

Network PTZ

# XNP-8250

6MP Network 25x PTZ Camera

## Key Features

- Max. 6MP resolution
- 5~125mm (25x) zoom (digital zoom 32x)
- 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, NEMA-TS 2 (2.2.8, 2.2.9)
- **PTZ PLUS** Design applied (Compact, Lighter, Simple cabling)
- I/O unit sold separately

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# XNP-8250

6MP Network 25x PTZ Camera



## Specifications

### Video

| | | |
|---|---|---|
| **Imaging Device** | Size | 1/2.8" |
| | Type | CMOS |
| **Resolution** | | 3328x1872, 3072x1728, 2688x1520, 2592x1944, 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(@6MP Max. 5fps) |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.1 |
| | BW(1/30sec, 30IRE) | 0.01 |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 5~125 |
| **Zoom Ratio** | Optical | 25x |
| | Digital | 32x |
| **Max Aperture Ratio (F number)** | Wide | 1.6 |
| | Tele | 3.73 |
| **Angular Field of View** | Horizontal | 57.42°~2.71° |
| | Vertical | 33.54°~1.55° |
| **Min. Object Distance** | | 5m(16.4ft) |
| **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. 700°/sec |
| | Manual | 0.024°/sec~250°/sec |
| **Tilt Speed** | Preset | Max. 500°/sec |
| | Manual | 0.024°/sec~250°/sec |
| **Sequence** | | Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule |

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## Pan / Tilt / Rotate

| | |
|---|---|
| Preset Accuracy | Up to ±0.1°, 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 | | Low, Middle, High |
| White Balance | | ATW, AWC, Manual, Indoor, Outdoor |
| 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 |
| Water Removal | | Support(Spin Dry, 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 |

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## Network

| | | |
|---|---|---|
| **Smart Codec** | | Manual, WiseStream II |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>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, IGMPv2, 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** | HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256) |
| **Security Certificate** | CyberSecurity assuarance 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) |
| **EPA(Effective Projected Area)** | | 0.035㎡ |
| **Input Voltage** | | PoE+(IEEE802.3at, Class4) |
| **Power Consumption** | PoE | Max. 25W, Typical 20W |

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## Mechanical

| | |
|---|---|
| **Color** | White, Black |
| **Material** | Aluminum, PC(Polycarbonate), Hard-coated dome |
| **RAL Code** | RAL9003, RAL9005 |
| **Product Dimensions** | ø158x293.3mm(6.22x11.55") |
| **Product Weight** | 3,200g(7.05lb) |

## DORI (EN62676-4 standard)

| | | |
|---|---|---|
| **Detect (25PPM/ 8PPF)** | Wide | 121.5m(398.7ft) |
| | Tele | 2813.9m(9232.1ft) |
| **Observe (63PPM/ 19PPF)** | Wide | 48.6m(159.5ft) |
| | Tele | 1125.6m(3692.8ft) |
| **Recognize (125PPM/ 38PPF)** | Wide | 24.3m(79.7ft) |
| | Tele | 562.8m(1846.4ft) |
| **Identify (250PPM/ 76PPF)** | Wide | 12.2m(39.9ft) |
| | Tele | 281.4m(923.2ft) |

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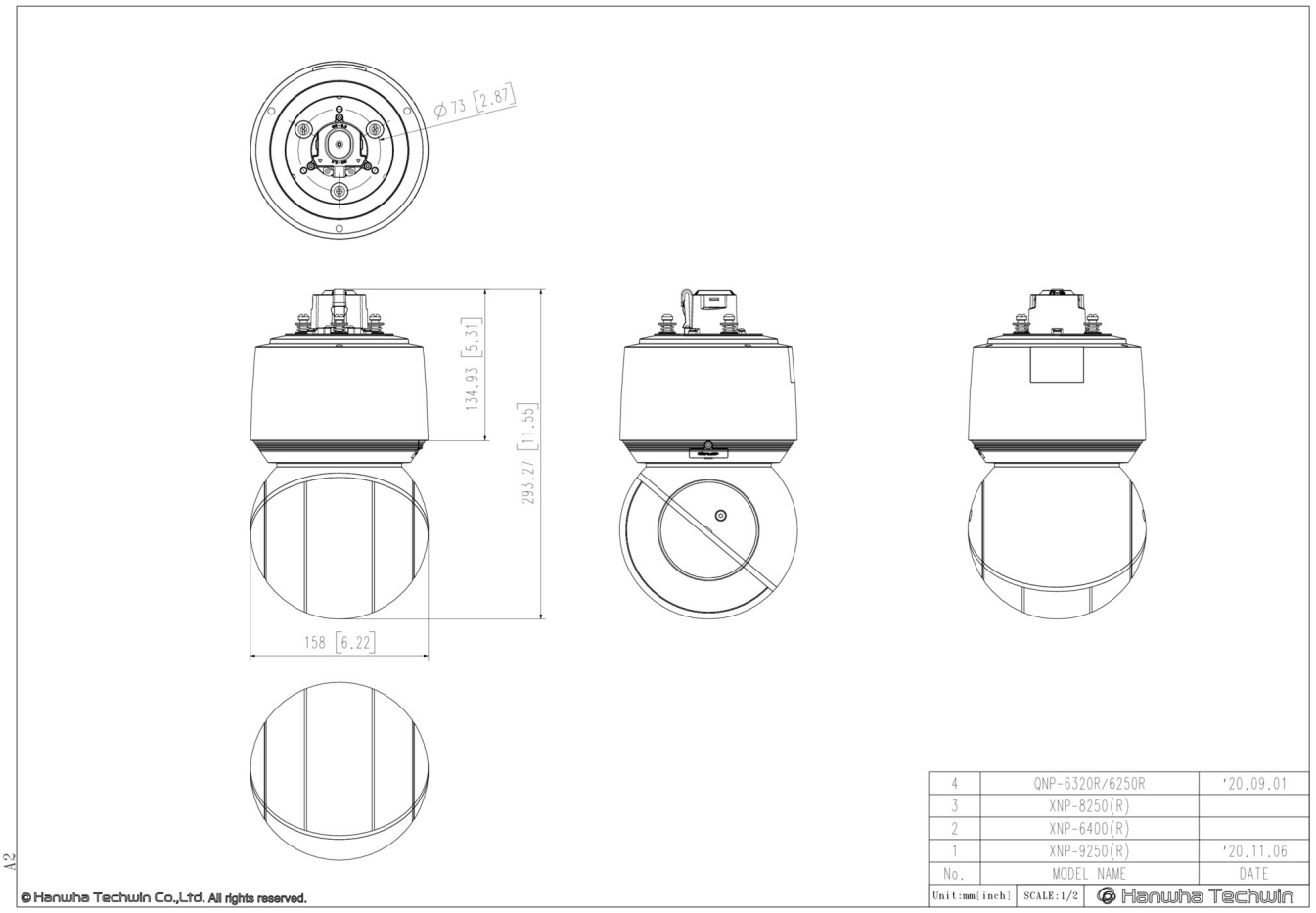
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## CAD

**Unit:** mm [inch]




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## Compatible Devices



SBP-156HMW



SBP-156HMWR



SBP-156KMW



SBP-156WMW



SBP-300BW



SBP-300CMW



SBP-300KMW



SBP-300WMW1



SHP-1563FPW



SPB-PTZ85W



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