Hanwha Vision

Network   Multi-sensor

PNM-C34404RQPZ
4K 4Ch PTRZ + 2MP 40x PTZ AI 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, WiseStreamIII
- AI based smart zoom and advanced hand over
- PTRZ remote adjustment
- New design
- Expansion of alarm/audio features
- Next level cybersecurity (TPM 2.0 with FIPS 140-2 level2)
- Reinforced durability (IP66, IK10, NEMA4X)

Compatible Accessories (Optional)

SPM-4210

![Hanwha Vision]

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Specifications

Video	4CH camera	PTZ
Imaging Device	1/2.8" CMOS	
Resolution	3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	[AI On] H.265/H.264: Max. 15fps/15fps(60Hz/50Hz) MJPEG: Max. 15fps/15fps(@8MP Max. 5fps) [AI Off] H.265/H.264: Max. 20fps/20fps(60Hz/50Hz) MJPEG: Max. 20fps/20fps(@8MP Max. 5fps)	H.265/H.264: Max. 60fps/50fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Min. Illumination	Color: 0.1Lux(F1.5, 1/30sec, 30IRE) BW: 0.01Lux(F1.5, 1/30sec, 30IRE), 0Lux(IR LED on)	Color: 0.05Lux(F1.6, 1/30sec, 30IRE) BW: 0.005Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)

Lens		
Focal Length (Zoom Ratio)	3.3~5.7mm(1.7x) motorized varifocal	4.25~170mm(40x) zoom(digital 32x, total 1280x zoom)
Optical Zoom		40x
Max. Aperture Ratio	F1.5(Wide)~F1.9(Tele)	F1.6(Wide)~F4.95(Tele)
Angular Field of View	H: 109°(Wide)~56°(Tele) V: 55°(Wide)~31°(Tele) D: 136°(Wide)~65°(Tele)	H: 65.66°(Wide)~1.88°(Tele) V: 39.40°(Wide)~1.09°(Tele)
Min. Object Distance	1.3m(4.27ft)	5m(16.4ft)
Focus Control	Simple focus	Oneshot AF, Focus save
Lens Type	Fixed iris	DC auto iris

Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Remote adjustment(Max. 200cycles) 0°~360° / 9°~65° / 0°~90° * Tilt angle with Shield IR: 40°~65°	
Pan Range		360° Endless
Pan Speed		Max: 700°/sec, Manual: 0.024°/sec~250°/sec
Tilt Range		0°~110°
Tilt Speed		Max: 500°/sec, Manual: 0.024°/sec~250°/sec
Sequence		Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule
Preset Accuracy		Up to ±0.1°, Pan/Tilt correction

Operational		
Camera Title	Displayed up to 85 characters	
Direction Indicator		Support
Day & Night	Auto(ICR)	
Backlight Compensation	BLC, WDR, SSDR	BLC, HLC, WDR, SSDR

Wide Dynamic Range	120dB	extremeWDR(150dB)
Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)	
Digital Image Stabilization		Support
Defog		Support
Motion Detection	8ea, 8point Polygonal zones	
Privacy Masking	6ea, rectangular zones - Color: Grey/Black/White	32ea, 4point quadrangle zones - Color: Grey/Green/Red/Blue/Black/White - Mosaic
Gain Control	Low / Middle / High	Off / Max Gain / Manual
White Balance	ATW / AWC / Manual / Indoor / Outdoor	ATW / Narrow ATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
LDC	Support	
Electronic Shutter Speed	Minimum / Maximum / Anti flicker(2~1/12,000sec) Prefer shutter control(Based on AI engine)	
Video Rotation	Flip, Mirror, Hallway view(90°/270°) - Each channel separately	Flip, Mirror
Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle) Support BestShot Analytics events based on AI engine - Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Motion detection, Tampering, Virtual area(Appear/Disappear) * Some of the video analytics only works with people and vehicle detection	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit) Analytics events - Defocus detection, Motion detection, Tampering, Virtual area(Appear/Disappear) * Some of the video analytics only works with people and vehicle detection
Alarm I/O	Via optional I/O box SPM-4210	
Alarm Triggers	Analytics, Network disconnect, Alarm input(Via optional I/O box SPM-4210), App event, Schedule, MQTT subscription	
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 - Alarm output(Via optional I/O box SPM-4210) - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) - Smart zoom - MQTT: publication	
Audio In	Via optional I/O box SPM-4210	
Audio Out	Via optional I/O box SPM-4210	
IR Viewable Length	20m(65.62ft)	200m(656.17ft)
Water Removal		Support(Spin dry)
Auto Tracking		Object auto tracking(Person/Vehicle), Target lock tracking

Network		
Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)	
Video Compression	H.265/H.264: Main/High, MJPEG	H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec	Manual(5ea area), WiseStream II , WiseStreamIII(Based on AI engine)	
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control	
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR	
Streaming	Unicast(10 users) / Multicast Multiple streaming(Up to 3 profiles)	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles)

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.

Protocol	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 Profile S/T/M SUNAPI(HTTP API) Hanwha Vision open platform

Security

OS / Firmware Protect	Secure boot, Signed firmware, Firmware encryption
User authentication	Digest Authentication
Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)
Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
Access Control	IP address filtering
Data Protect	Authentication information encryption, ZIP compression encryption
Audit	User Access/System/Event log
Device ID	Device Certificate(Hanwha Private Root CA)
Secure Storage	TPM 2.0

General

Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek	
Edge Storage	Micro SD/SDHC/SDXC 2slot 1TB(512GBx2)	
Memory	8GB RAM, 1GB Flash	4GB RAM, 512MB Flash

Environmental & Electrical

Operating Temperature / Humidity	-40°C~+50°C(-40°F~+122°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~95% RH(non-condensing)
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Wind Load	241km/h(150mph)
EPA(Effective Projected Area)	0.075㎡
Certification	IP66, NEMA4X, IK10
Input Voltage	HPoE(IEEE802.3bt type 4, Class 8)
Power Consumption	HPoE: Max 64.00W, typical 45.00W

Mechanical

Color / Material	White / Aluminum Bubble: Hard-coated dome 4CH and PTZ
RAL Code	RAL9003
Product Dimensions / Weight	ø379.8x301.9mm(ø14.95x11.89"), 7,900g(17.42lb)
Hanging Mount (Dome)	Included

Certifications & Standards

EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 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
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP66, IEC/EN 62262 IK10 NEMA 250 type 4X

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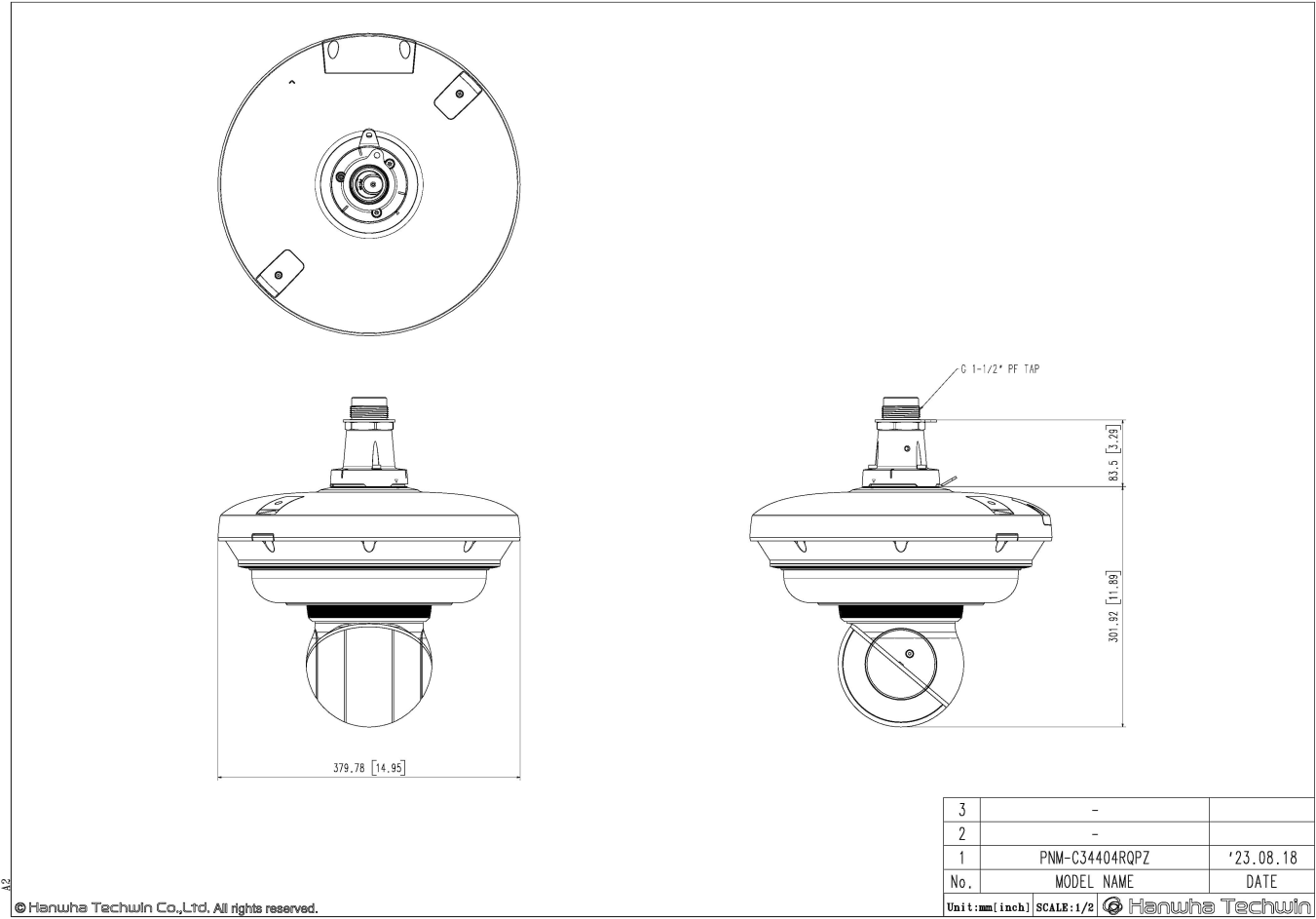| DORI (EN62676-4 standard)		
Detect (25PPM/ 8PPF)	Wide: 54.8m(179.73ft) / Tele: 144.4m(473.88ft)	Wide: 59.5m(195.3ft) / Tele: 2340.4m(7678.4ft)
Observe (63PPM/ 19PPF)	Wide: 21.9m(71.89ft) / Tele: 57.8m(189.55ft)	Wide: 23.8m(78.1ft) / Tele: 936.2m(3071.4ft)
Recognize (125PPM/ 38PPF)	Wide: 11.0m(35.95ft) / Tele: 28.9m(94.78ft)	Wide: 11.9m(39.1ft) / Tele: 468.1m(1535.7ft)
Identify (250PPM/ 76PPF)	Wide: 5.5m(17.97ft) / Tele: 14.4m(47.39ft)	Wide: 6.0m(19.5ft) / Tele: 234.0m(767.8ft)

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CAD

Unit:mm [inch]

3	–	
2	–	
1	PNM-C34404RQPZ	'23.08.18
No.	MODEL NAME	DATE
Unit:mm[inch]	SCALE:1/2	Hanwha Techwin