





# **QNF-C9010V**

12MP AI Fisheye Camera











- 1/1.6" 12MP CMOS
- 1.76mm fixed stereo graphic type lens
- Color: 0.02Lux(F1.8, 1/30sec), BW: 0.001Lux(F1.8, 1/30sec)
- Digital Rotation
- Resolution/Framerate
- Original view: Max. 20fps@3008x3008
- Double panorama: Max. 20fps@3584x1792
- Single panorama: Max. 20fps@3584x896
- Quad view: Max. 20fps@3584x2688
- Q1/Q2/Q3/Q4(4:3): Max. 20fps@1792x1344
- Day & Night (ICR), WDR (120dB), WiseNR II (Using AI engine)
- H.265, H.264, MJPEG, WiseStreamIII (Using AI engine)
- Analytics events based on AI engine
- Object detection (Person/Vehicle)
- Color Attribute, BestShot
- Motion detection, Virtual line (Crossing/Direction),

Virtual area (Loitering/Intrusion/Enter/Exit)

• IP66, IK10, NEMA4X

 $\mathbf{Q}$  series  $_{\text{QNF-C9010V}}$ 



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#### **Specifications**

Video		
Imaging Device	Size	1/1.6"
	Туре	CMOS
Resolution		512x384, 3584x2688, 3008x3008, 640x160, 1920x960, 1792x1344, 640x640, 1024x768 480x480, 800x800, 1920x480, 1280x320, 1920x1920, 1280x640, 3584x1792, 2048x1536, 640x320, 1024x512, 1504x1504, 768x576, 3584x896, 1280x1280, 2560x2560, 1024x256
Max. Framerate	H.265/H.264	20fps/20fps(60Hz/50Hz)
	MJPEG	5fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.02
	BW(1/30sec, 30IRE)	0.001
Video Out		USB: Micro USB Type B
Lens		
Focal Length (mm)		1.76
Max Aperture Ratio (F number)	Wide	F1.8
Angular Field of View	Horizontal	185°
	Vertical	185°
	Diagonal	185°
Min. Object Distance		0.5m(1.64ft)
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Others	Digital Rotation
Operational		
Day & Night		Auto(ICR)
Backlight Compensation		WDR, SSDR, BLC
Wide Dynamic Range (dB)		120
Digital Noise Reduction		SSNR V , WiseNR II (Based on Al engine)
Motion Detection		
Motion Detection	Quantity	8ea

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Operational		
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
Gain Control		Low, Middle, High
White Balance		Outdoor, Indoor, ATW, Manual, AWC
Electronic Shutter	Mode	Anti flicker, Minimum, Maximum
	Speed Range	1/5~1/12,000sec
Digital PTZ		Support
Video Rotation		Mirror, Flip
Alarm Triggers		Analytics, Network disconnect
Alarm Events When Alarm Trigger Occurred		Notification: e-mail, MQTT: publication, File upload(image): e-mail/FTP/SFTP, Recording: SD/SDHC/SDXC or NAS recording at event triggers, Handover: PTZ preset, send message by HTTP/HTTPS/TCP
Analytics		
Classified Object Type		Vehicle, Person
Attributes	Person	Upper/Lower clothes color
	Vehicle	Color
Thumbnail	·	BestShot
Analytics Events	Based on Al Engine	Motion detection, Virtual line(Crossing/Direction), Object detection, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear)
	Normal	Defocus detection, Tampering
Business Intelligence	Based on Al Engine	Heatmap, Queue management, People counting
Network		
Ethernet		RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/High, MJPEG
Smart Codec		Manual, WiseStream(Based on Al engine)
Bitrate Control		MJPEG: VBR, H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 5 profiles
Protocol		FTP, NTP, TCP/IP, ARP, DHCP, IPv4, HTTPS, RTP(UDP), RTCP, IPv6, UDP/IP, Bonjour, DNS SNMPv1/v2c/v3(MIB-2), RTP(TCP), SSL/TLS, QoS, SMTP, DDNS, IGMP, HTTP, SFTP, UPnl CDP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast)
Application Programming Interface	ONVIF	M, T, S, G
	Others	Hanwha Vision Open Platform, SUNAPI(HTTP API)
Direct Cloud Connection		Support
Security		
OS / Firmware Protect		Secure boot, Signed firmware, Encrypted firmware

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Security		
User authentication		Prevent brute-force attack, Digest authentication
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		SRTP, HTTPS, WSS(WebSocket Secure)
Access Control		IP-based access control
Data Protect		Encryption credentials
Audit		Access / System / Event Log management
Device ID		Device certificate(Hanwha Vision Root CA)
Secure Storage		SDcard partition encrypt(AES-256)
General		
Memory	RAM	2GB
	Flash	1GB
Edge Storage	Micro SD/SDHC/SDXC	Max. 256GB x 1slot
Environmental & El	ectrical	
Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~100% RH(condensing)
	Others	Start up should be done at above -30°C
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3)
Power Consumption	PoE	Max 6.7W, typical 4.8W
Mechanical		
Color		White
Material		Aluminum
RAL Code		RAL9003
Product Dimensions		ø120x72.3mm(ø4.7x2.85")
Product Weight		583g(1.28lb)
Certifications & Sta	ndards	
EMC		VCCI CISPR 32 Class A, ICES-3(A)/NMB-3(A), FCC 47 CFR 15 Subpart B Class A, RCM AS- NZS CISPR 32 Class A, CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, KS C 9832 Class A, KS C 9835
Safety		UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment		IEC 60529 IP66, IEC 62262 IK10, IEC/EN 63000
DORI (EN62676-4 s	tandard)	
Detect (25PPM/ 8PPF)	Wide	36.9m(121.03ft)
Observe (63PPM/ 19PPF)	Wide	14.8m(48.42ft)

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DORI (EN62676-4 standard)		
Recognize (125PPM/ 38PPF)	Wide	7.4m(24.21ft)
Identify (250PPM/ 76PPF)	Wide	3.7m(12.10ft)



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CAD Unit: mm [inch]

