Hanwha Vision

Network   Multi-sensor

PNM-C32083RQZ

8MP x 4CH Multi-directional Camera

FC | UL LISTED | CE | EHC | NDAA

Key Features

• AI engine-based analysis events:
Object detection (people/faces/vehicles/license plates),
virtual lines (passing/direction),
virtual areas (Loitering/intrusion/entering/exiting)
• Attributes:
Vehicles (Type: car/bus/truck/motorcycle/bicycle, color),
people (clothing color)
• BestShot support
• AI based WiseNR II , Auto prefer shutter control, WiseStreamIII
• PTRZ control: Remotely set lens position/angle
• IR visibility: Up to 25m
• Next level cybersecurity (TPM 2.0 with FIPS 140-2 level2)
• Reinforced durability (IP66, IK10, NEMA4X)

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Specifications

Video

Imaging Device	1/1.8" CMOS x 4CH
Resolution	3840x2160, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
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)
Min. Illumination	Color: 0.07Lux(F1.3, 1/30sec, 30IRE) BW: 0Lux(IR LED on)

Lens

Focal Length (Zoom Ratio)	4.38~9.33mm(2.13x) motorized varifocal
Max. Aperture Ratio	F1.3(Wide)~F2.15(Tele)
Angular Field of View	H: 113°(Wide)~47°(Tele) V: 58°(Wide)~26°(Tele) D: 138°(Wide)~54°(Tele)
Min. Object Distance	1.3m(4.27ft)
Focus Control	Simple focus
Lens Type	P-Iris

Pan / Tilt / Rotate

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

Operational

Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	6ea, 4point quadrangle zones - Color: Gray/Black/White
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / prefer shutter / Anti flicker(1/5~1/12,000sec) Prefer shutter control based on AI engine
Video Rotation	Flip, Mirror, Hallway view(90°/270°) - each CH separately

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Hanwha Vision is formerly known as Hanwha Techwin.

Analytics	Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color), Person (clothing color) 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) * Audio detection, Sound classification(with NW I/O box SPM-4210)
Alarm I/O	2 configurable I/O ports * Support Alarm via optional SPM-4210 I/O box
Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription, Tampering
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 - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - MQTT: publication
Audio In	* Support Audio via optional SPM-4210 I/O box
Audio Out	* Support Audio via optional SPM-4210 I/O box
Light Type	IR LED
IR Viewable Length	WiseIR: PoE++ 25m(82.02ft) / PoE+ 15m(49.21ft)
IR Wavelength	850nm

Network

Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/High, MJPEG
Smart Codec	Manual(5ea area), WiseStreamIII
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(10 users) / Multicast Multiple streaming(Up to 3 profiles per CH)
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, CDP, SRTP(TCP, UDP Unicast), MQTT
Application Programming Interface	ONVIF Profile S/T/G/M SUNAPI(HTTP API) Hanwha vision open platform

Security

OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authenticaton
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
Audit	Access / System / Event Log management
Device ID	Device certificate(Hanwha Vision Root CA)
Secure Storage	TPM, SDcard partition encrypt
Security Certificate	TPM with FIPS 140-2 level 2

General

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

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Environmental & Electrical

Operating Temperature / Humidity	-40°C~+55°C(-40°F~+131°F) / 0~100% RH(condensing) * Start up should be done at above -20°C Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
EPA(Effective Projected Area)	0.035㎡
Certification	IP66, NEMA4X, IK10
Input Voltage	Wisepower(PoE++(IEEE802.3bt type3, Class6) / PoE+(IEEE802.3at type2, Class4))
Power Consumption	PoE++: Max 41.0W, Typical 22.0W PoE+: Max 25.5W, Typical 22.0W

Mechanical

Color / Material	White / Aluminum + PC Bubble: Hard-coated dome
RAL Code	RAL9003
Product Dimensions / Weight	ø312.7x145.9mm(ø12.31x5.74") / 4400g(9.7lb)
Compatible Conduit hole / Gangbox	19.1mm(3/4")(M25) Single, double, 4" octagon, 4" square

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 KS C 9832 Class A , KS C 9835
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

Compatible Models

Hanging Adaptor	SBP-315HMW, SBP-317HMWP
Ceiling Mount (Assy)	SBP-150CMI/300CMI, SBP-300CMW1/900CMW, SBP-300CMTW, SBP-300CMTS
Ceiling Mount (Single Unit)	SBP-180CMB/140CMB, SBP-180CMS, SBP-900CMP/300CMP/150CMP, SBP-C15P, SBP-C15H
Wall Mount	SBP-400WMW/250WMW, SBP-300WMW
Wall Mount Adaptor	SBP-300BW1, SBP-115PFA
Pole Mount	SBP-300PMW2
Corner Mount	SBP-300KMW1, SBP-156KMW
Parapet Mount	SBP-300LMW, SBP-156LMW1
Cabinet	SBP-300NBW, SBP-150NBW
Interface Box	SPM-4210
Other Compatible Models	SBP-315C, SPO-8315

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide: 50.8m(166.77ft) / Tele: 176.6m(579.49ft)
Observe (63PPM/ 19PPF)	Wide: 20.3m(66.71ft) / Tele: 70.7m(231.80ft)
Recognize (125PPM/ 38PPF)	Wide: 10.2m(33.35ft) / Tele: 35.3m(115.90ft)
Identify (250PPM/ 76PPF)	Wide: 5.1m(16.68ft) / Tele: 17.7m(57.95ft)

Hanwha Vision

PNM-C32083RQZ

8MP x 4CH Multi-directional Camera

CAD

Unit:mm [inch]

145.9 [5.74]

73.7 [2.9]

Ø 312.7 [12.31]

180 [7.09]

4- Ø 5 [.2] HOLE

4- Ø 5 [.2] HOLE

180 [7.09]

120 [4.72]

120 [4.72]

3	MODEL2	
2	PNM-C16083RQZ	'24.05.27
1	PNM-C32083RQZ	'24.05.27
No.	MODEL NAME	DATE
Unit:mm[inch]	SCALE:1/1	**Hanwha Vision**

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