

Network

PNM-A13022RV

13MP AI IR パノラマカメラ

Key Features

- 20m IR Length
- 93° Vertical FOV
- 194° Horizontal FOV
- 13MP Image Resolution
- 水平194°、垂直93°視野
- H.265/H.264/MJPEG 最大30fps
- AIエンジンに基づく分析イベント:
  オブジェクト検出（人物/顔/車両/ナンバープレート）、IVA（仮想ライン/エリア、入退場、徘徊、方向、侵入）、転倒検出、マスク検出、ソーシャルディスタンス検出、動作検出
- AIエンジンに基づくビジネスインテリジェンス:
  人/車両/群衆のカウント、待ち行列管理、ヒートマップ
- BestShotとフル属性をサポート
- WiseNR II（AIエンジンに基づく）、WiseStream（AIエンジンに基づく）
- WiseIR: 赤外線視認距離20m（65.6ft）
- IP66、NEMA4X、IK10
- デバイス証明書（Hanwha Vision Root CA）、
  セキュアストレージ（FIPS 140-3レベル3/CC EAL6+認証のセキュアエレメント）

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

PNM-A13022RV

13MP AI IR パノラマカメラ



Specifications

映像

Imaging Device	サイズ	1/2.8"
	タイプ	CMOS
解像度		5120x2592, 4112x2080, 3240x1640, 2940x1488, 2560x1296, 2016x1016, 1600x800, 1424x720, 1280x648, 1016x512, 832x480, 832x416, 800x600, 640x480
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.1
	BW(1/30sec, 30IRE)	0.01
Video Out		USB: USB Type C. Preview and installation ONLY. Requires WiFi dongle.

レンズ

Focal Length (mm)		3.06
Max Aperture Ratio (F number)	Wide	1.6
視野角度	Horizontal	194°
	Vertical	93°
Min. Object Distance		5m(16.4ft)
Focus Control		Fixed

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	0°~50°

技能

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

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

技能

Privacy Masking	Quantity	4ea
	Shape	Polygonal zones
	Color / Option	灰色, 緑, Red, 青, 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
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
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, タイムスケジュール, MQTT購読
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP/SFTP, File upload(video clip): FTP/SFTP, 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	20m(65.62ft) 4 individual zones with Automatic/Manual level adjustment
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
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
	通常	焦点ぼけ検知, タンパリング, 音声検出, Virtual area(Appear/Disappear)
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
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, OPUS: 48kHz(64kbps)
Smart codec	手動, WiseStream(Based on AI engine)

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

ネットワーク

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 4プロファイル, 3 virtual channel support
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, 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, Prevent brute-force attack
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
Security Certificate	Secure element(FIPS 140-3 level3, CC EAL6+), ETSI EN 303 645

一般

SoC	Type	NT98692
メモリ	RAM	8GB
	フラッシュ	8GB eMMC
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)
保管条件	温度	-50°C~+60°C(-58°F~+140°F)
	湿度	0~90% RH(non-condensing)
EPA(Effective Projected Area)		0.0286 ㎡
Input Voltage		PoE+(IEEE802.3at, Class4), 12VDC
消費電力	PoE	Max 22.3W, typical 11.5W
	12VDC	Max 20.0W, typical 10.0W

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

Environmental & Electrical

電源フェールオーバー	サポート

Mechanical

カラー	白
材料	アルミニウム, Hard-coated dome
RAL Code	RAL9003
Product Dimensions	ø253x170mm(9.96x6.69")
Product Weight	2,800g(6.17lb)
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, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78

AI Detection Distance

Person(1.8m/5.9ft)	Wide	up to 25m(84ft)
Vehicle(1.45m/4.8ft)	Wide	up to 34m(113ft)

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	43.8m(143.85ft)
Observe (63PPM/ 19PPF)	Wide	17.5m(57.54ft)
Recognize (125PPM/ 38PPF)	Wide	8.8m(28.77ft)
Identify (250PPM/ 76PPF)	Wide	4.4m(14.39ft)

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

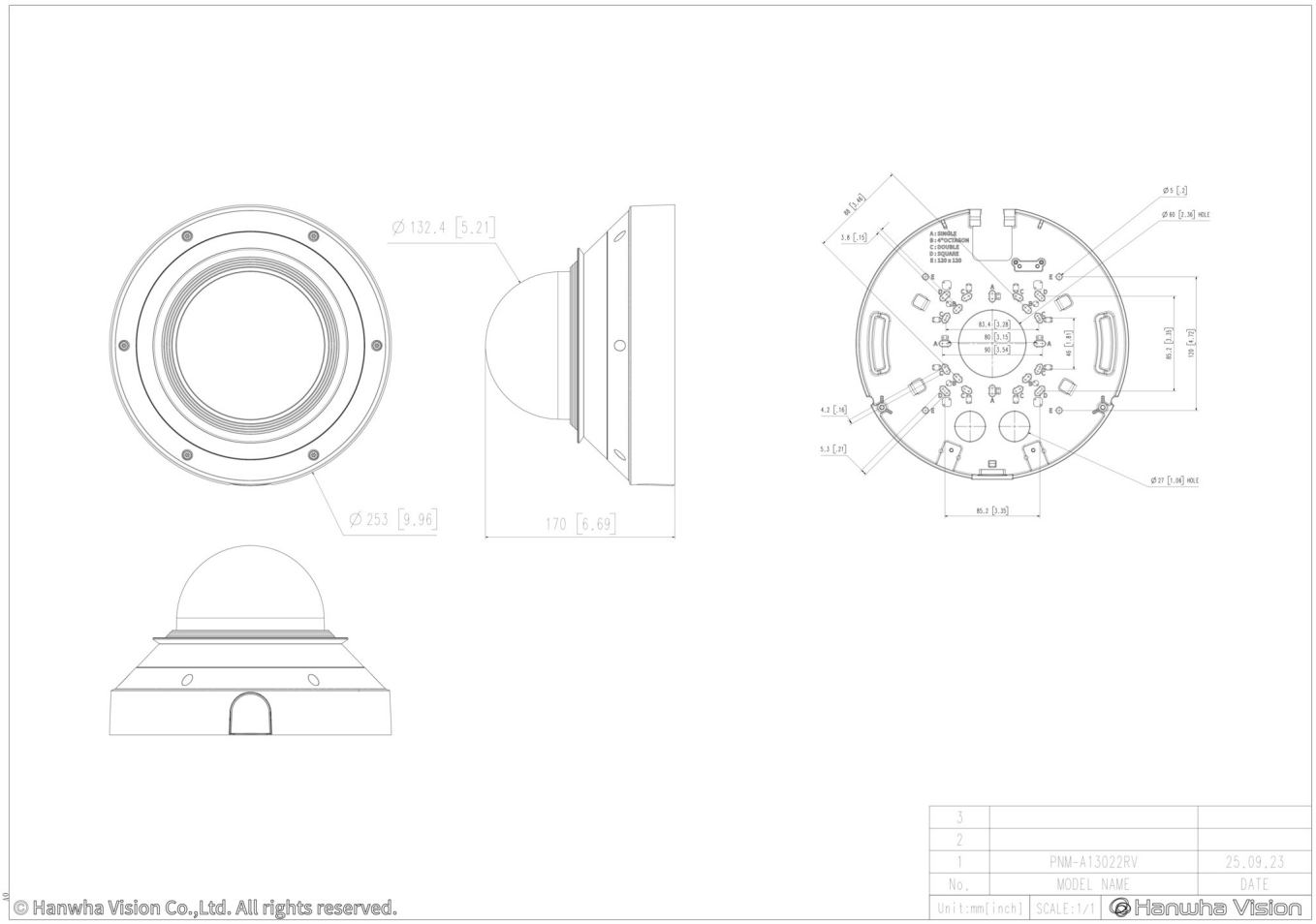
PNM-A13022RV

13MP AI IR パノラマカメラ



CAD

Unit: mm [inch]



© Hanwha Vision Co.,Ltd. All rights reserved.

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.

Compatible Devices


SBP-250HMW


SBP-140CMB


SBP-180CMB


SBP-180CMS


SBP-150CMP

SBP-300CMP

SBP-900CMP


SBP-150CMI


SBP-150NBW


SBP-150PMW


SBP-156KMW


SBP-156LMW1

SBP-C15H


SBP-C15NP


SBP-C15P


SBP-C35H


SBP-115PFA


SBP-060BA


SBP-300BW1

SBP-300CMI


SBP-300CMTS

SBP-300CMTW


SBP-300CMW

SBP-900CMW


SBP-400WMW


SBP-250C

SPB-MDC21W


SBP-300WMW


SBP-300WMW1


SBP-300PMW2


SBP-300KMW1


SBP-300LMW


SBP-300NBW

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
Hanwha Vision is formerly known as Hanwha Techwin.

© Hanwha Vision CO., LTD. All rights reserved.