

Network

PNM-C32083RVQ

4K x 4CH AI IR Multi-directional Camera

Key Features

- 360° Analytics events based on AI engine: Classified object (Person/Face/Vehicle/License plate)
- 360° Attributes search (Vehicle type: Car/Bus/Truck/Motorcycle/Bicycle)
- AI based loitering detection and line crossing detection
- AI based WiseNR II , Auto prefer shutter control, WiseStream III
- Compact size & semi-modular design
- Next level cybersecurity (TPM 2.0 with FIPS 140-2 level2)
- Reinforced durability (IP66, IK10, NEMA4X)

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Specifications

映像

Imaging Device	サイズ	1/2.8"
	タイプ	CMOS
解像度		3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	15fps/15fps(60Hz/50Hz)
	MJPEG	15fps(@8MP Max. 5fps)
	その他	Max. 20fps when AI off(MJPEG@8MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.1
	BW(1/30sec, 30IRE)	0.01
Video Out		USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.

レンズ

Focal Length (mm)		3.3~5.7
Zoom Ratio	Optical	1.7x
Max Aperture Ratio (F number)	Wide	1.5
	Tele	1.9
視野角度	Horizontal	109°~56°
	Vertical	55°~31°
	Diagonal	136°~65°
Min. Object Distance		1.3m(4.27ft)
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	0°~65°
	回転	0°~90°

技能

Day & Night	Auto(ICR)

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技能

Backlight Compensation		BLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
モーション検知	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	6ea
	Shape	Rectangular zones
	Color / Option	灰色, 黒, 白
ゲイン制御		低, 中, 高
ホワイトバランス		ATW, AWC, 手動, 室内, 屋外
LDC		サポート
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	2~1/12,000sec
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
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP, 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		Selectable(mic in/line in)
オーディオ出力		Line out
Light Type		IR LED
Light Viewable Length	IR	PoE+: WiseIR 15m(49.21ft) PoE++: WiseIR 20m(65.62ft)
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
	車両	Type(car, bus, truck, motorcycle, bicycle), カラー
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（ローターリング、侵入、Enter、Exit）
	通常	焦点ぼけ検知, モーション検知, タンパリング, 音声検出, サウンド分類, Virtual area(Appear/Disappear)

ネットワーク

Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)

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ネットワーク

映像圧縮		H.265/H.264: Main/High, MJPEG
Audio Compression		G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz, G.726: 16kbps,24kbps,32kbps,40kbps, AAC-LC: 48kbps at 16kHz
Smart codec		手動, WiseStreamIII
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 10ユーザー
	マルチキャスト	サポート
	Multiple Streaming	最大 3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, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT
Application Programming Interface	ONVIF	s, G, T, M
	その他	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		サポート

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
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, SRTP
Access Control	IP-based access control
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	TPM(Trusted platform module)
Security Certificate	ETSI EN 303 645, IEC 62443-4-1

一般

SoC	Type	CV5
メモリ	RAM	8GB
	フラッシュ	1GB
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 2slot(Total 1TB)
Edge Storage(OnCloud)	Micro SD/SDHC/SDXC	Max. 1TB x 2slots (Total 2TB) *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.

Environmental & Electrical

動作条件	温度	-40°C~+55°C(-40°F~+131°F)
	湿度	0~95% RH(non-condensing)
	その他	Start up should be done at above -35°C, Humidity control with AIR vent

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Environmental & Electrical

保管条件	温度	-50°C~+60°C(-58°F~+140°F)
	湿度	0~90% RH(non-condensing)
Input Voltage		PoE+(IEEE802.3at, Class4), PoE++(IEEE802.3bt type3, Class6)
消費電力	PoE	PoE++: Max. 30W, typical 22W
	その他	PoE+: Max. 25.5W, typical 22W

Mechanical

カラー	白
材料	アルミニウム, Hard-coated dome
RAL Code	RAL9003
Product Dimensions	ø250x114.2mm(9.84x4.50")
Product Weight	2,820g(6.22lb)
Compatible Conduit Hole	19.1mm(3/4")(M25)
Compatible Gang Box	シングル, Double, 4" Octagon, 正方形

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, EN 61000-3-2, EN 61000-3-3, 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 250 type 4X

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	54.8m(179.73ft)
	Tele	144.4m(473.88ft)
Observe (63PPM/ 19PPF)	Wide	21.9m(71.89ft)
	Tele	57.8m(189.55ft)
Recognize (125PPM/ 38PPF)	Wide	11.0m(35.95ft)
	Tele	28.9m(94.78ft)
Identify (250PPM/ 76PPF)	Wide	5.5m(17.97ft)
	Tele	14.4m(47.39ft)

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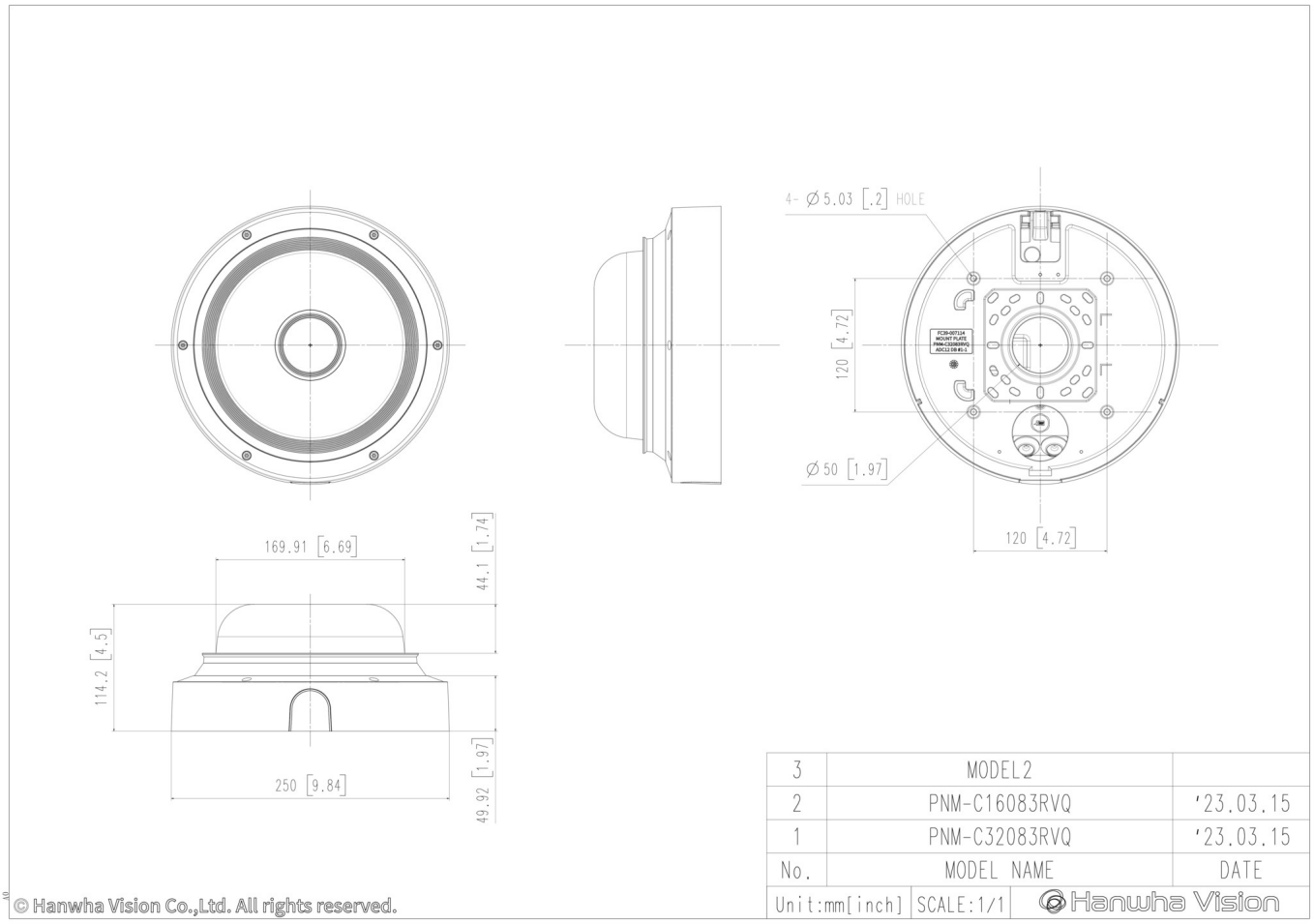
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CAD

Unit: mm [inch]



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