



Network

Multi-sensor

PNM-C16083RQZ

4MP x 4CH Multi-directional Camera



Key Features

- AI engine-based analysis events:
Object detection (people/faces/vehicles/license plates),
virtual lines (passing/direction),
virtual areas (wandering/intrusion/entering/exiting)
- Attributes:
Vehicles (Type: car/bus/truck/motorcycle/bicycle, color),
people (clothing color)
- BestShot support
- AI based WiseNR II, Auto prefer shutter control, WiseStreamIII
- PTRZ control: Remotely set lens position/angle
- IR visibility: Up to 20m
- 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 |
| Max. Framerate | H.265/H.264: Max. 30fps MJPEG: Max. 30fps(@4MP Max. 5fps) |
| Min. Illumination | Color: 0.1Lux(F1.6, 1/30sec, 30IRE) BW: 0.01Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on) |

Lens

| | |
|---------------------------|---|
| Focal Length (Zoom Ratio) | 3.2~10.2mm(3.2x) motorized varifocal |
| Max. Aperture Ratio | F1.6(Wide)~F3.1(Tele) |
| Angular Field of View | H: 93°(Wide)~29°(Tele) V: 53°(Wide)~17°(Tele) D: 111°(Wide)~34°(Tele) |
| Min. Object Distance | 1.2m(3.93ft) |
| Focus Control | Simple focus |
| Lens Type | P-Iris |

Pan / Tilt / Rotate

| | |
|---------------------------|---|
| Pan / Tilt / Rotate Range | Remote adjustment(Max. 200cycles) 0°~360° / 30°~90° / 0°~90° |
|---------------------------|---|

Operational

| | |
|--------------------------|---|
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, WDR, SDR |
| Wide Dynamic Range | 120dB |
| Digital Noise Reduction | SSNR V, WiseNR II (Based on AI engine) |
| Defog | Support |
| Motion Detection | 8ea, 8point Polygonal zones |
| Privacy Masking | 6ea, 4point quadrangle zones - Color: Gray/Black/White |
| Gain Control | Low / Middle / High |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor |
| LDC | Support |
| Electronic Shutter Speed | Minimum / Maximum / prefer shutter / Anti flicker(1/5~1/12,000sec) Prefer shutter control based on AI engine |
| Video Rotation | Flip, Mirror, Hallway view(90°/270°) - each CH separately |

| | |
|-----------------------------------|---|
| Analytics | Classified object type: Person/Face/Vehicle/License plate Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color), Person (clothing color) 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, Virtual area (Appear/Disappear) * Audio detection, Sound classification(with NW I/O box SPM-4210) |
| Alarm I/O | 2 configurable I/O ports * Support Alarm via optional SPM-4210 I/O box |
| Alarm Triggers | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription, Tampering |
| 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 Audio via optional SPM-4210 I/O box |
| Audio Out | * Support Audio via optional SPM-4210 I/O box |
| Light Type | IR LED |
| IR Viewable Length | WiseIR: PoE++ 20m(65.62ft) / PoE+ 15m(49.21ft) |
| IR Wavelength | 850nm |
| Network | |
| Ethernet | Metal shielded RJ-45(10/100/1000BASE-T) |
| Video Compression | H.265/H.264: Main/High, MJPEG |
| Smart Codec | Manual(5ea area), WiseStreamIII |
| Video Quality Adjustment | H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control |
| Bitrate Control | H.264/H.265: CBR or VBR MJPEG: VBR |
| Streaming | Unicast(10 users) / Multicast Multiple streaming(Up to 3 profiles per CH) |
| 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 Profile S/T/G/M SUNAPI(HTTP API) Hanwha vision open platform |
| Security | |
| OS / Firmware Protect | Encrypted Firmware, Secure boot, Signed Firmware |
| User authentication | Digest Authenticon |
| Network authentication | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2) |
| Secure Communication | HTTPS, WSS(WebSocket Secure) |
| Access Control | IP-based access control |
| Data Protect | Encryption Credentials, Encrypt compress for live recording file |
| Audit | Access / System / Event Log management |
| Device ID | Device certificate(Hanwha Vision Root CA) |
| Secure Storage | TPM, SDcard partition encrypt |
| Security Certificate | TPM with FIPS 140-2 level 2 |
| General | |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian |
| Edge Storage | Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2) |

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.

| | |
|---------------------------------------|--|
| Memory | 8GB RAM, 8GB eMMC |
| Environmental & Electrical | |
| Operating Temperature / Humidity | -40°C~+55°C(-40°F~+131°F) / 0~100% RH(condensing) * Start up should be done at above -35°C Humidity control /w AIR vent |
| Storage Temperature / Humidity | -50°C~+60°C(-58°F~+140°F) / 0~90% RH |
| EPA(Effective Projected Area) | 0.035m ² |
| Certification | IP66, NEMA4X, IK10 |
| Input Voltage | Wisepower(PoE++(IEEE802.3bt type3, Class6) / PoE+(IEEE802.3at type2, Class4)) |
| Power Consumption | PoE++: Max 41.0W, Typical 22.0W PoE+: Max 25.5W, Typical 22.0W |
| Mechanical | |
| Color / Material | White / Aluminum + PC Bubble: Hard-coated dome |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ø312.7x145.9mm(ø12.31x5.74") / 4400g(9.7lb) |
| Compatible Conduit hole / Gangbox | 19.1mm(3/4")(M25) Single, double, 4" octagon, 4" square |
| 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 |
| Compatible Models | |
| Hanging Adaptor | SBP-315HMW, SBP-317HMWP |
| Ceiling Mount (Assy) | SBP-150CMI/300CMI, SBP-300CMW1/900CMW, SBP-300CMTW, SBP-300CMTS |
| Ceiling Mount (Single Unit) | SBP-180CMB/140CMB, SBP-180CMS, SBP-900CMP/300CMP/150CMP, SBP-C15P, SBP-C15H |
| Wall Mount | SBP-400WMW/250WMW, SBP-300WMW |
| Wall Mount Adaptor | SBP-300BW1, SBP-115PFA |
| Pole Mount | SBP-300PMW2 |
| Corner Mount | SBP-300KMW1, SBP-156KMW |
| Parapet Mount | SBP-300LMW, SBP-156LMW1 |
| Cabinet | SBP-300NBW, SBP-150NBW |
| Interface Box | SPM-4210 |
| Other Compatible Models | SBP-315C, SPO-8315 |
| DORI (EN62676-4 standard) | |
| Detect (25PPM/ 8PPF) | Wide: 49.2m(161.40ft) / Tele: 200.5m(657.65ft) |
| Observe (63PPM/ 19PPF) | Wide: 19.7m(64.56ft) / Tele: 80.2m(263.06ft) |
| Recognize (125PPM/ 38PPF) | Wide: 9.8m(32.28ft) / Tele: 40.1m(131.53ft) |
| Identify (250PPM/ 76PPF) | Wide: 4.9m(16.14ft) / Tele: 20.0m(65.76ft) |

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CAD

Unit:mm [inch]

