

Network

# PNM-C20000QB

5MP / 2MP x 4CH AI remote-head Camera

## Key Features

- 5MP or 2MP x 4CH Resolution x Ch
- 4 / 1 Audio Input / Output
- Shock Detection
- HDMI Local Monitoring
- 4 Audio Inputs & 1 Audio Output
- Unicast (20 users) / Multicast
- AI Based Analytics and Business Intelligence

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# PNM-C20000QB

5MP / 2MP x 4CH AI remote-head Camera





## Specifications

### Video

| | | |
|---|---|---|
| **Resolution** | | 2592x1944, 2560x1440, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| **Max. Framerate** | H.265/H.264 | 30fps/25fps(60Hz/50Hz) |
| | MJPEG | 30fps |
| **Video Out** | | USB: USB Type C. Preview and installation ONLY. Requires WiFi dongle., HDMI(Single/Quad view) |

### Lens

| | | |
|---|---|---|
| **Optional Lens** | | SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA, SLA-T2480WDA, SLA-T2480WA, SLA-T2480BA, SLA-T2880BA, SLA-T4680DA, SLA-T4680DSA, SLA-F1080FA, SLA-F2480A, SLA-F2480VA, SLA-F4780A, SLA-F4780VA, SLA-F2480WDA, SLA-F2480WA, SLA-F2480BA, SLA-F2480DA, SLA-F2480DSA, SLA-F2480HA, SLA-T4615VA, SLA-T2480HA |

### Operational

| | | |
|---|---|---|
| **Day & Night** | | Auto(Electrical) |
| **Backlight Compensation** | | BLC, WDR, SSDR |
| **Wide Dynamic Range (dB)** | | 120 |
| **Digital Noise Reduction** | | WiseNR II (Based on AI engine), SSNR V |
| **Digital Image Stabilization** | | Support |
| **Defog** | | Support |
| **Motion Detection** | Quantity | 8ea |
| | Shape | 8point Polygonal zones |
| **Privacy Masking** | Quantity | 16ea |
| | Shape | 4point Quadrangle zones |
| | Color / Option | Gray, Green, Red, Blue, Black, White |
| **Gain Control** | | Low, Middle, High |
| **White Balance** | | ATW, AWC, Manual, Indoor, Outdoor |
| **LDC** | | Support |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker |
| | Speed Range | 2~1/12,000sec |
| **Video Rotation** | | Flip, Mirror, Hallway view(90°/270°) - Each channel separately |

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## Operational

| | | |
|---|---|---|
| **Alarm Interface** | In/Out | 4 configurable I/O ports |
| **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,<br>Notification: e-mail,<br>Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| **Audio In** | | 4 x Selectable(mic in/line in) |
| **Audio Out** | | Line out |

## Analytics

| | | |
|---|---|---|
| **Classified Object Type** | | Person, Face, Vehicle, License plate |
| **Attributes** | Person | Upper/Lower clothes color |
| | Vehicle | Type(car, bus, truck, motorcycle, bicycle), Color |
| **Thumbnail** | | BestShot |
| **Analytics Events** | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear) |
| | Normal | Defocus detection, Motion detection, Tampering, Audio detection, Shock detection |
| **Business Intelligence** | Based on AI Engine | People counting, Queue management, Heatmap, Vehicle counting |

## Network

| | | |
|---|---|---|
| **Ethernet** | | Metal shielded RJ-45(10/100/1000BASE-T) |
| **Video Compression** | | H.265: Main,<br>H.264: Main/Baseline/High,MJPEG |
| **Audio Compression** | | G.711(PCM): 8kHz(64kbps),<br>G.726(ADPCM): 8kHz(16/24/32/40kbps),<br>AAC-LC: 16kHz(48kbps) |
| **Smart Codec** | | WiseStream(Based on AI engine) |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 20 users |
| | Multicast | Support |
| | Multiple Streaming | Up to 4 profiles |
| **Protocol** | | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT, SMTP(StartTLS) |
| **Application Programming Interface** | ONVIF | S, G, T, M |
| | Others | SUNAPI(HTTP API), Hanwha Vision Open Platform |

## 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) |

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## Security

| | |
|---|---|
| **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** | SDcard partition encrypt(AES-256), Secure element |
| **Security Certificate** | Secure element(FIPS 140-3 level3, CC EAL6+), Consumer IoT Security Standard (ETSI EN 303 645), Security Built-in Process Certification (IEC 62443-4-1) |

## General

| | | |
|---|---|---|
| **SoC** | Type | NT98690 |
| **Memory** | RAM | 8GB |
| | Flash | 8GB |
| **Edge Storage** | Micro SD/SDHC/SDXC | Max. 1TB x 2slot(Total 2TB) |

## Environmental & Electrical

| | | |
|---|---|---|
| **Operating Condition** | Temperature | -10°C~+45°C(+14°F~+113°F) |
| | Humidity | 0~95% RH(non-condensing) |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| **Input Voltage** | | PoE+(IEEE802.3at, Class4), 12VDC |
| **Power Consumption** | PoE | Max. 25.5W, typical 23.8W |
| | 12VDC | Max. 23.1W, typical 21.5W |

## Mechanical

| | | |
|---|---|---|
| **Color** | | Black |
| **Material** | | Plastic |
| **Material Management** | Declaration | RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018), REACH(Regulation (EC) No. 1907/2006), Conflict mineral policy(Section 1502 of US Dodd Frank Act) |
| **RAL Code** | | RAL9005 |
| **Product Dimensions** | | 200(W)x37(H)x146(D)mm(7.87x1.46x5.75") |
| **Product Weight** | | 1,015g(2.24lb) |

## 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, 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 62471 |
| **Environment** | IEC/EN 63000 |

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## Compatible lenses

the specifications for lenses



SLA-T1080FA



SLA-T2480A



SLA-T2480VA



SLA-T4680A



SLA-T4680VA



SLA-F2480A



SLA-F2480VA



SLA-F4780A



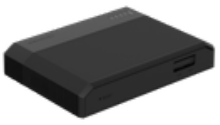
SLA-F4780VA

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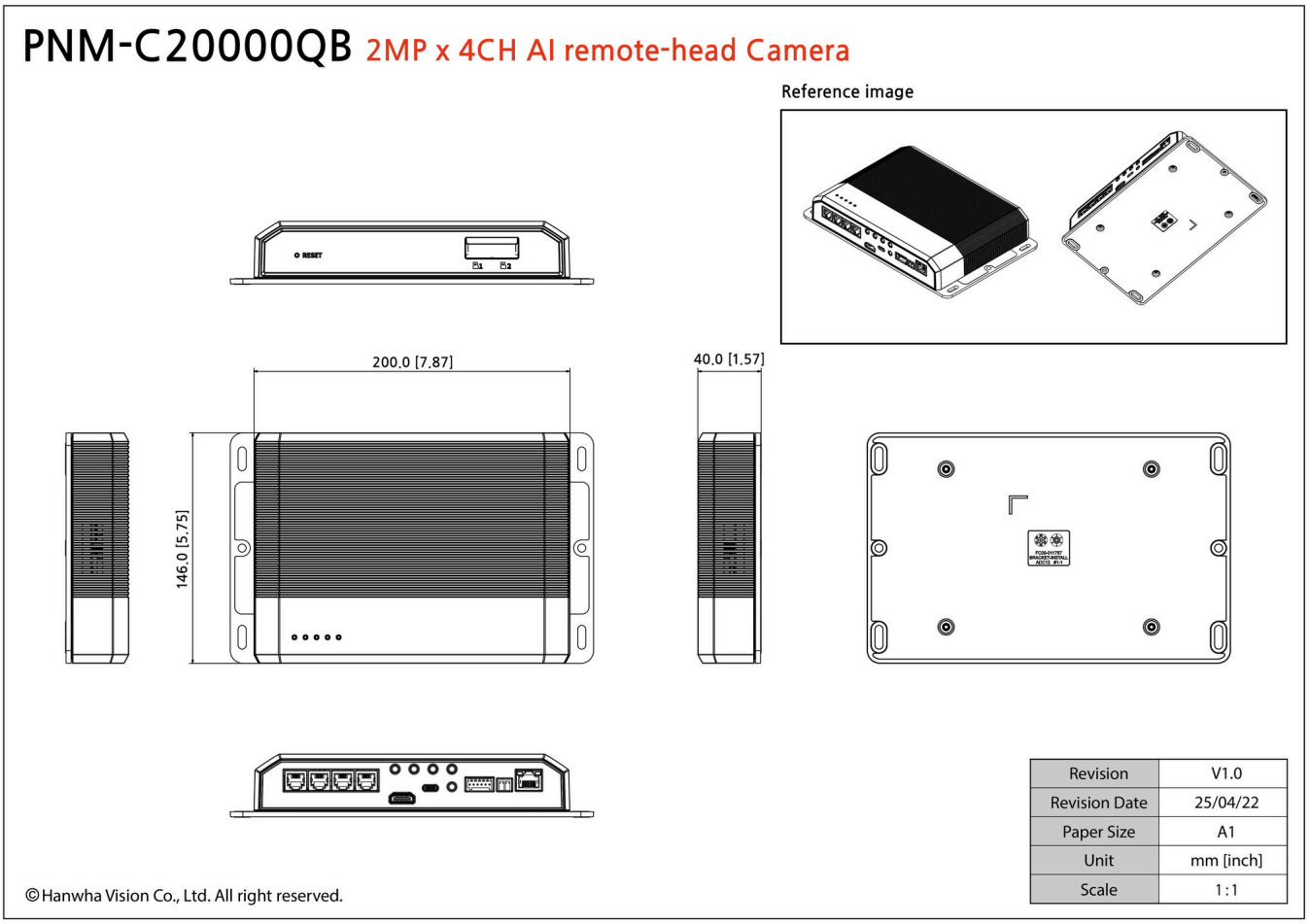
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## CAD

**Unit:** mm [inch]






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