



Network

PTZ

XNP-C8253R

6MP 25x AI PTZ Camera



Key Features

- Max. 6MP resolution
- 5~125mm(25x) zoom (digital 32x, total 800x 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)

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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) MJPEG: Max. 30fps/25fps(60Hz/50Hz) (@6MP Max. 5fps) |
| Min. Illumination | Color: 0.1Lux(F1.6, 1/30sec) BW: 0Lux(IR LED On) |

Lens

| | |
|---------------------------|---|
| Focal Length (Zoom Ratio) | 5~125mm(25x) zoom (digital 32x, total 800x zoom) |
| Optical Zoom | 25x |
| Max. Aperture Ratio | F1.6(Wide)~F3.73(Tele) |
| Angular Field of View | H: 57.42°(Wide)~2.71°(Tele) / V: 33.54°(Wide)~1.55°(Tele) |
| Min. Object Distance | 5m(16.4ft) |
| Focus Control | Oneshot AF, Focus save |
| Lens Type | DC auto iris |

Pan / Tilt / Rotate

| | |
|-----------------|---|
| Pan Range | 360° Endless |
| Pan Speed | Max. 700°/sec, Manual: 0.024°/sec~250°/sec |
| Tilt Range | 110°(90°~-20°) |
| Tilt Speed | Max. 500°/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, SDDR |
| Wide Dynamic Range | Extreme WDR(120dB) |
| 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, 4point Quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic |

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

Hanwha Vision is formerly known as Hanwha Techwin.

| | |
|-----------------------------------|--|
| Gain Control | Off / Max gain / Manual |
| White Balance | ATW / NarrowATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (2~1/12,000sec) Prefer shutter control(Based on AI engine) |
| Video Rotation | Flip&Mirror |
| Analytics | Classified object type : Person/Face/Vehicle/License plate Attributes : Vehicle(Type:car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics events - Tampering, Fog detection, Shock detection, Virtual area(Appear/Disappear) * 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 - File upload(image) : e-mail/FTP/SFTP - File upload(video clip): FTP/SFTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback - MQTT: publication * Alarm output / Audio clip playback(Via optional I/O box SPM-4210) |
| Light Type | IR LED(850nm) |
| IR Viewable Length | Wise IR 200m(656.17ft) |
| Water Removal | Support(Spin dry, Lens heater) |
| Auto Tracking | Support Object auto tracking(Person/Vehicle) 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 MJPEG: VBR |
| Streaming | Unicast(20 users) / Multicast (128 user) 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), NTCIP1205, MQTT |
| Application Programming Interface | ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform |
| Security | |
| OS / Firmware Protect | Encrypted Firmware, Secure boot, Signed Firmware |
| User authentication | Digest Authentication, Prevent brute-force attacks |
| 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 |
| Security Certificate | TPM with FIPS 140-2 level 2 |

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Hanwha Vision is formerly known as Hanwha Techwin.

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) |
| 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) * Start up should be done at above -30°C 0~100%RH(Condensing) Humidity control with AIR vent |
| Storage Temperature / Humidity | -50°C ~ +60°C(-58°F ~ +140°F) / 0~90% RH |
| Wind Load | 241km/h(150mph) EPA(Effective Projected Area) : 0.035m ² |
| 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 24W, Max 40W |

Mechanical

| | |
|-----------------------------|---|
| Color / Material | Body : White / Aluminum Head : Black / Polycarbonate Hard-coated dome |
| RAL Code | White: RAL9003 / Black: RAL9005 |
| Product Dimensions / Weight | ø158x293.3mm(6.22x11.55") / 3200g(7.05lb) |
| Hanging Mount (Dome) | SBP-156HMW |
| Ceiling Mount (Assy) | SBP-156CMW, SBP-300CMTS, SBP-300CMW1/900CMW, SBP-150CMI/300CMI |
| Wall Mount | SBP-156WMW, SBP-300WMW, SBP-300WMW1, SBP-400WMW, SBP-250WMW |
| Pole Mount | SBP-300PMW2 |
| In-ceiling Mount | SHP-1563FPW, SHP-1563FW |
| Parapet Mount | SBP-156LMW, SBP-156LMW1, SBP-300LMW |
| Corner Mount | SBP-156KMW, SBP-300KMW1 |
| Cabinet | SBP-300NBW |
| Other Compatible Models | SPB-PTZ85W |

Certifications & Standards

| | |
|-------------|---|
| EMC | FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4 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 |
| Environment | EN IEC 63000 IEC 60529 IP66, 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: 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) |

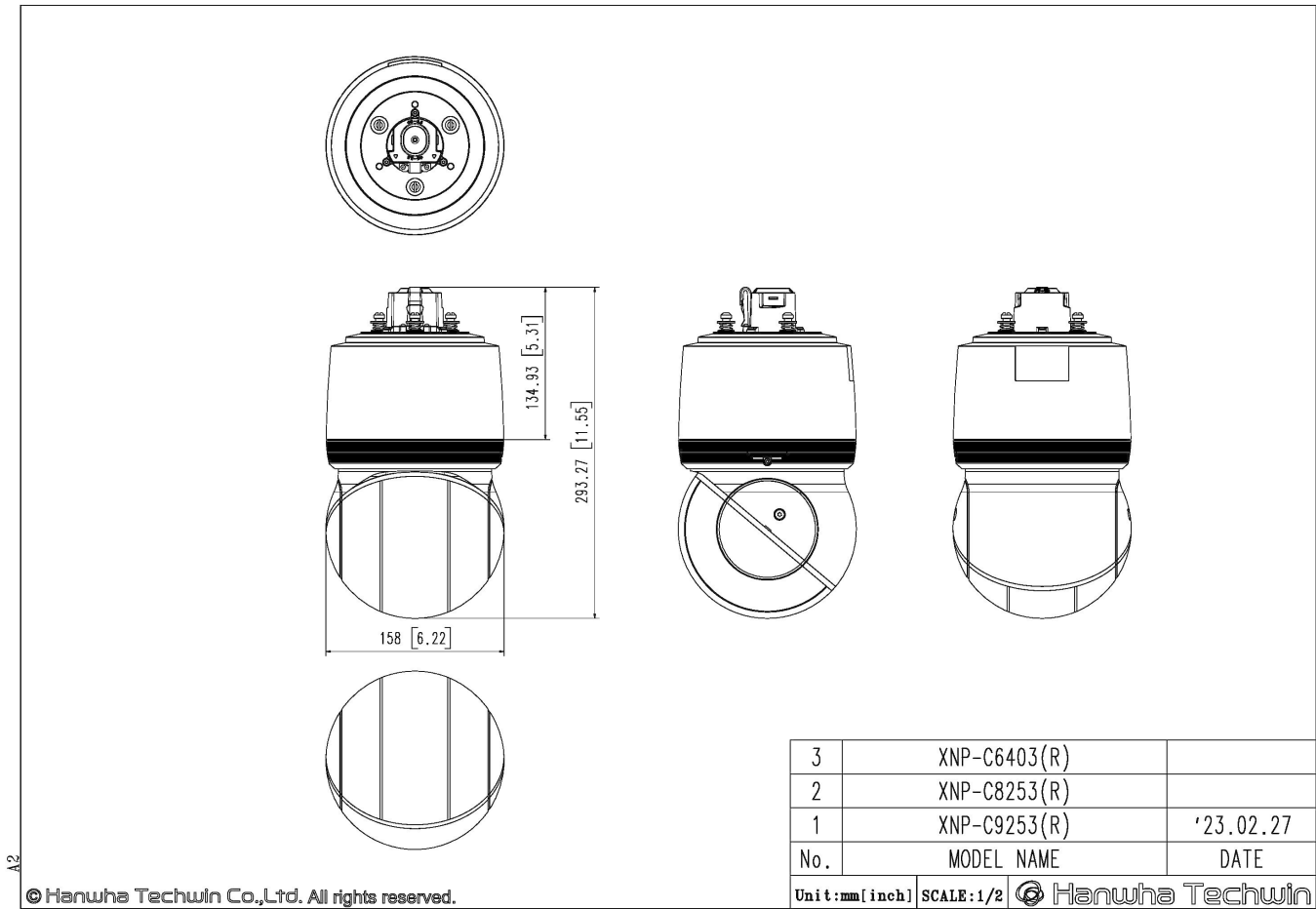
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CAD

Unit:mm [inch]



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