                                                                                                                                 |
| Light Viewable Length                    | IR             | Wise IR 250m(820ft)                                                                                                                                                                                                                                    |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                                                                  |
| Water Removal                            |                | Support(Spin Dry, Lens heater)                                                                                                                                                                                                                         |
| 自動トラッキング                                 |                | サポート, Object auto tracking(Person/Vehicle), Target lock tracking                                                                                                                                                                                       |
| 分析                                       |                |                                                                                                                                                                                                                                                        |
| Classified Object Type                   |                | 人, 顔, 車両, ナンバープレート                                                                                                                                                                                                                                     |

## 分析

|        |                    |                                                                   |
|--------|--------------------|-------------------------------------------------------------------|
| 属性     | 車両                 | Type(car, bus, truck, motorcycle, bicycle)                        |
| サムネイル  |                    | DetectionShot                                                     |
| 分析イベント | Based on AI Engine | 対象物検知, 仮想線 ( 交差・方向 ), 仮想領域 ( ロータリング、侵入、Enter、Exit ), モーション検知      |
|        | 通常                 | タンパリング, フォグ検出, 音声検出, サウンド分類, 衝撃検知, Virtual area(Appear/Disappear) |

## ネットワーク

|                                   |                    |                                                                                                                                                                                                                                         |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | Metal shielded RJ-45(10/100BASE-T)                                                                                                                                                                                                      |
| 映像圧縮                              |                    | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                                  |
| Smart codec                       |                    | 手動, WiseStreamIII                                                                                                                                                                                                                       |
| ビットレートコントロール                      |                    | H.265/H.264: CBR or VBR, MJPEG: VBR                                                                                                                                                                                                     |
| Streaming                         | Unicast            | 最大 20ユーザー                                                                                                                                                                                                                               |
|                                   | マルチキャスト            | サポート                                                                                                                                                                                                                                    |
|                                   | Multiple Streaming | 最大 10プロファイル                                                                                                                                                                                                                             |
| プロトコル                             |                    | 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                                                                                                                                                                                                                              |
|                                   | その他                | SUNAPI(HTTP API), Hanwha Vision Open Platform                                                                                                                                                                                           |
| Direct Cloud Connection           |                    | サポート                                                                                                                                                                                                                                    |

## セキュリティ

|                        |  |                                                                                                       |
|------------------------|--|-------------------------------------------------------------------------------------------------------|
| OS / Firmware Protect  |  | Encrypted firmware, Secure boot, Signed firmware                                                      |
| ユーザー認証                 |  | ダイジェスト認証, 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                                                                |
| デバイス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                                                                        |

## 一般

|              |                    |                               |
|--------------|--------------------|-------------------------------|
| メモリ          | RAM                | 4GB                           |
|              | フラッシュ              | 512MB                         |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB) |

## Environmental & Electrical

|               |     |                                                                                                                      |
|---------------|-----|----------------------------------------------------------------------------------------------------------------------|
| 動作条件          | 温度  | -50°C~+55°C(-58°F~+131°F)                                                                                            |
|               | 湿度  | 0~100% RH(condensing)                                                                                                |
|               | その他 | +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 |
| 保管条件          | 温度  | -50°C~+60°C(-58°F~+140°F)                                                                                            |
|               | 湿度  | 0~90% RH(non-condensing)                                                                                             |
| Input Voltage |     | HPoE(IEEE802.3bt type4, Class8)                                                                                      |
| 消費電力          | PoE | Max. 62W, typical 23W                                                                                                |

## Mechanical

|                    |                                             |
|--------------------|---------------------------------------------|
| カラー                | 白, 黒                                        |
| 材料                 | アルミニウム, PC(Polycarbonate), Hard-coated dome |
| RAL Code           | RAL9003, RAL9005                            |
| Product Dimensions | ø188x264.9mm(7.40x10.47")                   |
| Product Weight     | 4,400g(9.70lb)                              |

## 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, KS C 9832 Class A, KS C 9835 |
| Safety | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471                                                                                                                                                         |
| 環境     | 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 | 131.4m(431.19ft)    |
|                           | Tele | 3397.3m(11146.16ft) |
| Observe (63PPM/ 19PPF)    | Wide | 52.6m(172.48ft)     |
|                           | Tele | 1358.9m(4458.46ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 26.3m(86.24ft)      |
|                           | Tele | 679.5m(2229.23ft)   |
| Identify (250PPM/ 76PPF)  | Wide | 13.1m(43.12ft)      |
|                           | Tele | 339.7m(1114.62ft)   |

XNP-C9310R  
4K 31x AI FOCUS IR PTZ Camera



CAD

Unit: mm [inch]

