

Network

PNM-A32084RQZ

Key Features

- 8MP x 4CH Resolution x Ch
- 3.18~7.42mm Focal Length
- 25m IR Length
- IP66, IK10 Rated
- Wisenet 9 Dual-NPU SoC搭載
- 8MPで15フレーム/秒
- 視野角 - H: 108.8°~42.8°/ V: 57.6°~24.1°/ D: 130.8°~49.1°
- デジタルノイズリダクション WiseNR II（AIエンジンに基づく）
- フォーカス外れ検出、改ざん、音声検出、衝撃検出
- 金属シールドRJ-45、ハードコートドームバブル

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Specifications

映像

Imaging Device	サイズ	1/2.8"
	タイプ	CMOS
解像度		3840x2160, 3328x1872, 3072x1728, 2688x1512, 2592x1944, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264	15fps/15fps(60Hz/50Hz)
	MJPEG	15fps(@8MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.12
	BW(1/30sec, 30IRE)	0.012

レンズ

Focal Length (mm)		3.18~7.42
Zoom Ratio	Optical	2.33x
Max Aperture Ratio (F number)	Wide	1.6
	Tele	2.7
視野角度	Horizontal	108.8°~42.8°
	Vertical	57.6°~24.1°
	Diagonal	130.8°~49.1°
Min. Object Distance		1.5m(4.92ft)
Focus Control		シンプルフォーカス
Lens Type		Fixed iris

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	-10°~73°
	回転	-10°~100°

技能

Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC , WDR, SSDR
Wide Dynamic Range (dB)	120

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技能

Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization		サポート
曇り除去		サポート
モーション検知	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	8point Polygonal zones
	Color / Option	灰色, 緑, Red, 青, 黒, 白, モザイク, 紫色, 黄色
	Dynamic Privacy Masking: Color / Option	灰色, 緑, Red, 青, 黒, 白, モザイク, 紫色, 黄色
ゲイン制御		オフ, 最大ゲイン, 手動
ホワイトバランス		ATW, NarrowATW, AWC, 手動, 室内, 屋外
LDC		Support(Fill/stretch mode)
Electronic Shutter	モード	最小, 最大, アンチフリッカー, Prefer shutter control(Based on AI engine)
	Speed Range	2~1/30,000sec
ビデオ回転		FLIPモード, ミラー, Hallway view(90°/270°) - Each channel separately
Alarm Interface	In/Out	2 configurable I/O ports
	その他	Support extra alarm I/O via optional I/O box
Alarm Triggers		分析, ネットワーク切断, アラーム入力, アプリケーションイベント, タイムスケジュール, MQTT購読, ケーステンパリング, デイ/ナイト, ストレージデバイスの停止
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,アラーム出力, Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback, MQTT: publication
オーディオ入力		オプションの I/O ボックスでサポート
オーディオ出力		オプションの I/O ボックスでサポート
Light Type		IR LED
Light Viewable Length	IR	WiseIR PoE++ 25m(82.02ft) / PoE+ 15m(49.21ft)
IR Wavelength		850nm

分析

Classified Object Type		人, 顔, 車両, ナンバープレート
属性	人	Upper/Lower clothes color, 性別, カバン
	車両	Type(car, bus, truck, motorcycle, bicycle), カラー
	顔	年齢, 性別, 顔マスク, メガネ
Similarity Search		Support
サムネイル		ベストショット

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分析

分析イベント	Based on AI Engine	対象物検知, 仮想線（交差·方向）, 仮想領域（ロータリング、侵入、Enter、Exit）, モーション検知, マスク検知, ソーシャルディスタンス検知, 転倒検知, 仮想領域（ロータリング、侵入、Enter、Exit、Appear、Disappear）, Advanced loitering detection, Tailgating detection
	通常	焦点ぼけ検知, タンパリング, 音声検出, 衝撃検知
Business Intelligence	Based on AI Engine	人数カウント, キュー管理, ヒートマップ, 車両カウント, 群衆カウント

ネットワーク

Ethernet		Metal shielded RJ-45(10/100/1000BASE-T)
映像圧縮		H.265/H.264: Main/Baseline/High, MJPEG
Smart codec		WiseStream(Based on AI engine)
ビットレートコントロール		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	最大 20ユーザー
	マルチキャスト	サポート
	Multiple Streaming	最大 5プロファイル, * Each profiles support different resolutions that are not identical
プロトコル		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, SMTP(StartTLS), Syslog
Application Programming Interface	ONVIF	s, G, T, M
	その他	SUNAPI(HTTP API), Hanwha Vision Open Platform

セキュリティ

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
ユーザー認証	ダイジェスト認証, Prevent brute-force attack, LDAP authentication
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP, 802.1AE(MACsec)
Access Control	IP-based access control, MAC-based access control, 自動ログアウト
Data Protect	Encryption credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management
デバイスID	Device certificate(Hanwha Vision Root CA)
Secure Storage	SDcard partition encrypt(AES-256), Secure element
Supply Chain Security	SBOM
Security Certificate	Secure element(FIPS 140-3 level3, CC EAL6+), ETSI EN 303 645, IEC 62443-4-1

一般

SoC	Type	Wisenet 9 (x2)
	Dual NPU	Support
メモリ	RAM	8GB
	フラッシュ	8GB eMMC
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 2slot(Total 2TB)

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Environmental & Electrical

動作条件	温度	-40°C~+55°C(-40°F~+131°F)
	湿度	0~100% RH(condensing)
	その他	+74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Start up should be done at above -20°C
保管条件	温度	-50°C~+60°C(-58°F~+140°F)
	湿度	0~95% RH(non-condensing)
EPA(Effective Projected Area)		0.033m²
Input Voltage		PoE+(IEEE802.3at, Class4), HPoE(IEEE802.3bt, Class5)
消費電力	PoE	Max. 36.5W, typical 23.3W
	その他	PoE+: Max. 25.5W, typical 23.3W
WisePower		電源モード, 電力モニタリング

Mechanical

カラー		白
材料		アルミニウム, Hard-coated dome
Material Management	Declaration	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		RAL9003
Product Dimensions		ø315x129.5(H)mm(ø12.40x5.09")
Product Weight		3800g(8.4lb)
Compatible Conduit Hole		19.1mm(3/4")(M25)
Compatible Gang Box		シングル, Double, 4" Octagon, 正方形
状態LED		サポート

Certifications & Standards

EMC	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
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
環境	IEC/EN 63000, IEC 60529 IP66, IEC 62262 IK10, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), NEMA 250 type 4X

AI Detection Distance

Person(1.8m/5.9ft)	Wide	up to 36m(117ft)
	Tele	up to 92m(301ft)
Vehicle(1.45m/4.8ft)	Wide	up to 47m(155ft)
	Tele	up to 121m(398ft)

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	55m(180.39ft)
	Tele	196m(642.95ft)

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DORI (EN62676-4 standard)

Observe (63PPM/ 19PPF)	Wide	21.8m(72.16ft)
	Tele	77.8m(257.18ft)
Recognize (125PPM/ 38PPF)	Wide	11.0m(36.08ft)
	Tele	39.2m(128.59ft)
Identify (250PPM/ 76PPF)	Wide	5.5m(18.04ft)
	Tele	19.6m(64.29ft)

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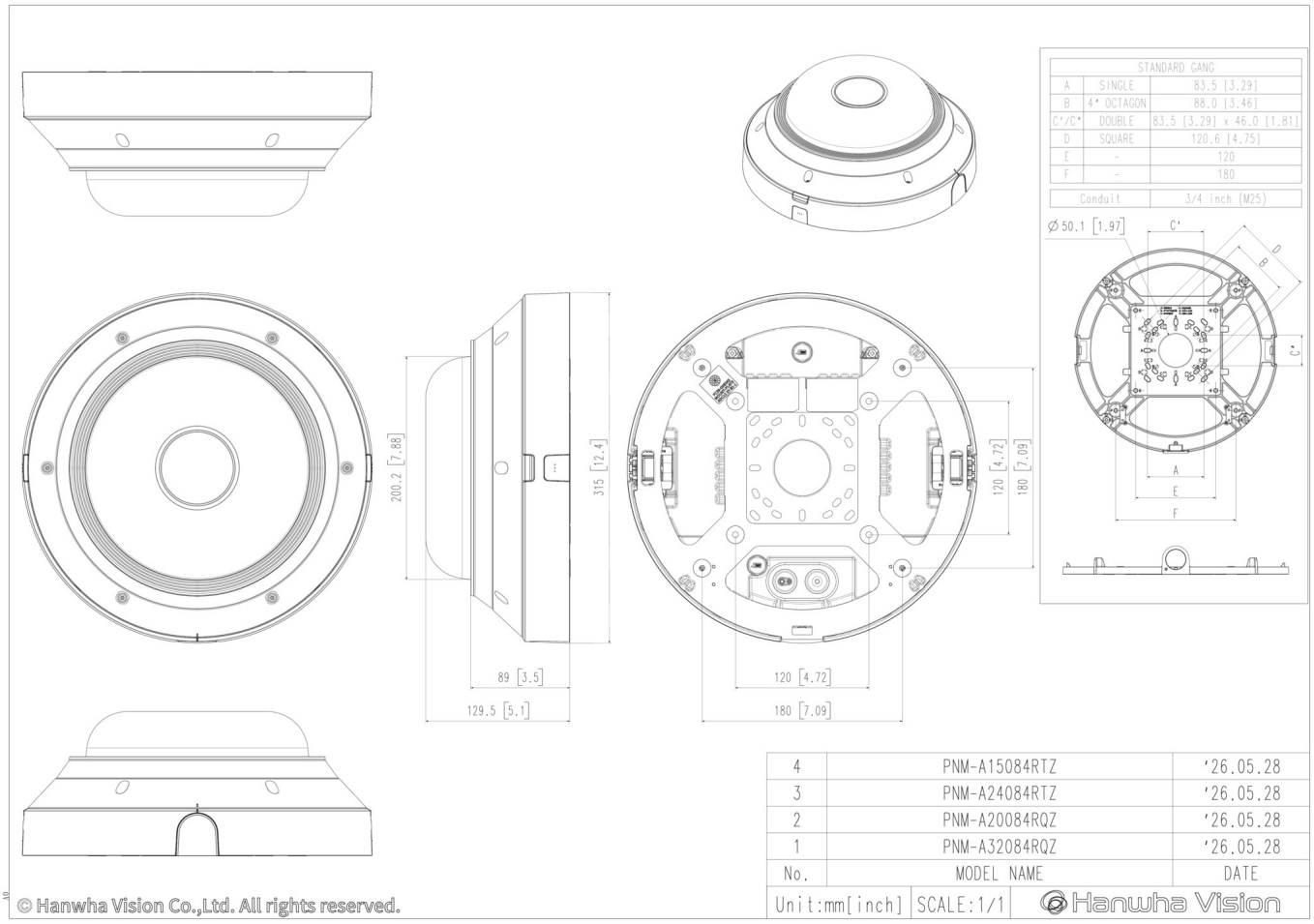
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CAD

Unit: mm [inch]



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Compatible Devices



SBP-140CMB



SBP-180CMB



SBP-180CMS



SBP-150CMP

SBP-300CMP

SBP-900CMP

SBP-C15H



SBP-C15P



SBP-150CMI



SBP-300CMI



SBP-300CMW1



SBP-060S



SBP-900CMW

SBP-300CMTW



SBP-300CMTS



SBP-250WMW



SBP-400WMW



SBP-200WMW



SBP-350WMW



SBP-300WMW



SBP-315C



SBP-315HMW



SBP-300PMW2



SBP-156KMW



SBP-300KMW1



SBP-150NBW



SBP-156LMW1



SPM-4210



SBP-150S

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