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

Görüntüleme Aygıtı	Boyut	1/2.8"
	Tür	CMOS
Çözünürlük		1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
En Fazla Kare hızı	H.265/H.264	60fps/50fps(60Hz/50Hz)(WDR off) / 30fps/25fps(60Hz/50Hz)(WDR on)
	MJPEG	30fps
Min. Aydınlatma (Lüks)	Renk(1/30sn, 30IRE)	0.02Lux(F1.6, 1/30sec)
	SB(1/30sn, 30IRE)	0.002 lux (1/30sec,F1.6), 0Lux(IR LED On)

Lens

Odak Uzunluğu (mm)		4.75~261.4
Yakınlaştırma Oranı	Optik	55
	Dijital	1760
Maks. Diyafram Açıklığı Oranı (F numarası)	Geniş	F1.6
	Tele	F6.5
Açısal Görüş Alanı	Yatay	58.6˚(Wide)~1.23˚(Tele)
	Dikey	34.8˚(Wide)~0.71˚(Tele)
	Diyagonal	65.5˚(Wide)~1.39˚(Tele)
Min. Nesne Mesafesi		5m(16.4ft)
Odak Kontrolü		Auto, Manual, Oneshot AF, Focus save
Lens Tipi		DC auto iris

Pan / Tilt / Döndürme

Pan / Tilt / Döndürme Aralığı	Pan	360° Endless
	Tilt	Upright: 140°(50°~-90°), Canted: 165°(75°~-90°), Inverted: 140°(90°~-50°)
Pan Hızı	Önayar	Max. 160°/sec
	Manuel	0.024°/sec~160°/sec

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Pan / Tilt / Döndürme

Tilt Hızı	Önayar	Max. 160°/sec
	Manuel	0.024°/sec~160°/sec
Sıra		Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Önayar Hassasiyeti		±0.07°

İşletimsel

Yön Göstergesi		Support
Gündüz ve Gece		Auto(ICR)
Arka Işık Dengeleme		BLC, HLC, WDR, SSDR
Geniş Dinamik Aralık (dB)		120
Dijital Gürültü Azaltma		WiseNR II (Based on AI engine), SSNR V
Dijital Görüntü Sabitleme		Support(built-in gyro sensor)
Sis Giderme		Support
Hareket Algılama	Miktar	8ea
	Şekil	8point Polygonal zones
Gizlilik Maskesi	Miktar	32ea
	Şekil	4point Quadrangle zones
	Renk / Seçenek	Gray, Green, Red, Blue, Black, White, Mosaic
	Dinamik Gizlilik Maskesi: Renk / Seçenek	Gray, Green, Red, Blue, Black, White, Mosaic, Purple, Yellow
Kazanç Kontrolü		Off, Max gain, Manual
Beyaz Dengesi		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium
Elektronik Obtüratör	Mod	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Hız Aralığı	2~1/30,000sec
Video Döndürme		Flip&Mirror
Kurulum Yönü		Upright, Inverted, Canted
Alarm Arayüzü	Diğer	Support alarm I/O via optional I/O box
Alarm Tetikleyiciler		Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription
Alarm Tetikleyici Gerçekleştiğinde Alarm Olayları		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
Ses Girişi		Support via optional I/O box
Ses Çıkışı		Support via optional I/O box
Işık Türü		IR LED
Işık Görüntülenebilir Uzunluğu	IR	600m(1,968.50ft)

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İşletimsel

IR Dalga Boyu	850nm
Su Giderme	Support(with Wiper)
Buz Giderme	Window, Pan
Otom. İzleme	Support, Object auto tracking(Person/Vehicle), Target lock tracking

Analiz Araçları

Sınıflandırılmış Nesne Türü		Person, Face, Vehicle, License plate
Öznitelikler	Kişi	Upper/Lower clothes color, Gender, Bag
	Araç	Type(car, bus, truck, motorcycle, bicycle), Color
	Yüz	Age, Gender, Face mask, Glasses
Küçük resim		BestShot
Analiz Araçları Olayları	AI Motoru Bazında	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

Ağ

Ethernet		RJ-45 Push-pull Connector(10/100BASE-T)
Video Sıkıştırma		H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec		WiseStream(Based on AI engine)
Bit Hızı Kontrolü		H.265/H.264: CBR or VBR, MJPEG: VBR
Yayın akışı	Unicast	Up to 20 users
	Multicast	Support
	Çoklu Yayın Akışı	Up to 10 profiles
Protokol		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
Uygulama Programlama Arayüzü	ONVIF	S, G, T, M
	Diğer	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direkt Bulut Bağlantısı		Support

Güvenlik

İS / Yerleşik Yazılım Koruması	Encrypted firmware, Secure boot, Signed firmware
Kullanıcı kimlik doğrulaması	Digest authentication, Prevent brute-force attack
Ağ kimlik doğrulaması	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Güvenli İletişim	HTTPS, WSS(WebSocket Secure), SRTP
Erişim Denetimi	IP-based access control, MAC-based access control, Auto logout
Veri Koruması	Encryption credentials, Encrypt compress for live recording file export
Denetim	Access / System / Event Log management

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Güvenlik

Aygıt Kimliği	Device certificate(Hanwha Vision Root CA)
Güvenli Depolama	SDcard partition encrypt(AES-256), Secure element
Tedarik Zinciri Güvenliği	SBOM
Güvenlik Sertifikası	Secure element(FIPS 140-3 level3, CC EAL6+), ETSI EN 303 645

Genel

SoC	Type	Wisenet 9
	Dual NPU	Support
Bellek	RAM	4GB
	Flaş	8GB eMMC
Kenar Depolama	Mikro SD/SDHC/SDXC	Max. 1TB x 1slot
Kenar Depolama (OnCloud)	Mikro SD/SDHC/SDXC	Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.

Çevresel ve Elektriksel

Çalışma Koşulu	Sıcaklık	-50°C~+60°C(-58°F~+140°F)
	Nemlilik	0~100% RH(condensing)
	Diğer	+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
Depolama Koşulu	Sıcaklık	-50°C~+60°C(-58°F~+140°F)
	Nemlilik	0~90% RH(non-condensing)
Rüzgar Yükü		Sustained 257km/h (160mph)
EPA (Etkili Planlanan Alan)		0.095㎡
Giriş Voltajı		HPoE(IEEE802.3bt type4, Class8)
Güç Tüketimi	PoE	Max. 71W, typical 28.3W
Wisepower		Power mode, Power monitoring, ECO mode

Mekanik

Renk		Black
Malzeme		Aluminum, PC(Polycarbonate), ITO Glass
Malzeme Yönetimi	Beyanname	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 Kodu		RAL9005
Ürün Boyutları		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")
Ürün Ağırlığı		10.4kg(9.4kg: Excluding installation part)

Sertifikasyonlar ve Standartlar

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

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Sertifikasyonlar ve Standartlar

Emniyet	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471, IEC/EN/UL 62368-1 GS UL cUL CE FCC VCCI CB
Ortam	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 (EN62676-4 standardı)

Algılama (25PPM/ 8PPF)	Geniş	68.4m(224.5ft)
	Tele	3577.4m(11736.7ft)
Gözlemleme (63PPM/ 19PPF)	Geniş	27.4m(89.8ft)
	Tele	1430.9m(4694.7ft)
Tanıma (125PPM/ 38PPF)	Geniş	13.7m(44.9ft)
	Tele	715.5m(2347.3ft)
Tanımlama (250PPM/ 76PPF)	Geniş	6.8m(22.5ft)
	Tele	357.7m(1173.7ft)

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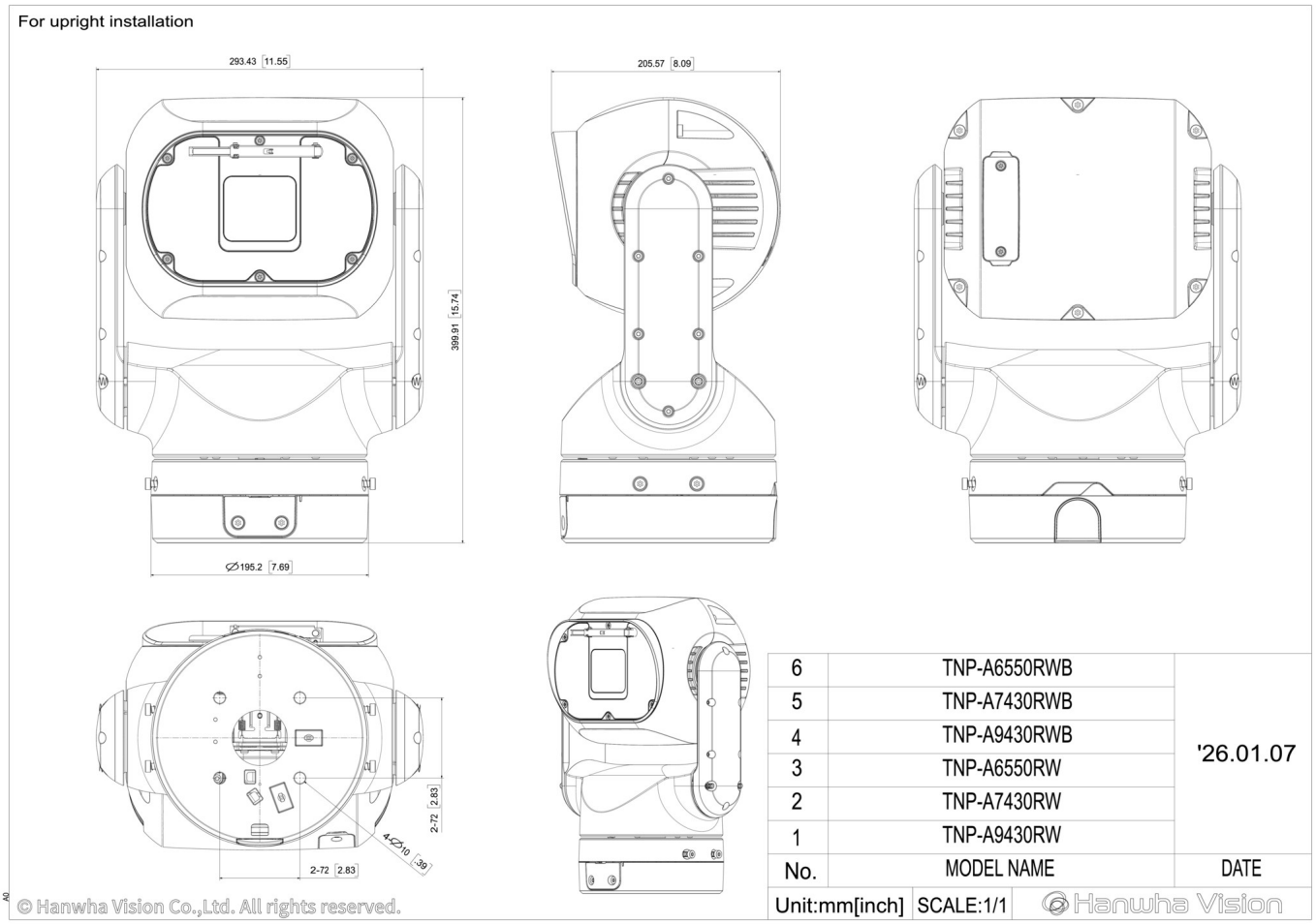
CAD

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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