



Network

Multi-sensor

PNM-C16083RQZ

4MP x 4CH Multi-directional Camera



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 20m
- Next level cybersecurity (TPM 2.0 with FIPS 140-2 level2)
- Reinforced durability (IP66, IK10, NEMA4X)

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Specifications

Video

Imaging Device	1/2.8" CMOS x 4CH
Resolution	2592x1520, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	H.265/H.264: Max. 30fps MJPEG: Max. 30fps(@4MP Max. 5fps)
Min. Illumination	Color: 0.1Lux(F1.6, 1/30sec, 30IRE) BW: 0.01Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on)

Lens

Focal Length (Zoom Ratio)	3.2~10.2mm(3.2x) motorized varifocal
Max. Aperture Ratio	F1.6(Wide)~F3.1(Tele)
Angular Field of View	H: 93°(Wide)~29°(Tele) V: 53°(Wide)~17°(Tele) D: 111°(Wide)~34°(Tele)
Min. Object Distance	1.2m(3.93ft)
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°
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Operational

Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SDDR
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

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++ 20m(65.62ft) / 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 Authenticon
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

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.

PNM-C16083RQZ
Environmental & Electrical

Operating Temperature / Humidity	-40°C~+55°C(-40°F~+131°F) / 0~100% RH(condensing) * Start up should be done at above -35°C Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
EPA(Effective Projected Area)	0.035m ²
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: 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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CAD

Unit:mm [inch]

