

Network

PNM-A20084RQZ

Key Features

- 5MP x 4CH Resolution x Ch
- 3.18~7.42mm Focal Length
- 25m IR Length
- IP66, IK10 Rated
- Wisenet 9 Dual-NPU SoC搭載
- 5MPで毎秒30フレーム
- 視野角 - 水平: 99.8°~39.9°/ 垂直:
- 72.3°~29.9° / 対角: 133.6°~49.9°
- 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、いたずら検出、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		2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@5MP Max. 5fps)
	その他	Max. 20fps in PoE+ mode
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.06
	BW(1/30sec, 30IRE)	0.006

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	99.8°~39.9°
	Vertical	72.3°~29.9°
	Diagonal	133.6°~49.9°
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°~70°
	回転	-10°~100°

技能

Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC , WDR, SSDR

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技能

Wide Dynamic Range (dB)		120
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

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分析

サムネイル		ベストショット
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
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

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一般

Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 2slot(Total 2TB)

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. 38.1W, typical 25.2W
	その他	PoE+: Max. 25.5W, typical 25.2W
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(12.40x5.09")
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 27m(88ft)
	Tele	up to 73m(240ft)
Vehicle(1.45m/4.8ft)	Wide	up to 35m(116ft)
	Tele	up to 97m(318ft)

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DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	43.1m(141.45ft)
	Tele	141.1m(462.77ft)
Observe (63PPM/ 19PPF)	Wide	17.1m(56.58ft)
	Tele	56.0m(185.11ft)
Recognize (125PPM/ 38PPF)	Wide	8.6m(28.29ft)
	Tele	28.2m(92.55ft)
Identify (250PPM/ 76PPF)	Wide	4.3m(14.15ft)
	Tele	14.1m(46.28ft)

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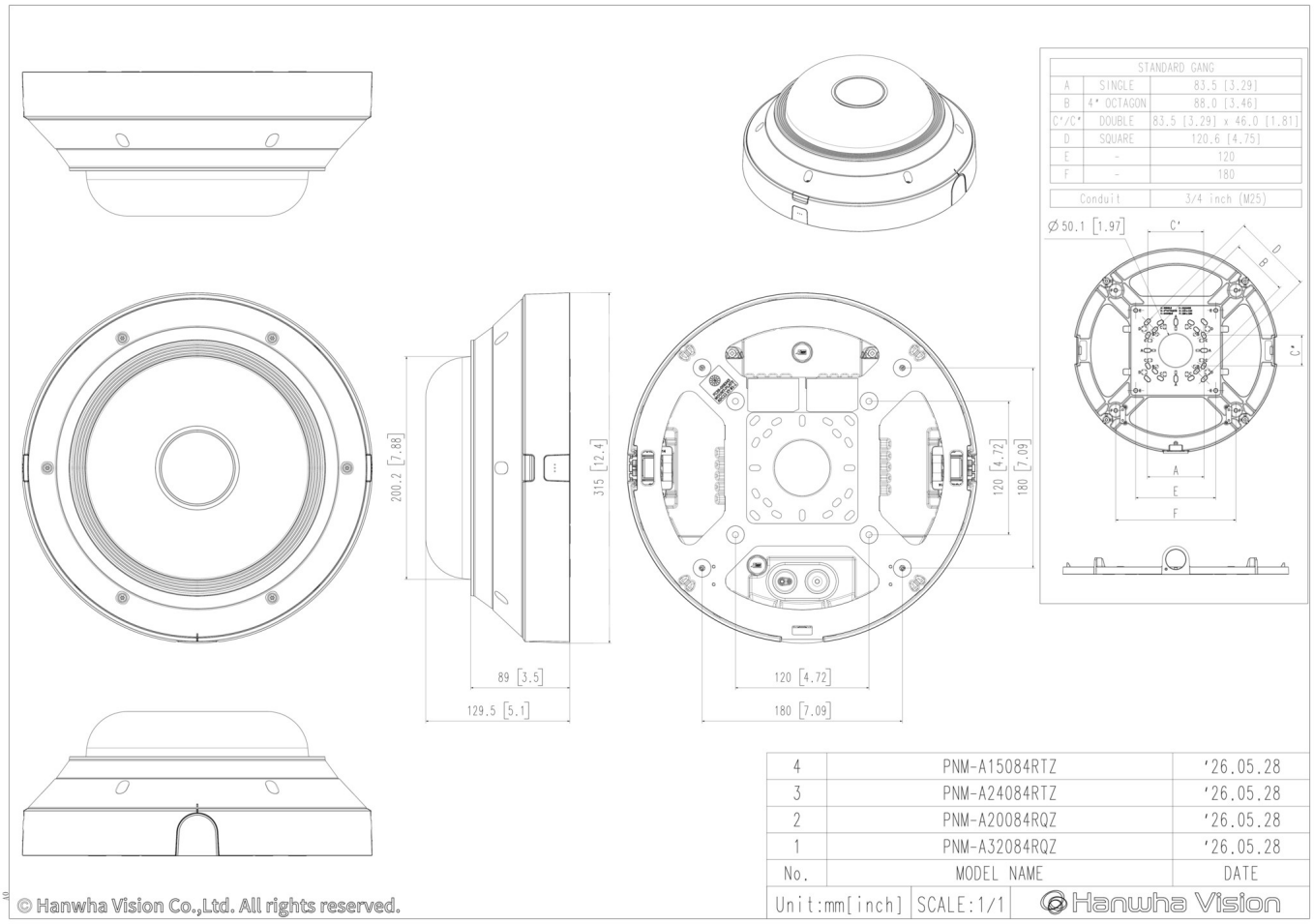
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CAD

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-060S



SBP-300CMI



SBP-300CMTS



SBP-300CMTW



SBP-300CMW1



SBP-900CMW



SBP-250WMW



SBP-400WMW



SBP-200WMW



SBP-350WMW



SBP-300WMW



SBP-315C



SBP-315HMW



SBP-150NBW



SBP-156LMW1



SPM-4210



SBP-150S

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