



Network

PNM-C16013RVQ

4CH mini Al Camera









Key Features

- · 4CH AI based Analytics events: classified object (Person/Face/Vehicle/License plate)
- \cdot AI based loitering detection and line crossing detection
- · AI based WiseNR II , Auto prefer shutter control, WiseStream III
- · IR viewable length 20m (65.6 ft)
- · Supports hallway mode
- · 15fps@4MP
- · 3.19mm fixed lens
- · Next level cybersecurity (TPM 2.0, FIPS 140-2 certified)
- · Reinforced durability (IP66, NEMA4X, IK09)



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Specifications

Video				
Imaging Device	Size	1/2.8"		
	Туре	CMOS		
Resolution		2592x1520, 1920x1080, 640x360		
Max. Framerate	H.265/H.264	15fps/15fps(60Hz/50Hz)		
	MJPEG	15fps(@4MP Max. 5fps)		
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.05		
	BW(1/30sec, 30IRE)	0.005		
Video Out		USB: Micro USB Type B		
Lens				
Focal Length (mm)		3.19		
Max Aperture Ratio (F number)	Wide	1.2		
Angular Field of View	Horizontal	97°		
	Vertical	54°		
	Diagonal	116°		
Min. Object Distance		2m(6.56ft)		
Focus Control		Manual		
Lens Type		Fixed iris		
Mount Type		M12		
Pan / Tilt / Rotate				
Pan / Tilt / Rotate Range	Pan	0°~360°(100° per CH)		
	Tilt	0°~75°		
	Rotate	0°~90°		
Operational				
Day & Night		Auto(ICR)		
Backlight Compensation		BLC, WDR, SSDR		
Wide Dynamic Range (dB)		120		

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.



Operational		
Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	6ea
	Shape	Rectangular 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 Al 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, 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, MQTT: publication
Audio In		Support via optional I/O box
Audio Out		Support via optional I/O box
Light Type		IR LED
Light Viewable Length	IR	20m(65.62ft)
IR Wavelength		850nm
Analytics		
Classified Object Type		Person, Face, Vehicle, License plate
Attributes	Vehicle	Type(car, bus, truck, motorcycle, bicycle)
Thumbnail	<u>'</u>	DetectionShot
Analytics Events	Based on Al Engine	Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit)
	Normal	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



Network		
Streaming	Unicast	Up to 10 users
	Multicast	Support
	Multiple Streaming	Up to 4 profiles, * Each profiles support different resolutions that are not identical
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	S, T, M
	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, WSS(WebSocket Secure), 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	4GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 2slot(Total 1TB)
Environmental & E	lectrical	
Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~95% RH(non-condensing)
	Others	Start up should be done at above -35°C, Humidity control with AIR vent
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		PoE+(IEEE802.3at, Class4)
Power Consumption	PoE	Max. 23.5W, typical 13W
Mechanical		
Color		White
Material		Aluminum, Hard-coated dome

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Mechanical		
RAL Code		RAL9003
Product Dimensions		ø200x80mm(7.87x3.15")
Product Weight Compatible Conduit Hole		1,380g(3.04lb) Support conduit compatibility via optional adaptor
Certifications & Sta	ndards	
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 62262 IK09, NEMA 250 type 4X
DORI (EN62676-4 s	standard)	
Detect (25PPM/8PPF)	Wide	45.9m(150.47ft)
Observe (63PPM/ 19PPF)	Wide	18.3m(60.19ft)
Recognize (125PPM/ 38PPF)	Wide	9.2m(30.09ft)
Identify (250PPM/ 76PPF)	Wide	4.6m(15.05ft)



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CAD Unit: mm [inch]

