

Network

PNM-C16083RQZ

4MP x 4CH AI IR PTRZ Multi-directional Camera

Key Features

- 4MP x 4 Resolution x Ch
- 3.2~10.2mm Focal Length
- 20m IR Length
- Remote PTRZ Easy Setup
- FoV – H: 93°~29° V: 53°~17° /D: 111°~34°
- AI Based Analytics, BestShot support
- TPM 2.0 with FIPS 140-2 level2
- IP66, IK10, NEMA4X rated

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Specifications

映像

Imaging Device	サイズ	1/2.8"
	タイプ	CMOS
解像度		2592x1520, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@4MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.1
	BW(1/30sec, 30IRE)	0.01

レンズ

Focal Length (mm)		3.2~10.2
Zoom Ratio	Optical	3.2x
Max Aperture Ratio (F number)	Wide	1.6
	Tele	3.1
視野角度	Horizontal	93°~29°
	Vertical	53°~17°
	Diagonal	111°~34°
Min. Object Distance		1.2m(3.93ft)
Focus Control		シンプルフォーカス
Lens Type		P iris

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	30°~90°
	回転	0°~90°
	その他	Remote adjustment(Max. 200cycles)

技能

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

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技能

Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
曇り除去		サポート
モーション検知	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	6ea
	Shape	4point Quadrangle 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	1/5~1/12,000sec
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, ケーステンパリング
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, 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++ 20m(65.62ft) / 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
	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
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, 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, CDP, SRTP(TCP, UDP Unicast), MQTT
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
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	HTTPS, WSS(WebSocket Secure)
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), SDcard partition encrypt(AES-256)
Security Certificate	TPM 2.0 with FIPS 140-2 level2, ETSI EN 303 645, IEC 62443-4-1

一般

SoC	Type	CV5
メモリ	RAM	8GB
	フラッシュ	8GB
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	0~100% RH(condensing)
	その他	Start up should be done at above -35°C, Humidity control with AIR vent
保管条件	温度	-50°C~+60°C(-58°F~+140°F)
	湿度	0~90% RH(non-condensing)

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Environmental & Electrical

EPA(Effective Projected Area)		0.035㎡
Input Voltage		PoE+(IEEE802.3at, Class4), PoE++(IEEE802.3bt type3, Class6)
消費電力	PoE	Max. 41W, typical 22W
	その他	PoE+: Max. 25.5W, typical 22W

Mechanical

カラー	白
材料	アルミニウム, PC(Polycarbonate), Hard-coated dome
RAL Code	RAL9003
Product Dimensions	ø312.7x145.9mm(ø12.31x5.74")
Product Weight	4,400g(9.7lb)
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	49.2m(161.40ft)
	Tele	200.5m(657.65ft)
Observe (63PPM/ 19PPF)	Wide	19.7m(64.56ft)
	Tele	80.2m(263.06ft)
Recognize (125PPM/ 38PPF)	Wide	9.8m(32.28ft)
	Tele	40.1m(131.53ft)
Identify (250PPM/ 76PPF)	Wide	4.9m(16.14ft)
	Tele	20.0m(65.76ft)

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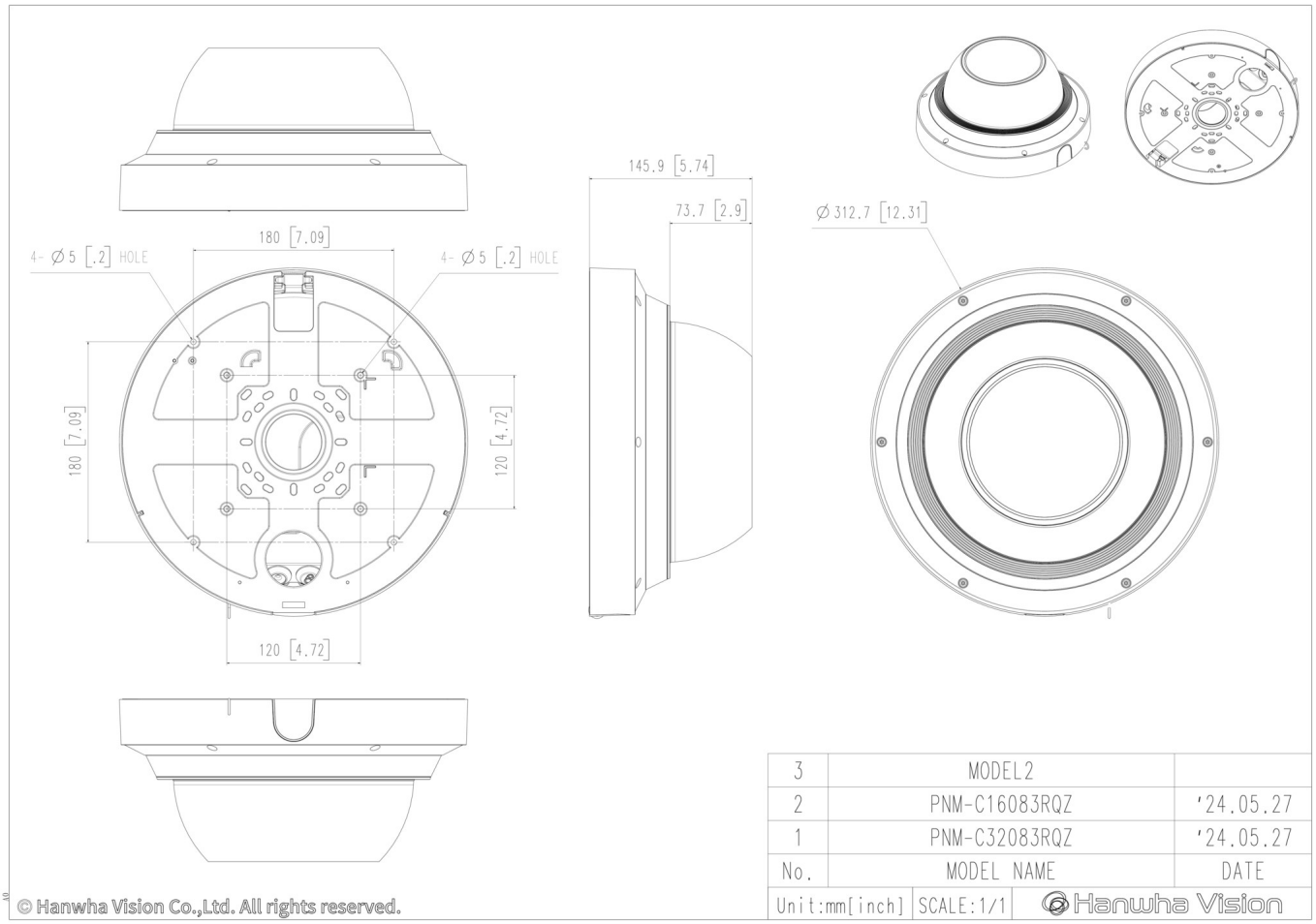
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CAD

Unit: mm [inch]



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Compatible Devices


SBP-315C


SBP-315HMW


SBP-140CMB


SBP-180CMB


SBP-180CMS


SBP-150CMI


SBP-150CMP


SBP-150NBW


SBP-150PMW

SBP-300CMP


SBP-300CMI


SBP-300CMTS


SBP-300CMTW


SBP-300CMW1

SBP-900CMP


SBP-900CMW


SBP-300BW1


SBP-C15P


SBP-250WMW


SBP-400WMW


SBP-115PFA


SBP-300PMW2


SBP-300KMW1


SBP-156KMW


SBP-156LMW1


SBP-300LMW


SBP-300NBW

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