



Network

PTZ

# XNP-C8303RW

6MP 30x AI PTZ Camera with built-in wiper



## Key Features

- Max. 6MP resolution
- 5~150mm(30x) zoom (digital 32x, total 960x zoom)
- Day & Night (ICR), extreme WDR, DIS (Built-in gyro sensor)
- Intelligent Analytics, Object auto tracking (Person/Vehicle), Target lock tracking
- H.264, H.265, MJPEG codec, WiseStream II
- IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)
- PTZ PLUS Design applied (Compact, Lighter, Simple cabling)
- Built-in wiper

# XNP-C8303RW

6MP 30x AI PTZ Camera with built-in wiper



## Specifications

### Video

|                   |                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device    | 1/2.8" CMOS                                                                                                                                                              |
| Resolution        | 3328x1872, 3072x1728, 2592x1944, 2688x1520, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate    | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz) (@6MP Max. 5fps)                                                                          |
| Min. Illumination | Color: 0.1Lux(F1.6, 1/30sec)<br>BW: 0Lux(IR LED On)                                                                                                                      |

### Lens

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| Focal Length (Zoom Ratio) | 5~150mm(30x) zoom (digital 32x, total 960x zoom)          |
| Max. Aperture Ratio       | F1.6(Wide) - F4.56(Tele)                                  |
| Angular Field of View     | H: 57.42°(Wide)~2.19°(Tele) / V: 33.54°(Wide)~1.25°(Tele) |
| Min. Object Distance      | 3m(9.84ft)                                                |
| Focus Control             | Oneshot AF, Focus save                                    |
| Lens Type                 | DC auto iris                                              |

### Pan / Tilt / Rotate

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| Pan Range       | 360° Endless                                                      |
| Pan Speed       | Max. 500°/sec, Manual: 0.024°/sec~250°/sec                        |
| Tilt Range      | 110°(-20°~90°)                                                    |
| Tilt Speed      | Max. 350°/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

|                             |                               |
|-----------------------------|-------------------------------|
| Camera Title                | Displayed up to 85 characters |
| Direction Indicator         | Support                       |
| Day & Night                 | Auto(ICR)/Color/BW/Schedule   |
| Backlight Compensation      | BLC, HLC, WDR, SDR            |
| Wide Dynamic Range          | Extreme WDR(120dB)            |
| Digital Noise Reduction     | SSNR V                        |
| Digital Image Stabilization | Support(built-in gyro sensor) |
| Defog                       | Support                       |
| Motion Detection            | 8ea, 8point polygonal zones   |

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Privacy Masking                   | 32ea, Quadrangle Support<br>- Color: Grey/Green/Red/Blue/Black/White<br>- Mosaic                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gain Control                      | Manual / Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| White Balance                     | ATW /Narrow ATW /AWC /Manual /Indoor /Outdoor /Mercury /Sodium                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Electronic Shutter Speed          | Minimum / Maximum / Anti flicker (2~1/12,000sec)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Video Rotation                    | Flip, Mirror                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Analytics                         | Classified object type : Person/Face/Vehicle/License plate<br>Attributes : Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Support DetectionShot<br>Analytics events based on AI engine<br>- Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit)<br>Analytics events<br>- Defocus detection, Motion detection, Tampering, Fog detection, Shock detection, Virtual area(Appear/Disappear)<br>* Audio detection, Sound classification(with NW I/O Box) |
| Alarm Triggers                    | Analytics, Network disconnect<br>* Alarm input(with NW I/O Box)                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alarm Events                      | File upload via FTP and e-mail<br>Notification via e-mail<br>SD/SDHC/SDXC or NAS recording at event triggers<br>PTZ Preset<br>Handover<br>* Alarm output(with NW I/O Box)                                                                                                                                                                                                                                                                                                                           |
| IR Viewable Length                | 200m(656.17ft), Wise IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Water Removal                     | Support(Wiper)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Auto Tracking                     | Object auto tracking(Person/Vehicle), Target lock tracking                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Network</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Ethernet                          | Metal shielded RJ-45(10/100BASE-T)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Video Compression                 | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Smart Codec                       | Manual(5ea area), WiseStream II                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Bitrate Control                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Streaming                         | Unicast(20 users) / Multicast (128 user)<br>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, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTP, NTCIP, MQTT                                                                                                                                                                                                                                                                                        |
| Application Programming Interface | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Security</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OS / Firmware Protect             | Secure boot, Signed firmware, Firmware encryption                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| User authentication               | Digest Authentication, Prevent brute-force attack                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Network authentication            | 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Secure Communication              | HTTPS, SRTP, WSS(Web socket secure)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Access Control                    | IP address filtering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Data Protect                      | Authentication information encryption, ZIP compression encryption                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Audit                             | User Access/System/Event log                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Device ID                         | Device Certificate(Hanwha Techwin Root CA, pre-installed)                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Secure Storage                    | TPM 2.0 with FIPS 140-2 level2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Security Certificate              | Secure by default                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| General                          |                                                                                                                                                     |
| Webpage Language                 | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek          |
| Edge Storage                     | Micro SD/SDHC/SDXC 2slot 1TB                                                                                                                        |
| Memory                           | 4GB RAM, 512MB Flash                                                                                                                                |
| Environmental & Electrical       |                                                                                                                                                     |
| Operating Temperature / Humidity | -40°C~+55°C(-40°F ~ +131°F) / +74°C(+165°F) (MAX) based on NEMA-TS 2(2.2.7)<br>* Start up should be done at above -30°C<br>0~95% RH(Non-condensing) |
| Storage Temperature / Humidity   | -50°C ~ +60°C(-58°F ~ +140°F) / 0~90% RH                                                                                                            |
| Certification                    | IP66, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9)                                                                                                         |
| Input Voltage                    | HPoE(IEEE802.3bt, Class6, Type3, Injector included)                                                                                                 |
| Power Consumption                | Typical 26W, Max 46W                                                                                                                                |
| Mechanical                       |                                                                                                                                                     |
| Color / Material                 | White, Black / Aluminum+Polycarbonate                                                                                                               |
| RAL Code                         | White: RAL9003 / Black: RAL9005                                                                                                                     |
| Product Dimensions / Weight      | ø184.9x318.8mm(7.28x12.55") / 5.6kg (12.34lb)                                                                                                       |
| DORI (EN62676-4 standard)        |                                                                                                                                                     |
| Detect (25PPM/ 8PPF)             | Wide: 121.5m(398.7ft) / Tele: 3482.3m(11424.9ft)                                                                                                    |
| Observe (63PPM/ 19PPF)           | Wide: 48.6m(159.5ft)/ Tele: 1392.9m(4570.0ft)                                                                                                       |
| Recognize (125PPM/ 38PPF)        | Wide: 24.3m(79.7ft)/ Tele: 696.5m(2285.0ft)                                                                                                         |
| Identify (250PPM/ 76PPF)         | Wide: 12.2m(39.9ft) / Tele: 348.2m(1142.5ft)                                                                                                        |