

Network PTZ

TNP-A9430RWB

Telecamera PTZ robusta da 8MP con Intelligenza Artificiale

Key Features

- 8MP Risoluzione dell'immagine
- 43x Zoom ottico
- 50°~90° Intervallo di inclinazione
- 500m Portata IR
- Stabilizzazione ottica dell'immagine
- alla velocità massima del vento pari a 257 km/h (160 mph)
- Temperatura operativa: -50°C~+60°C (-58°F~+140°F)
- Velocità Pan/Tilt migliore della categoria (fino a 160°/s)
- Analisi e Business Intelligence basate su Intelligenza Artificiale
- IP66, IP68, NEMA4X, NEMA TS-2 (2.2.7.2-8, 2.2.8, 2.2.9)

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Specifications

Video

Dispositivo di imaging	Dimensioni	1/1.8"
	Tipo	CMOS
Risoluzione		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. Illuminazione (Lux)	Colore (1/30 sec, 30IRE)	0.06 Lux(F1.69, 1/30sec, 30 IRE)
	B/N (1/30 sec, 30IRE)	0.006 Lux(F1.69, IR LED Off), 0Lux (IR LED On)

Ottica

Lunghezza focale (mm)		6.1~262.4
Rapporto di zoom	Ottico	43
	Digitale	1367
Rapporto di apertura massimo (numero F)	Grandangolo	F1.69
	Telescopico	F4.92
Campo visivo angolare	Orizzontale	63.62˚(Wide)~1.77˚(Tele)
	Verticale	37.69˚(Wide)~0.99˚(Tele)
	Diagonale	70.9˚(Wide)~2.05˚(Tele)
Minimo Distanza oggetto		5m(16.4ft)
Controllo messa a fuoco		Auto, Manual, Oneshot AF, Focus save
Tipo di Ottica		P iris(IR corrected)

Panoramica / Inclina / Ruota

Intervallo Panoramica / Inclinazione / Rotazione	Panoramica	360° Endless
	Inclina	Upright: 140°(50°~-90°), Canted: 165°(75°~-90°), Inverted: 140°(90°~-50°)
Velocità panoramica	Preimpostato	Max. 160°/sec
	Manuale	0.024°/sec~160°/sec

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Panoramica / Inclina / Ruota

Velocità di inclinazione	Preimpostato	Max. 160°/sec
	Manuale	0.024°/sec~160°/sec
Sequenza		Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Precisione Preimpostato		±0.07°

Efficienza

Indicatore di direzione		Support
Giorno e notte		Auto(ICR)
Compensazione retroilluminazione		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Riduzione digitale del rumore		WiseNR II (Based on AI engine), SSNR V
Stabilizzazione dell'immagine		Support(built-in gyro sensor)
Stabilizzazione dell'immagine ottica		Support
Defog		Support
Rilevamento movimento	Quantità	8ea
	Forma	8point Polygonal zones
Mascheramento della privacy	Quantità	32ea
	Forma	4point Quadrangle zones
	Colore / Opzione	Gray, Green, Red, Blue, Black, White, Mosaic
	Mascheramento dinamico della privacy: Colore / Opzione	Gray, Green, Red, Blue, Black, White, Mosaic, Purple, Yellow
Controllo guadagno		Off, Max gain, Manual
Bilanciamento del bianco		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium
Otturatore elettronico	Modalità	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Intervallo di velocità	2~1/30,000sec
Rotazione video		Flip&Mirror
Direzione di installazione		Upright, Inverted, Canted
Interfaccia allarme	Altri	Support alarm I/O via optional I/O box
Attivazione allarme		Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription
Eventi di allarme quando si è verificata l'attivazione allarme		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
Ingresso audio		Support via optional I/O box
Uscita audio		Support via optional I/O box
Tipo di luce		IR LED

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Efficienza

Lunghezza visibile alla luce	IR	500m(1,640.42ft)
Lunghezza d'onda IR		850nm
Rimozione dell'acqua		Support(with Wiper)
Rimozione del ghiaccio		Window, Pan
Tracciamento automatico		Support, Object auto tracking(Person/Vehicle), Target lock tracking

Analisi

Tipo di oggetto classificato		Person, Face, Vehicle, License plate
Attributi	Persona	Upper/Lower clothes color, Gender, Bag
	Veicolo	Type(car, bus, truck, motorcycle, bicycle), Color
	Volto	Age, Gender, Face mask, Glasses
Miniatura		BestShot
Eventi analitici	Basato su Motore IA	Object detection, Virtual line(Crossing/Direction), Motion detection, Slip & fall detection, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Auto tracking
	Normale	Tampering, Audio detection, Shock detection

Rete

Ethernet		RJ-45 Push-pull Connector(10/100BASE-T)
Compressione video		H.265/H.264: Main/Baseline/High, MJPEG
Codec intelligente		WiseStream(Based on AI engine)
Controllo bitrate		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Streaming multiplo	Up to 10 profiles
Protocollo		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
Interfaccia di programmazione dell'applicazione	ONVIF	S, G, T, M
	Altri	SUNAPI(HTTP API), Hanwha Vision Open Platform
Connessione diretta al cloud		Support

Sicurezza

Protezione OS / Firmware	Encrypted firmware, Secure boot, Signed firmware
Autenticazione utente	Digest authentication, Prevent brute-force attack
Autenticazione di rete	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Comunicazione sicura	HTTPS, WSS(WebSocket Secure), SRTP
Controllo degli accessi	IP-based access control, MAC-based access control, Auto logout
Protezione dei dati	Encryption credentials, Encrypt compress for live recording file export

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Sicurezza

Audit		Access / System / Event Log management
ID dispositivo		Device certificate(Hanwha Vision Root CA)
Archiviazione sicura		SDcard partition encrypt(AES-256), Secure element
Sicurezza supply chain		SBOM
Certificato di sicurezza		Secure element(FIPS 140-3 level3, CC EAL6+), ETSI EN 303 645

Generale

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

Ambientale ed elettrico

Condizione operativa	Temperatura	-50°C~+60°C(-58°F~+140°F)
	Umidità	0~100% RH(condensing)
	Altri	+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
Condizioni di conservazione	Temperatura	-50°C~+60°C(-58°F~+140°F)
	Umidità	0~90% RH(non-condensing)
Carico eolico		Sustained 257km/h (160mph)
EPA (Area Efficace Prevista)		0.095㎡
Tensione di ingresso		HPoE(IEEE802.3bt type4, Class8)
Consumo energetico	PoE	Max 71W, Typical 33.2W
Wisepower		Power mode, Power monitoring, ECO mode

Meccanico

Colore		Black
Materiale		Aluminum, PC(Polycarbonate), ITO Glass
Gestione dei materiali	Dichiarazione	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)
Codice RAL		RAL9005
Dimensioni del prodotto		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")
Peso del prodotto		10.5kg(9.5kg: Excluding installation part)

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Certificazioni e standard

EMC	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
Sicurezza	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471, IEC/EN/UL 62368-1 GS UL cUL CE FCC VCCI CB
Ambientale	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 (norma EN62676-4)

Rilevamento (25PPM / 8PPF)	Grandangolo	123.8m(406.23ft)
	Telescopico	4972m(16311ft)
Osserva (63PPM / 19PPF)	Grandangolo	49.5m(162.49ft)
	Telescopico	1989m(6525ft)
Riconoscimento (125PPM / 38PPF)	Grandangolo	24.8m(81.25ft)
	Telescopico	994.3m(3262ft)
Identifica (250PPM / 76PPF)	Grandangolo	12.4m(40.62ft)
	Telescopico	497.2m(1631ft)

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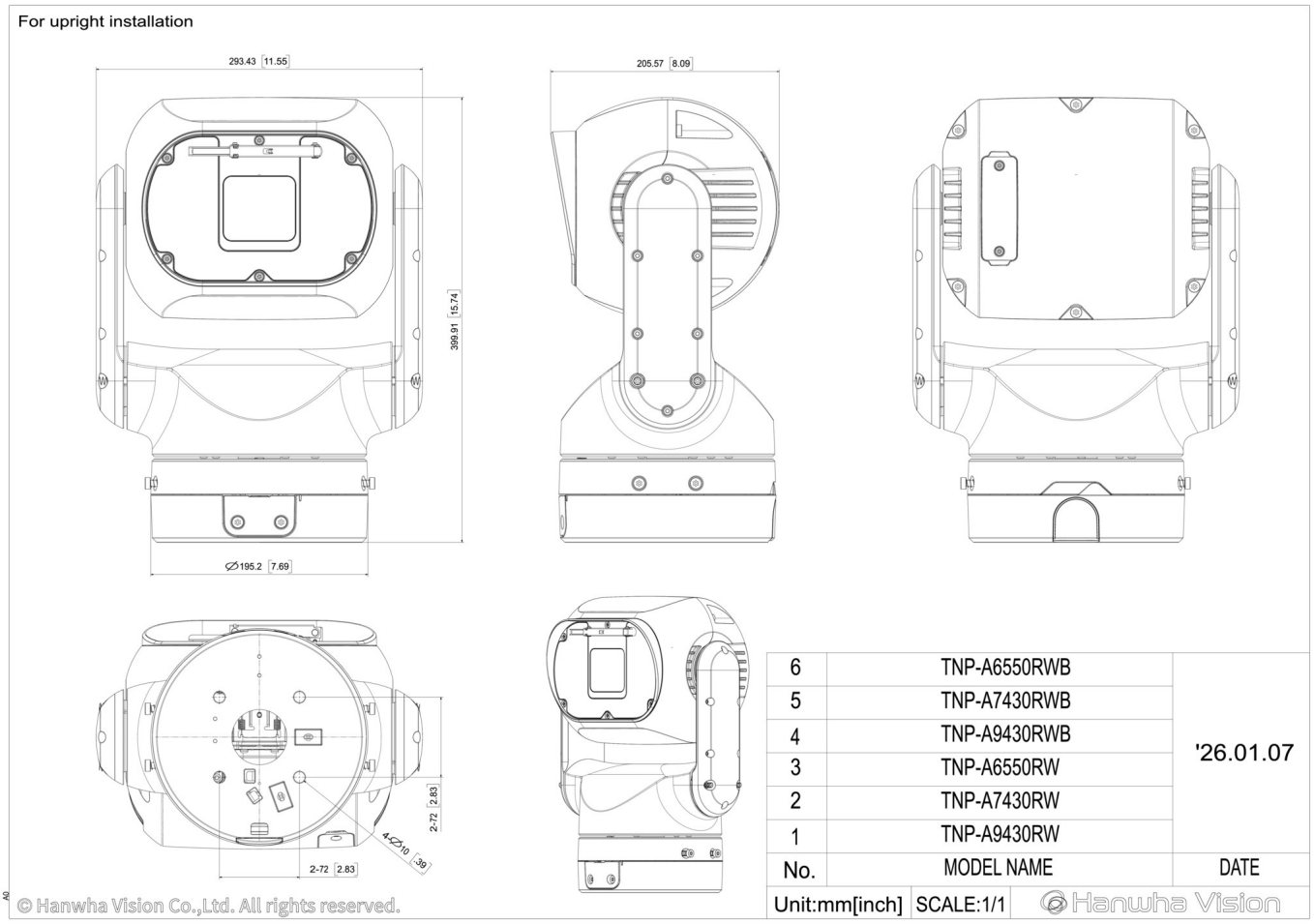
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CAD

Unit: mm [inch]



No.	MODEL NAME	DATE
6	TNP-A6550RWB	'26.01.07
5	TNP-A7430RWB	
4	TNP-A9430RWB	
3	TNP-A6550RW	
2	TNP-A7430RW	
1	TNP-A9430RW	

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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