



Network

PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



Key Features

- Analytics events based on AI engine: Classified object (Person/Face/Vehicle/License plate)
Attributes(vehicle type: Car/Bus/Truck/Motorcycle/Bicycle)
Support BestShot
- WiseNR II, Auto prefer shutter control, WiseStreamIII, extremeWDR (120dB)
- Maximum 1920x1080 resolution
- Maximum 30fps/25fps@2MP
- Color: 0.035lux(F2.2, 1/30sec, 30IRE), 0 Lux (IR LED on)
- 3~6mm(2x) motorized varifocal, 75° tilt angle
- IR viewable length: IR 25m(82ft)
- TPM 2.0(FIPS 140-2 certified)
- IP66, NEMA4X, IK10

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Specifications

Video

Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution	1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.035
	BW(1/30sec, 30IRE)	0.0035
Video Out	USB: Micro USB Type B	

Lens

Focal Length (mm)	3~6	
Zoom Ratio	Optical	2x
Max Aperture Ratio (F number)	Wide	2.2
	Tele	3.1
Angular Field of View	Horizontal	107°~56°
	Vertical	57°~31°
	Diagonal	126°~64°
Min. Object Distance	0.5m(1.64ft)	
Focus Control	Simple focus, Manual	
Lens Type	Fixed iris	

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~355°
	Tilt	0°~78°
	Rotate	0°~180°

Operational

Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSSDR

Operational

Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	6ea
	Shape	4point Quadrangle zones
	Color / Option	Gray, Black, White
Gain Control		Low, Middle, High
White Balance		ATW, AWC, Manual, Indoor, Outdoor
LDC		Support
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Speed Range	1/5~1/12,000sec
Video Rotation		Flip, Mirror, Hallway view(90°/270°) - Each channel separately
Alarm Interface	Others	Support alarm I/O via optional I/O box
Alarm Triggers		Analytics, Network disconnect, Alarm input
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 In		Support via optional I/O box
Audio Out		Support via optional I/O box
Light Type		IR LED
Light Viewable Length	IR	15m(49ft), 25m(82ft) based on scene
IR Wavelength		850nm

Analytics

Classified Object Type		Person, Face, Vehicle, License plate
Attributes	Vehicle	Type(car, bus, truck, motorcycle, bicycle)
Thumbnail		BestShot
Analytics Events	Based on AI Engine	Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit)
	Normal	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Virtual area(Appear/Disappear)

Network

Ethernet		Metal shielded RJ-45(10/100/1000BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec		Manual, WiseStreamIII
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR

Network

Streaming	Unicast	Up to 10 users
	Multicast	Support
	Multiple Streaming	Up to 5 profiles
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)
Application Programming Interface	ONVIF	S, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support

Security

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware	
User authentication	Digest authentication	
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)	
Secure Communication	HTTPS, SRTP	
Access Control	IP-based access control	
Data Protect	Encryption credentials, Encrypt compress for live recording file export	
Audit	Access / System / Event Log management	
Device ID	Device certificate(Hanwha Vision Root CA)	
Secure Storage	TPM(Trusted platform module), SDcard partition encrypt(AES-256)	
Security Certificate	TPM 2.0 with FIPS 140-2 level2	

General

Memory	RAM	2GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 1slot
Edge Storage(OnCloud)	Micro SD/SDHC/SDXC	Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.

Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~95% RH(non-condensing)
	Others	Humidity control with AIR vent
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Input Voltage		PoE+(IEEE802.3at, Class4)
Power Consumption	PoE	Max. 20W, typical 15.5W

Mechanical

Color	White
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Mechanical

Material	Aluminum
RAL Code	RAL9003
Product Dimensions	215(W)x135(D)x93.2(H)mm(8.46x5.31x3.67")
Product Weight	1,330g(2.93lb)
Compatible Conduit Hole	12.7mm(1/2")(M20)
Compatible Gang Box	Single, Double, 4" Octagon, Square

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, 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
Environment	IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10, NEMA 250 type 4X

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	28.4m(93.22ft)
	Tele	72.2m(236.94ft)
Observe (63PPM/ 19PPF)	Wide	11.4m(37.29ft)
	Tele	28.9m(94.78ft)
Recognize (125PPM/ 38PPF)	Wide	5.7m(18.64ft)
	Tele	14.4m(47.39ft)
Identify (250PPM/ 76PPF)	Wide	2.8m(9.32ft)
	Tele	7.2m(23.69ft)

PNM-C7083RVD

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CAD

Unit: mm [inch]

215 [8.46]
135 [5.31]
93.2 [3.67]
2- ∅ 68 [2.68]

4	PNM-12082RVD	'22.03.17
3	PNM-7082RVD	'22.03.17
2	PNM-C12083RVD	'22.03.17
1	PNM-C7083RVD	'22.03.17
No.	MODEL NAME	DATE

Unit:mm[inch] SCALE:1/1 © Hanwha Techwin

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