Network PTZ

TNP-A6550RWB

2MP AI Ruggedised PTZ Camera

Key Features

- Max 2MP 55x
- IP66, IP68, NEMA4X
- IR viewable length 600 m
- NEMA TS-2 (2.2.7.2-8, 2.2.8, 2.2.9)
- Wind load max.160 mph (257km/h)
- Operating temperature : -50 ~60°C
- Analytics events based on AI engine : Object detection (Person/Face/Vehicle/License plate),IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion), Slip&Fall detection, Motion detection
- Support BestShot and full attributes
- Support Dynamic Privacy Masking
- extremeWDR, WiseNR II (Based on AI engine), WiseStream (Based on AI engine)
- Support Wisepower (Power monitoring, ECO mode)
- Device certificate (Hanwha Vision Root CA), Secure storage (Secure element with FIPS 140-3 level3/CC EAL6+ certified), SBOM

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Specifications

Video

Dispositivo di imaging	Dimensioni	1/2.8"
	Tipo	CMOS
Risoluzione		1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	60fps/50fps(60Hz/50Hz)(WDR off) / 30fps/25fps(60Hz/50Hz)(WDR on)
	MJPEG	30fps
Min. Illuminazione (Lux)	Colore (1/30 sec, 30IRE)	0.02Lux(F1.6, 1/30sec)
	B/N (1/30 sec, 30IRE)	0.002 lux (1/30sec,F1.6), 0Lux(IR LED On)

Ottica

Lunghezza focale (mm)		4.75~261.4
Rapporto di zoom	Ottico	55
	Digitale	1760
Rapporto di apertura massimo (numero F)	Grandangolo	F1.6
	Telescopico	F6.5
Campo visivo angolare	Orizzontale	58.6˚(Wide)~1.23˚(Tele)
	Verticale	34.8˚(Wide)~0.71˚(Tele)
	Diagonale	65.5˚(Wide)~1.39˚(Tele)
Minimo Distanza oggetto		5m(16.4ft)
Controllo messa a fuoco		Auto, Manual, Oneshot AF, Focus save
Tipo di Ottica		DC auto iris

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
Velocità di inclinazione	Preimpostato	Max. 160°/sec
	Manuale	0.024°/sec~160°/sec

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Panoramica / Inclina / Ruota

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)
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
Lunghezza visibile alla luce	IR	600m(1,968.50ft)
Lunghezza d'onda IR		850nm
Rimozione dell'acqua		Support(with Wiper)

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Efficienza

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
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

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Sicurezza

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 28.3W
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		10.4kg(9.4kg: Excluding installation part)

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

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Certificazioni e standard

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	68.4m(224.5ft)
	Telescopico	3577.4m(11736.7ft)
Osserva (63PPM / 19PPF)	Grandangolo	27.4m(89.8ft)
	Telescopico	1430.9m(4694.7ft)
Riconoscimento (125PPM / 38PPF)	Grandangolo	13.7m(44.9ft)
	Telescopico	715.5m(2347.3ft)
Identifica (250PPM / 76PPF)	Grandangolo	6.8m(22.5ft)
	Telescopico	357.7m(1173.7ft)

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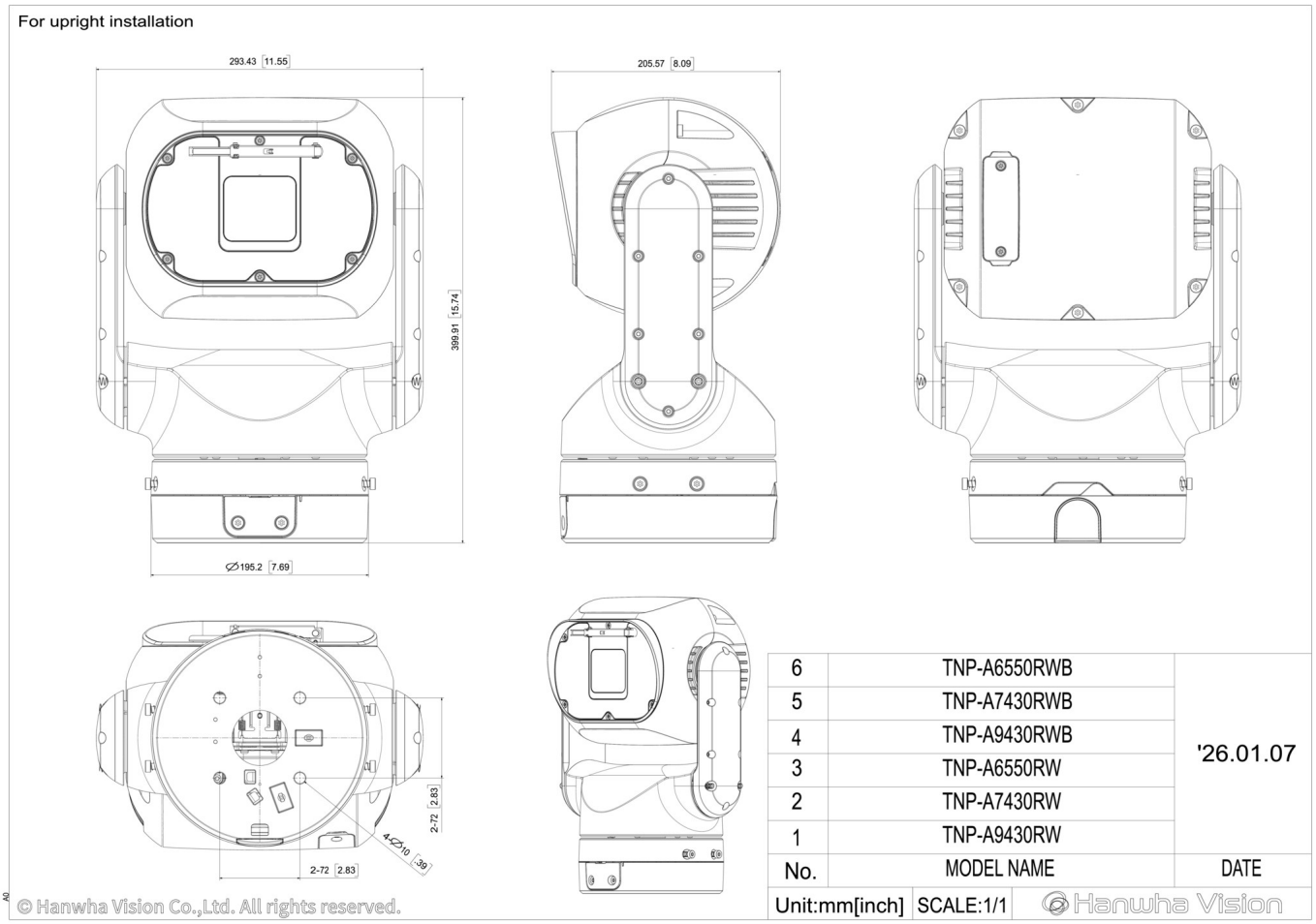
CAD

Unit: mm [inch]



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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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