

Network PTZ

TNP-A9430RWB

8MP robuste PTZ-Kamera mit AI

Key Features

- 8MP Bildauflösung
- 43x Optischer Zoom
- 50°~90° Neigebereich
- 500m IR-Reichweite
- Optische Bildstabilisierung
- Windlast max. 160 mph
- Betriebstemperatur: -50°C~+60°C(-58°F~+140°F)
- Klassenbeste Pan/Tilt-Geschwindigkeit (bis zu 160°/s)
- AI-basierte Analysen und Business Intelligence
- IP66, IP68, NEMA4X, NEMA TS-2 (2.2.7.2-8, 2.2.8, 2.2.9)

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Specifications

Video

Bildgebungsgerät	Größe	1/1.8"
	Typ	CMOS
Auflösung		3840x2160, 3328x1872, 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. Beleuchtung (Lux)	Farbe (1/30 Sekunde, 30 IRE)	0.06 Lux(F1.69, 1/30sec, 30 IRE)
	S/W (1/30 Sekunde, 30 IRE)	0.006 Lux(F1.69, IR LED Off), 0Lux (IR LED On)

Linse

Brennweite (mm)		6.1~262.4
Zoom-Verhältnis	Optisch	43
	Digital	1367
Max. Öffnungsverhältnis (F-Zahl)	Weit	F1.69
	Tele	F4.92
Winkel-Sichtfeld	Horizontal	63.62˚(Wide)~1.77˚(Tele)
	Vertikal	37.69˚(Wide)~0.99˚(Tele)
	Diagonal	70.9˚(Wide)~2.05˚(Tele)
Min. Objektabstand		5m(16.4ft)
Fokussteuerung		Auto, Manual, Oneshot AF, Focus save
Linsentyp		P iris(IR corrected)

Schwenken / Neigen / Drehen

Schwenk- / Neigungs- / Drehbereich	Schwenken	360° Endless
	Neigen	Upright: 140°(50°~-90°), Canted: 165°(75°~-90°), Inverted: 140°(90°~-50°)
Schwenkgeschwindigkeit	Voreinstellung	Max. 160°/sec
	Manuell	0.024°/sec~160°/sec

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Schwenken / Neigen / Drehen

Neigungsgeschwindigkeit	Voreinstellung	Max. 160°/sec
	Manuell	0.024°/sec~160°/sec
Reihenfolge		Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Voreingestellte Genauigkeit		±0.07°

Operativ

Richtungsanzeiger		Support
Tag & Nacht		Auto(ICR)
Hintergrundbeleuchtungskompensation		BLC, HLC, WDR, SSDR
Großer Dynamikbereich (dB)		120
Digitale Rauschunterdrückung		WiseNR II (Based on AI engine), SSNR V
Digitale Bildstabilisierung		Support(built-in gyro sensor)
Optische digitale Bildstabilisierung		Support
Entnebeln		Support
Bewegungserkennung	Menge	8ea
	Form	8point Polygonal zones
Datenschutzmaskierung	Menge	32ea
	Form	4point Quadrangle zones
	Farbe / Option	Gray, Green, Red, Blue, Black, White, Mosaic
	Dynamische Datenschutzmaskierung: Farbe / Option	Gray, Green, Red, Blue, Black, White, Mosaic, Purple, Yellow
Verstärkung		Off, Max gain, Manual
Weißabgleich		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium
Elektronischer Verschluss	Modus	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Geschwindigkeitsbereich	2~1/30,000sec
Videodrehung		Flip&Mirror
Installationsrichtung		Upright, Inverted, Canted
Alarmschnittstelle	Andere	Support alarm I/O via optional I/O box
Alarmauslöser		Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription
Alarmereignisse beim Auftreten eines Alarmauslösers		File upload(image): e-mail/FTP, File upload(video clip): FTP/SFTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback, MQTT: publication
Audioeingang		Support via optional I/O box
Audioausgang		Support via optional I/O box
Lichttyp		IR LED

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Operativ

Licht sichtbare Länge	IR	500m(1,640.42ft)
IR-Wellenlänge		850nm
Wasserentfernung		Support(with Wiper)
Enteisung		Window, Pan
Auto-Tracking		Support, Object auto tracking(Person/Vehicle), Target lock tracking

Analysen

Klassifizierter Objekttyp		Person, Face, Vehicle, License plate
Attribute	Person	Upper/Lower clothes color, Gender, Bag
	Fahrzeug	Type(car, bus, truck, motorcycle, bicycle), Color
	Gesicht	Age, Gender, Face mask, Glasses
Vorschaubild		BestShot
Analyseereignisse	Basierend auf KI-Engine	Object detection, Virtual line(Crossing/Direction), Motion detection, Slip & fall detection, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Auto tracking
	Normal	Tampering, Audio detection, Shock detection

Netzwerk

Ethernet		RJ-45 Push-pull Connector(10/100BASE-T)
Videokomprimierung		H.265/H.264: Main/Baseline/High, MJPEG
Intelligenter Codec		WiseStream(Based on AI engine)
Bitratenkontrolle		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Mehrfach-Streaming	Up to 10 profiles
Protokoll		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, Syslog
Anwendungsprogrammierschnittstelle	ONVIF	S, G, T, M
	Andere	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direkte Cloud-Verbindung		Support

Sicherheit

Betriebssystem- / Firmware-Schutz	Encrypted firmware, Secure boot, Signed firmware
Benutzerauthentifizierung	Digest authentication, Prevent brute-force attack
Netzwerkauthentifizierung	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Sichere Kommunikation	HTTPS, WSS(WebSocket Secure), SRTP
Zugangskontrolle	IP-based access control, MAC-based access control, Auto logout
Datenschutz	Encryption credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management

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Sicherheit

Geräte-ID	Device certificate(Hanwha Vision Root CA)
Sichere Speicherung	SDcard partition encrypt(AES-256), Secure element
Sicherheit der Lieferkette	SBOM
Sicherheitszertifikat	Secure element(FIPS 140-3 level3, CC EAL6+), ETSI EN 303 645

Allgemein

SoC	Type	Wisenet 9
	Dual NPU	Support
Speicher	RAM	4GB
	Flash	8GB eMMC
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 1slot
Edge Storage (OnCloud)	Micro SD/SDHC/SDXC	Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.

Umwelt & Elektrik

Betriebsbedingung	Temperatur	-50°C~+60°C(-58°F~+140°F)
	Luftfeuchtigkeit	0~100% RH(condensing)
	Andere	+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
Lagerbedingung	Temperatur	-50°C~+60°C(-58°F~+140°F)
	Luftfeuchtigkeit	0~90% RH(non-condensing)
Windlast		Sustained 257km/h (160mph)
EPA (Effective Projected Area, Effektive projizierte Fläche)		0.095㎡
Eingangsspannung		HPoE(IEEE802.3bt type4, Class8)
Stromverbrauch	PoE	Max 71W, Typical 33.2W
Wisepower		Power mode, Power monitoring, ECO mode

Mechanisch

Farbe		Black
Material		Aluminum, PC(Polycarbonate), ITO Glass
Materialwirtschaft	Erklärung	RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018), REACH(Regulation (EC) No. 1907/2006), Conflict mineral policy(Section 1502 of US Dodd Frank Act)
RAL-Code		RAL9005
Produktabmessungen		Upright Normal/Inverted : 293.4(W)x205.6(D)x399.9(H)mm (11.55x8.09x15.74") Upright Canted : 293.4(W)x301.9(D)x363.6.9(H)mm (11.55x11.89x14.31")
Produktgewicht		10.5kg(9.5kg: Excluding installation part)

Zertifizierungen & Standards

EMV	EN 50121-4, FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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, EN 55035

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Zertifizierungen & Standards

Sicherheit	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471, IEC/EN/UL 62368-1 GS UL cUL CE FCC VCCI CB
Umwelt	IEC 60529 IP66, IEC 60529 IP68, IEC 62262 IK10, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), NEMA 250 type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, MIL-STD-810H 501.7, MIL-STD-810H 502.7, MIL-STD-810H 503.7, MIL-STD-810H 505.7, MIL-STD-810H 506.6, MIL-STD-810H 507.6, MIL-STD-810H 509.7, MIL-STD-810H 510.7, MIL-STD-810H 521.4, IEC 60068-2-52:2017, NEMA TS2, 2.1.9, NEMA TS2, 2.1.10, NEMA TS2, 2.2.4, NEMA 250, 5.6, ASTM B117

DORI (Norm EN62676-4)

Erkennen (25PPM/ 8PPF)	Breit	123.8m(406.23ft)
	Tele	4972m(16311ft)
Beobachten (63PPM/ 19PPF)	Breit	49.5m(162.49ft)
	Tele	1989m(6525ft)
Erkennen (125PPM/ 38PPF)	Breit	24.8m(81.25ft)
	Tele	994.3m(3262ft)
Identifizieren (250PPM/ 76PPF)	Breit	12.4m(40.62ft)
	Tele	497.2m(1631ft)

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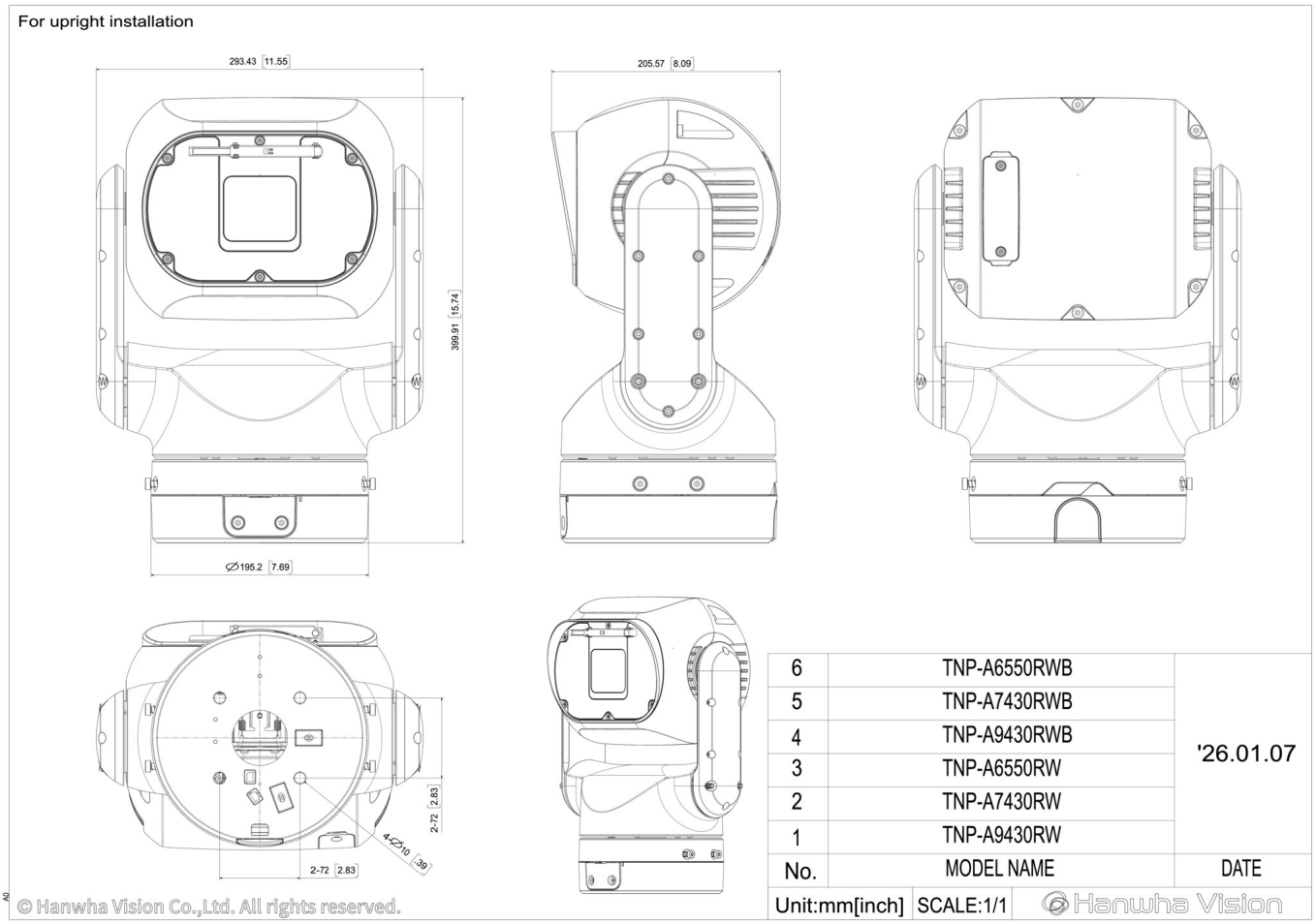
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CAD

Unit: mm [inch]



6	TNP-A6550RWB	'26.01.07
5	TNP-A7430RWB	
4	TNP-A9430RWB	
3	TNP-A6550RW	
2	TNP-A7430RW	
1	TNP-A9430RW	
No.	MODEL NAME	DATE
Unit:mm[inch]	SCALE:1/1	Hanwha Vision

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Compatible Devices



SBP-004PBB



SBP-004WMB



SBP-150PMW



SBP-156KMW



SPP-K004EP



SPP-C00402EP



SPP-C00405EP



SPP-C00410EP

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