



Network Multi-sensor

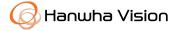
## PNM-C16083RVQ

4MP x 4ch Al Camera



**Key Features** 

- $\bullet$  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
- Compact size & semi-modular design
- Next level cybersecurity (TPM 2.0 with FIPS 140-2 level2)
- Reinforced durability (IP66, IK10, NEMA4X)



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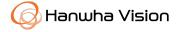






## **Specifications**

Video	
Imaging Device	1/2.8" CMOS x 4CH
Resolution	2592x1520, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(@4MP Max. 5fps)
Min. Illumination	Color: 0.075Lux(F1.5, 1/30sec, 30IRE) BW: 0.0075Lux(F1.5, 1/30sec, 30IRE), 0Lux(IR LED on)
Video Out	USB: Micro USB Type B, 1280x720 for installation
Lens	
Focal Length (Zoom Ratio)	3.3~5.7mm(1.7x) motorized varifocal
Max. Aperture Ratio	F1.5(Wide)~F1.9(Tele)
Angular Field of View	H: 100°(Wide)~53°(Tele) V: 54°(Wide)~30°(Tele) D: 125°(Wide)~61°(Tele)
Min. Object Distance	1.3m(4.27ft)
Focus Control	Simple focus
Lens Type	Fixed iris
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / 0°~65° / 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)
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	6ea, rectangular zones - Color: Grey/Black/White
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
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



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, Audio detection, Sound classification, Virtual area(Appear/Disappear)
Alarm I/O	2 configurable I/O ports * Support extra alarm I/O via optional SPM-4210 I/O box
Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time 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 - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback - MQTT: publication
Audio In	Selectable(mic in/line in)
Audio Out	Line out
IR Viewable Length	WiseIR 15m(49.21ft)
Network	
Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)
Video Compression	H.265/H.264: Main/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
Smart Codec	Manual(5ea area), WiseStream II , WiseStreamIII(Based on AI engine)
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(10 users) / Multicast Multiple streaming(Up to 3 profiles per channel)
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) Wisenet 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
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(Trusted platform module)
Security Certificate	TPM with FIPS 140-2 level 2
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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 Max. 1TB(512GBx2)

Memory 8GB RAM, 1GB Flash **Environmental & Electrical** -40°C~+55°C(-40°F~+131°F) **Operating Temperature / Humidity** \* Start up should be done at above -35°C 0~95% RH(non-condensing) Humidity control /w Air vent Storage Temperature / Humidity -50°C~+60°C(-58°F~+140°F) / 0~90% RH Certification IP66, NEMA4X, IK10 Input Voltage PoE+(IEEE802.3at Type2, Class4) **Power Consumption** PoE+: Max 25.5W, typical 22.0W Mechanical Color / Material Body: White / Aluminum Bubble: Hard-coated dome RAL Code RAI 9003 Product Dimensions / Weight ø250x114.2mm(ø9.84x4.50"), 2730g(6.02 lb) Compatible Conduit hole / Gangbox Conduit hole: 19.1mm(3/4")(M25) Gangbox: Single, Double, 4" Octagon, Square Hanging Mount (Dome) SBP-250HMW, SBP-276HMW 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

 DORI (EN62676-4 standard)
 Vide: 43.5m(142.71ft) / Tele: 104.0m(341.13ft)

 Observe (63PPM/ 19PPE)
 Wide: 17.4m(57.09ft) / Tele: 41.6m(136.45ft)

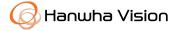
 Observe (63PPM/ 19PPF)
 Wide: 17.4m(57.09ft) / Tele: 41.6m(136.45ft)

 Recognize (125PPM/ 38PPF)
 Wide: 8.7m(28.54ft) / Tele: 20.8m(68.23ft)

 Identify (250PPM/ 76PPF)
 Wide: 4.3m(14.27ft) / Tele: 10.4m(34.11ft)

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



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4MP x 4ch Al Camera







CAD

Unit:mm [inch]

