

Network

PNM-C16013RVQ

4CH mini AI Camera

Key Features

· 4CH AI based Analytics events :
classified object (Person/Face/Vehicle/License plate)
· AI based loitering detection and line crossing detection
· AI based WiseNR II , Auto prefer shutter control, WiseStreamIII
· IR viewable length 20m (65.6 ft)
· Supports hallway mode
· 15fps@4MP
· 3.19mm fixed lens
· Next level cybersecurity (TPM 2.0, FIPS 140-2 certified)
· Reinforced durability (IP66, NEMA4X, IK09)

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Specifications

映像

Imaging Device	サイズ	1/2.8"
	タイプ	CMOS
解像度		2592x1520, 1920x1080, 640x360
Max. Framerate	H.265/H.264	15fps/15fps(60Hz/50Hz)
	MJPEG	15fps(@4MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.05
	BW(1/30sec, 30IRE)	0.005
Video Out		USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.

レンズ

Focal Length (mm)		3.19
Max Aperture Ratio (F number)	Wide	1.2
視野角度	Horizontal	97°
	Vertical	54°
	Diagonal	116°
Min. Object Distance		2m(6.56ft)
Focus Control		手動
Lens Type		Fixed iris
Mount Type		M12

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~360°(100° per CH)
	Tilt	0°~75°
	回転	0°~90°

技能

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

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技能

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	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	その他	Support 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, 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	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	車両	Type(car, bus, truck, motorcycle, bicycle)
サムネイル		DetectionShot
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	モーション検知, タンパリング, 音声検出, Virtual area(Appear/Disappear)

ネットワーク

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

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ネットワーク

Streaming	Unicast	最大 10ユーザー
	マルチキャスト	サポート
	Multiple Streaming	最大 4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, 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, 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), 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), SDcard partition encrypt(AES-256)
Security Certificate	TPM 2.0 with FIPS 140-2 level2

一般

メモリ	RAM	4GB
	フラッシュ	512MB
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
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)
消費電力	PoE	Max. 23.5W, typical 13W

Mechanical

カラー	白
材料	アルミニウム, Hard-coated dome

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Mechanical

RAL Code	RAL9003
Product Dimensions	ø200x80mm(7.87x3.15")
Product Weight	1,380g(3.04lb)
Compatible Conduit Hole	Support conduit compatibility via optional adaptor
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, 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 IK09, NEMA 250 type 4X

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	45.9m(150.47ft)
Observe (63PPM/ 19PPF)	Wide	18.3m(60.19ft)
Recognize (125PPM/ 38PPF)	Wide	9.2m(30.09ft)
Identify (250PPM/ 76PPF)	Wide	4.6m(15.05ft)

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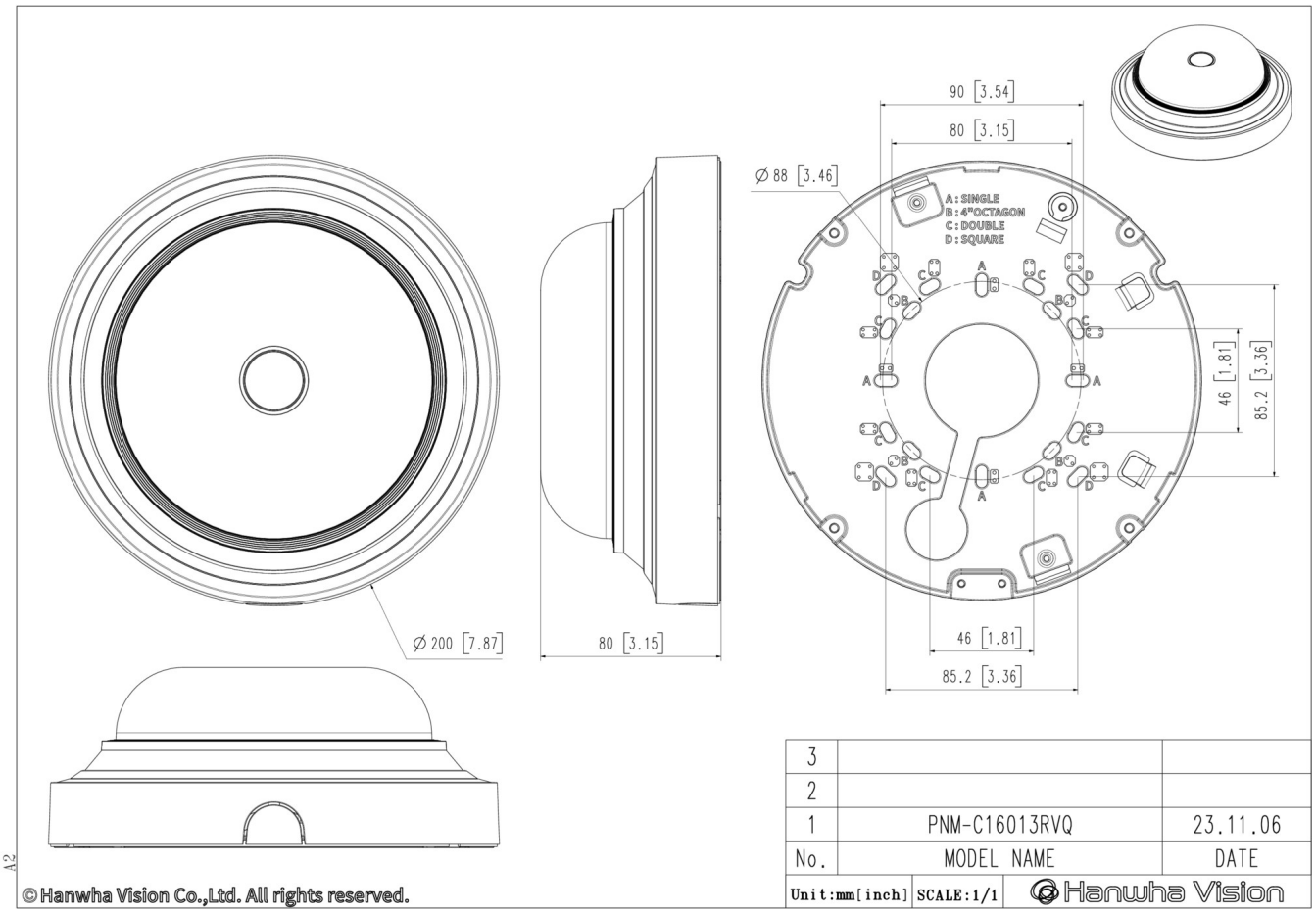
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CAD

Unit: mm [inch]



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