



Network

PTZ

# XNP-9300RW

4K Network 30x IR PTZ with built-in wiper



## Key Features

- Max. 4K resolution
- 5~150mm (30x) optical zoom (digital 32x)
- Max. IR viewable length 200m
- 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, WiseStreamII
- IP66, IK10, NEMA4X
- **PTZ PLUS** Design applied (Compact, Lighter, Simple cabling)
- I/O unit sold separately

## XNP-9300RW

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### Specifications

| Video                         |                       |                                                                                                                                                               |
|-------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device                | Size                  | 1/2.8"                                                                                                                                                        |
|                               | Type                  | CMOS                                                                                                                                                          |
| Resolution                    |                       | 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) | 0.1                                                                                                                                                           |
|                               | BW(1/30sec, 30IRE)    | 0.01                                                                                                                                                          |
| Lens                          |                       |                                                                                                                                                               |
| Focal Length (mm)             |                       | 5~150                                                                                                                                                         |
| Zoom Ratio                    | Optical               | 30x                                                                                                                                                           |
|                               | Digital               | 32x                                                                                                                                                           |
| Max Aperture Ratio (F number) | Wide                  | 1.6                                                                                                                                                           |
|                               | Tele                  | 4.56                                                                                                                                                          |
| Angular Field of View         | Horizontal            | 57.42°~2.19°                                                                                                                                                  |
|                               | Vertical              | 33.54°~1.25°                                                                                                                                                  |
| Min. Object Distance          |                       | 3m(9.84ft)                                                                                                                                                    |
| 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. 500°/sec                                                                                                                                                 |
|                               | Manual                | 0.024°/sec~250°/sec                                                                                                                                           |
| Tilt Speed                    | Preset                | Max. 350°/sec                                                                                                                                                 |
|                               | Manual                | 0.024°/sec~250°/sec                                                                                                                                           |
| Sequence                      |                       | Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule                                                                                             |

## Pan / Tilt / Rotate

|                 |                                             |
|-----------------|---------------------------------------------|
| Preset Accuracy | Up to $\pm 0.1^\circ$ , Pan/Tilt correction |
|-----------------|---------------------------------------------|

## Operational

|                                          |                |                                                                                                                                                                                                                                                                                  |
|------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Direction Indicator                      |                | Support                                                                                                                                                                                                                                                                          |
| Day & Night                              |                | Auto(ICR)                                                                                                                                                                                                                                                                        |
| Backlight Compensation                   |                | BLC, HLC, WDR, SSDR                                                                                                                                                                                                                                                              |
| Wide Dynamic Range (dB)                  |                | 120                                                                                                                                                                                                                                                                              |
| Digital Noise Reduction                  |                | 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                             |                | Max gain, Manual                                                                                                                                                                                                                                                                 |
| White Balance                            |                | ATW, NarrowATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium                                                                                                                                                                                                                    |
| Electronic Shutter                       | Mode           | Minimum, Maximum, Anti flicker                                                                                                                                                                                                                                                   |
|                                          | 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                                                                                                                                                                                                                                       |
| 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             | Wise IR 200m(656.17ft)                                                                                                                                                                                                                                                           |
| IR Wavelength                            |                | 850nm                                                                                                                                                                                                                                                                            |
| Water Removal                            |                | Support(with Wiper, Lens heater)                                                                                                                                                                                                                                                 |
| Auto Tracking                            |                | Support, Object auto tracking(Person/Vehicle), Target lock tracking                                                                                                                                                                                                              |

## Analytics

|                  |        |                                                                                                                                                                                                                        |
|------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics Events | Normal | Motion detection, Tampering, Fog detection, Face detection, Audio detection, Sound classification, Shock detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) |
|------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Network

|                                   |                    |                                                                                                                                                                                                                                         |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet                          |                    | Metal shielded RJ-45(10/100BASE-T)                                                                                                                                                                                                      |
| Video Compression                 |                    | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                                  |
| Smart Codec                       |                    | Manual, WiseStream II                                                                                                                                                                                                                   |
| 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                                                                                                                                                                                                                                 |
|                                   | 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   |  | CyberSecurity assurance program UL CAP(UL 2900-2-3 L2)                                                |

## General

|              |                    |                               |
|--------------|--------------------|-------------------------------|
| Memory       | RAM                | 4GB                           |
|              | Flash              | 512MB                         |
| Edge Storage | Micro SD/SDHC/SDXC | Max. 512GB x 2slot(Total 1TB) |

## Environmental & Electrical

|                     |             |                                                                                                                      |
|---------------------|-------------|----------------------------------------------------------------------------------------------------------------------|
| Operating Condition | Temperature | -40°C~+55°C(-40°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)                                                                                             |

## Environmental & Electrical

|                               |     |                                  |
|-------------------------------|-----|----------------------------------|
| EPA(Effective Projected Area) |     | 0.048m <sup>2</sup>              |
| Input Voltage                 |     | PoE++(IEEE802.3bt type3, Class6) |
| Power Consumption             | PoE | Max. 42W, Typical 20W            |

## Mechanical

|                    |  |                             |
|--------------------|--|-----------------------------|
| Color              |  | White, Black                |
| Material           |  | Aluminum, PC(Polycarbonate) |
| RAL Code           |  | RAL9003, RAL9005            |
| Product Dimensions |  | ø184.9x318.8mm(7.28x12.55") |
| Product Weight     |  | 5,400g(11.90lb)             |

## DORI (EN62676-4 standard)

|                           |      |                    |
|---------------------------|------|--------------------|
| Detect (25PPM/ 8PPF)      | Wide | 140.2m(460ft)      |
|                           | Tele | 4018.1m(13182.6ft) |
| Observe (63PPM/ 19PPF)    | Wide | 56.1m(184ft)       |
|                           | Tele | 1607.2m(5273.1ft)  |
| Recognize (125PPM/ 38PPF) | Wide | 28.0m(92ft)        |
|                           | Tele | 803.6m(2636.5ft)   |
| Identify (250PPM/ 76PPF)  | Wide | 14.0m(46ft)        |
|                           | Tele | 401.8m(1318.3ft)   |

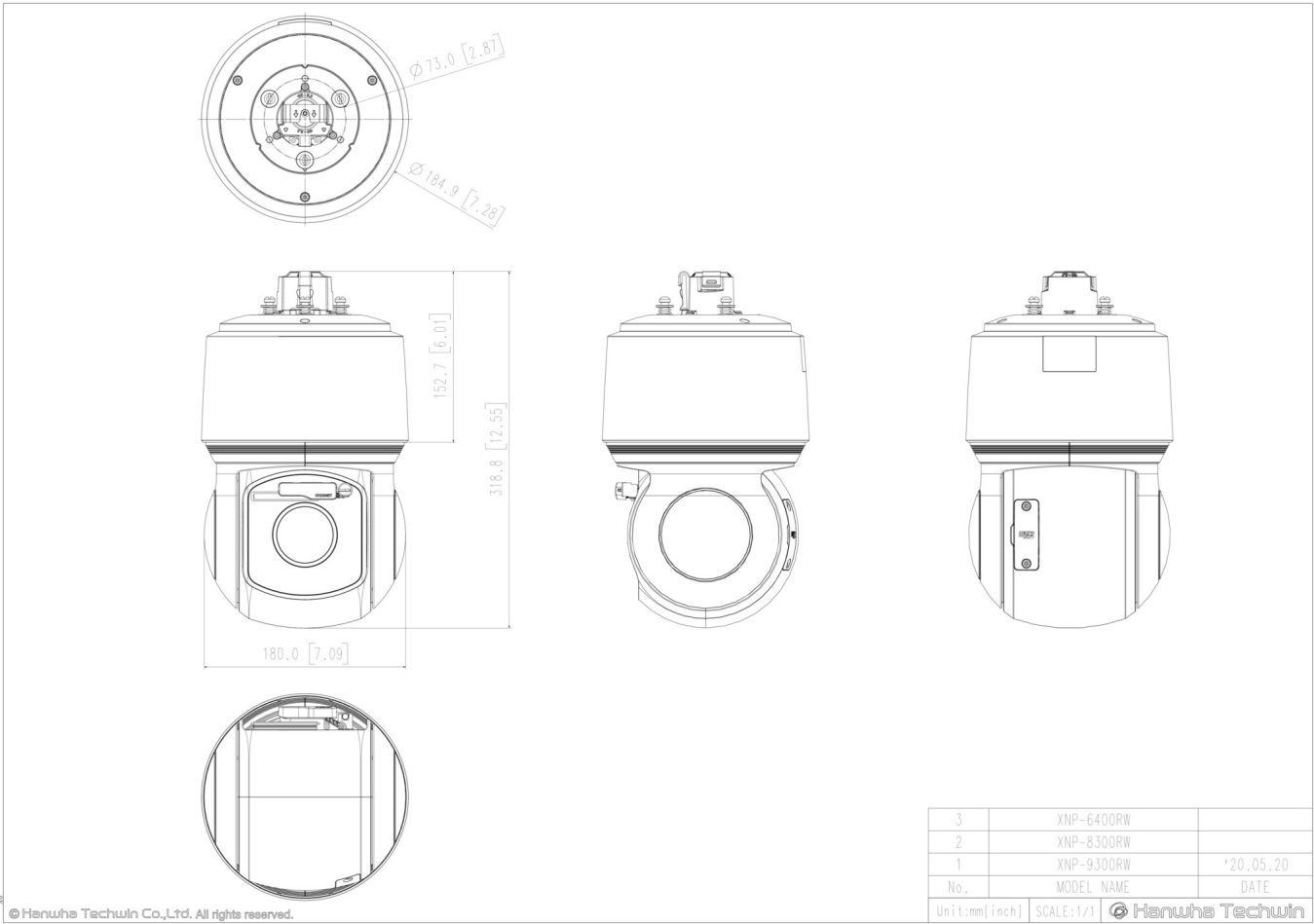
XNP-9300RW

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CAD

Unit: mm [inch]



Compatible Devices



SBP-300LMW



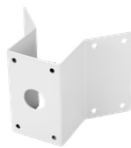
SBP-156HMW



SBP-300WMW1



SBP-156LMW



SBP-300KMW



SBP-300BW



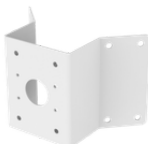
SBP-300PMW



SBP-156WMW



SBP-300WMW



SBP-156KMW



SBP-156CMW



SBP-300CMW