



Network

PTZ

# XNP-C6403RW

2MP 40x AI PTZ Camera with built-in wiper



## Key Features

- Max. 2MP resolution
- 4.25~170mm(40x) zoom (digital 32x, total 1280x 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

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## Specifications

### Video

|                   |                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------|
| Imaging Device    | 1/2.8" CMOS                                                                                                       |
| Resolution        | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate    | H.265/H.264: Max. 60fps/50fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz)                                    |
| Min. Illumination | Color: 0.05Lux(F1.6, 1/30sec)<br>BW: 0Lux(IR LED On)                                                              |

### Lens

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Focal Length (Zoom Ratio) | 4.25~170mm(40x) zoom (digital 32x, total 1280x zoom)     |
| Max. Aperture Ratio       | F1.6(Wide)~F4.95(Tele)                                   |
| Angular Field of View     | H: 65.66°(Wide)~1.88°(Tele) / V: 39.4°(Wide)~1.09°(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°(90°~-20°)                                                    |
| 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)                                                                        |
| Backlight Compensation      | BLC, HLC, WDR, SSDR                                                              |
| Wide Dynamic Range          | Extreme WDR(150dB)                                                               |
| Digital Noise Reduction     | WiseNR II (Based on AI engine), 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                | Off / Max gain / Manual                                                          |
| White Balance               | ATW / NarrowATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium             |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com)

Hanwha Vision is formerly known as Hanwha Techwin.

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (2~1/12,000sec)<br>Prefer shutter control(Based on AI engine)                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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>- Motion detection, Tampering, Fog detection, Shock detection, Virtual area(Appear/Disappear)<br>* Audio detection, Sound classification(Via optional I/O box SPM-4210) |
| Alarm Triggers           | Analytics, Network disconnect, Alarm input((Via optional I/O box SPM-4210), Time schedule, MQTT subscription                                                                                                                                                                                                                                                                                                                                                                                   |
| Alarm Events             | When alarm trigger occurred<br>- File upload(image) : e-mail/FTP<br>- Notification : e-mail<br>- Recording : SD/SDHC/SDXC or NAS recording at event triggers<br>- Handover: PTZ preset, send message by HTTP/HTTPS/TCP<br>- MQTT: publication<br>* Alarm output / Audio clip playback(Via optional I/O box SPM-4210)                                                                                                                                                                           |
| IR Viewable Length       | Wise IR 200m(656.17ft)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Water Removal            | Support(with Wiper, Lens heater)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Auto Tracking            | Support<br>Object auto tracking(Person/Vehicle)<br>Target lock tracking                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Network

|                                   |                                                                                                                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 , WiseStreamIII (Based on AI Engine)                                                                                                                                                             |
| 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, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), NTCIP1205, MQTT |
| Application Programming Interface | ONVIF Profile S/G/T/M<br>SUNAPI(HTTP API)<br>Wisenet open platform                                                                                                                                                               |

## Security

|                        |                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------|
| 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         | Access control based on IP address                                                           |
| Data Protect           | Authentication information encryption, ZIP compression encryption                            |
| Audit                  | User Access/System/Event log management                                                      |
| Device ID              | Device Certificate(Hanwha Private Root CA)                                                   |
| Secure Storage         | TPM(Trusted platform module), HTPM(Hanwha trusted platform module), SDcard partition encrypt |
| Security Certificate   | TPM with FIPS 140-2 level 2                                                                  |

## 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 (512GBx2)                                                                                                     |

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|        |                      |
|--------|----------------------|
| Memory | 4GB RAM, 512MB Flash |
|--------|----------------------|

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|                                  |                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>0~100%RH(Condensing) Humidity control/w AIR sheet |
| Storage Temperature / Humidity   | -50°C ~ +60°C(-58°F ~ +140°F) / 0~90% RH                                                                                                                                     |
| Certification                    | IP66, IK10, NEMA4X, NEMA-TS 2(2.2.7, 2.2.8, 2.2.9)                                                                                                                           |
| Input Voltage                    | PoE++(IEEE802.3bt, Class6, Type3, Injector included)                                                                                                                         |
| Power Consumption                | Typical 26W, Max 46W                                                                                                                                                         |

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|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| Mechanical                  |                                                                |
| Color / Material            | White, Black / Aluminum+Polycarbonate                          |
| RAL Code                    | White: RAL9003 / Black: RAL9005                                |
| Product Dimensions / Weight | ø184.9x318.8mm(7.28x12.55") / 5600g (12.34lb)                  |
| Hanging Mount (Dome)        | SBP-156HMW                                                     |
| Ceiling Mount (Assy)        | SBP-156CMW, SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI |
| Wall Mount                  | SBP-156WMW, SBP-390WMW2                                        |
| Pole Mount                  | SBP-300PMW2                                                    |
| Parapet Mount               | SBP-156LMW, SBP-156LMW1, SBP-300LMW                            |
| Corner Mount                | SBP-156KMW, SBP-300KMW1                                        |
| Cabinet                     | SBP-300NBW                                                     |

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certifications & Standards |                                                                                                                                                                                            |
| EMC                        | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A<br>KS C 9832 Class A, KS C 9835 |
| Safety                     | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC 62471                                                                                                                                         |
| Environment                | EN IEC 63000<br>IEC 60529 IP66, IEC 62262 IK10<br>NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9)<br>NEMA 250 type 4X                                                                                 |

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|                           |                                                |
|---------------------------|------------------------------------------------|
| 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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CAD

Unit:mm [inch]

