





Key Features



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





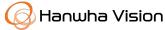
QNF-C9010V 12MP AI Fisheye Camera



Specifications

| Video | |
|---------------------------|---|
| Imaging Device | 1/1.6" 12MP CMOS |
| Resolution | Overview : 3008x3008, 2560x2560, 1920x1920, 1504x1504, 1280x1280, 800x800, 640x640, 480x480 Double panorama: 3584x1792, 1920x960, 1280x640, 1024x512, 640x320 Single panorama: 3584x896, 1920x480, 1280x320, 1024x256, 640x160 Quad view: 3584x2688, 2048x1536, 1792x1344, 1024x768, 768x576, 512x384 Q1/Q2/Q3/Q4(4:3): 1792x1344, 1024x768, 768x576, 512x384 |
| Max. Framerate | Original view: Max.20ps@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 MJPEG: Max.5fps |
| Min. Illumination | Color: 0.02Lux (F1.8, 1/30sec) BW: 0.001Lux (F1.8, 1/30sec) |
| Video Out | USB: Micro USB Type B, 1280x720 for installation |
| Lens | |
| Focal Length (Zoom Ratio) | 1.76mm fixed focal |
| Max. Aperture Ratio | F1.8 |
| Angular Field of View | H: 185° / V: 185° / D: 185° |
| Min. Object Distance | 0.5m(1.64ft) |
| Pan / Tilt / Rotate | |
| Pan / Tilt / Rotate Range | Digital Rotation |
| 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 Al engine) |
| Motion Detection | 8ea, 8point polygonal zones |
| Privacy Masking | 32ea, 4point quadrangle zones |
| Gain Control | Low / Middle / High |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor |
| LDC | Support |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (1/5~1/12,000sec) |
| Video Rotation | Flip, Mirror |

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| QNF-C9010V | |
|-----------------------------------|---|
| Analytics | Classified object type: Person/Vehicle Attributes: Person(Upper/lower clothes color), Vehicle(color) Support BestShot Analytics events based on AI engine - Motion detection*, Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit/Appear/Disappear) Analytics events - Defocus detection, Tampering * Some of the video analytics only works with people and vehicle detection |
| Business Intelligence | Based on Al engine: People counting, Queue management, Heatmap |
| Alarm Triggers | Analytics, Network disconnect |
| Alarm Events | When alarm trigger occurred - File upload(image) : e-mail/FTP/SFTP - Notification : e-mail - Recording : SD/SDHC/SDXC or NAS recording at event triggers - Handover(PTZ preset, Send message by HTTP/HTTPS/TCP) - MQTT: publication |
| | |
| Network | |
| Ethernet | RJ-45(10/100BASE-T) |
| Video Compression | H.265/H.264: Main/High, MJPEG |
| Smart Codec | Manual(5ea area), WiseStreamIII(Based on Al engine) |
| Bitrate Control | H.264/H.265: CBR or VBR MJPEG: VBR |
| Streaming | Unicast(20 users) / Multicast 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/SFTP, 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/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform - Cloud connector application included |
| Security | |
| OS / Firmware Protect | Secure boot, Signed firmware, Firmware encryption |
| User authentication | Digest Authentication, Prevent brute-force attack |
| Network authentication | 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2) |
| Secure Communication | HTTPS, SRTP, WSS(Websocket secure) |
| Access Control | Access control based on IP address |
| Data Protect | Authentication information encryption, ZIP compression encryption |
| Audit | User Access/System/Event log management |
| Device ID | Device Certificate(Hanwha Private Root CA) |
| Secure Storage | SDcard partition encrypt |
| Security Certificate | Secure by default |
| General | |
| Webpage Language | English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek |
| Edge Storage | Micro SD/SDHC/SDXC 1slot 256GB |
| Memory | 2GB RAM, 1GB Flash |
| | |

| Environmental & Electrical | | |
|----------------------------------|---|--|
| Operating Temperature / Humidity | -40°C~+55°C(-40°F~+131°F) / 0~100% RH(condensing) * Start up should be done at above -30°C | |

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| Storage Temperature / Humidity | -50°C~+60°C(-58°F~+140°F) / Less than 95% RH |
|--------------------------------|--|
| Certification | IP66, IK10, NEMA4X |
| Input Voltage | PoE(IEEE802.3af, Class3) |
| Power Consumption | PoE: Max 6.7W, typical 4.8W |
| | |
| Mechanical | |
| Color / Material | White / Aluminum |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ø120x72.3mm(ø4.7x2.85"), 583g(1.28lb) |
| 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 |
| 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 |
| Compatible Models | |
| Hanging Adaptor | SBP-120HMW |
| Back Box | SBV-140BW, SBV-140WW |
| Ceiling Mount (Assy) | SBP-150CMI, SBP-300CMI, SBP-300CMW1, SBP-900CMW, SBP-300CMTW, SBP-300CMTS |
| Ceiling Mount (Single Unit) | SBP-140CMB, SBP-140CMT, SBP-180CMB, SBP-180CMS, SBP-150CMP, SBP-300CMP, SBP-900CMP, SBP-C15P, SBP-C15H |
| Wall Mount | SBP-125WMW1, SBP-250WMW, SBP-300WMW, SBP-300WMW1, SBP-400WMW |
| Pole Mount | SBD-140PMB, SBD-140PMW, SBP-300PMW2 |
| Corner Mount | SBD-140KMB |
| Parapet Mount | SBP-156LMW1, SBP-300LMW |
| Tilt Mount | SBV-140TMW |
| Cabinet | SBP-150NBW |
| DORI (EN62676-4 standard) | |
| Detect (25PPM/ 8PPF) | 36.9m(121.03ft) |
| Observe (63PPM/ 19PPF) | 14.8m(48.42ft) |
| Recognize (125PPM/ 38PPF) | 7.4m(24.21ft) |
| Identify (250PPM/ 76PPF) | 3.7m(12.10ft) |
| | |





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CAD

Unit:mm [inch]

