

Network | Multi-sensor

PNM-C20000QB

2MP x 4CH AI remote-head Camera

Key Features

• Object detection (Person/Face/Vehicle/License plate),

IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion),

Shock detection

• Business intelligence based on AI engine :

People/Vehicle counting

• Support 4 audio input / 1 audio output

• Support HDMI connector

• Unicast(20 users) / Multicast

Multiple streaming(Up to 4 profiles per channel)

• WiseStream (Based on AI engine)

• Secure element(FIPS 140-3 level3, CC EAL6+)

Compatible Devices



SLA-T4680DA



SLA-T4680DSA

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2MP x 4CH AI remote-head Camera





Specifications

Video	
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60HZ/50Hz)
Video Out	USB: Micro USB Type C for installation HDMI(1920x1080, Single/Quad view)
Lens	
Optional Lens	SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA, SLA-T4680DA, SLA-T4680DSA, SLA-T2880BA
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(Electrical)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	16ea, 4point quadrangle zones - Color: gray/green/red/blue/black/white
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker(2~1/12,000sec) Prefer shutter control(Based on AI engine)
Video Rotation	Flip, mirror, hallway view(90°/270°) - Each channel separately
Analytics	Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle)/License plate Attributes: Person(Clothing top/bottom color), Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color) Support BestShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear) Analytics events - Motion detection, Defocus detection, Tampering, Shock detection, Audio detection
Business Intelligence	Based on AI engine: People/Vehicle counting
Alarm I/O	4 configurable I/O ports
Alarm Triggers	Analytics, Network disconnection, Alarm input, App event, Time schedule, MQTT subscription

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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 - Audio clip playback - MQTT: publication
Audio In	4 x Selectable(mic in/line in)
Audio Out	Line out

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

Security	
OS / Firmware Protect	Encrypted Firmware, Secure boot, Signed Firmware
User authentication	Digest Authentication
Network authentication	802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2),
Secure Communication	HTTPS, SRTP, WSS(Websocket secure)
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	Secure element, SDcard partition encrypt
Security Certificate	Secure element(FIPS 140-3 level3, CC EAL6+)

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 2slot 2TB(1TBx2)
Memory	8GB RAM, 8GB eMMC

Environmental & Electrical	
Operating Temperature / Humidity	-10°C~+45°C(14°F~+113°F) / 0~95% RH(Non-condensing)
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Input Voltage	PoE+(IEEE802.3at, Class4), 12VDC
Power Consumption	PoE+: Max. 25.5W, Typical 23.8W 12VDC: Max 23.1W, Typical 21.5W

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Mechanical	
Color / Material	Black / Plastic
RAL Code	RAL9005
Product Dimensions / Weight	200(W)x37(H)x146(D)mm(7.87x1.46x5.75"), 1015g(2.24lb)

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

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Compatible lenses



Video	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Imaging Device	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2M CMOS				
Resolution						None				
Effective Pixels										
Min. Illumination	Color: 0.03Lux(F1.6, 1/30sec)	Color: 0.045Lux(F2.0, 1/30sec)	Color: 0.045Lux(F2.0, 1/30sec)	Color: 0.06Lux(F2.5, 1/30sec)	Color: 0.06Lux(F2.5, 1/30sec)	Color: 0.045Lux(F2.0) BW: 0.045Lux(F2.0) * with PNM-9000QB, XNB-6002, PNM-C16000QB * without bandit barrier housing				
Max. Framerate						None				
NETD						None				
Pixel Size						None				
Video Out						None				
Video Transmission Distance						None				

Lens	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Focal Length (Zoom Ratio)	1.6mm fixed focal	2.4mm fixed focal	2.4mm fixed focal	4.6mm fixed focal	4.6mm fixed focal	2.8mm fixed				
Max. Aperture Ratio	F1.6	F2.0	F2.0	F2.5	F2.5	F2.0				
Angular Field of View	H: 187°, V: 113.9°	H: 138°, V: 73°, D: 165°	H: 138-, V: 73-, D: 165-	H: 73°, V: 39°, D: 85°	H: 73°, V: 39°, D: 85°	H: 108° / V: 63° / D: 122°				
Lens Type						None				
Mount Type	RJ12 connected with main unit	RJ12 connected with main unit	RJ12 connected with main unit	RJ12 connected with main unit	RJ12 connected with main unit	RJ12 connected with main unit				
Focus Control	fixed	fixed	fixed	fixed	fixed	Fixed				
Min. Object Distance						0.5m(1.64ft)				
Optional Lens						None				

Pan / Tilt / Rotate	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Pan / Tilt / Rotate Range						None				
Pan Range						None				
Pan Speed						None				
Tilt Range						None				
Tilt Speed						None				
Rotate Range						None				
Sequence						None				
Preset Accuracy						None				

Operational	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Camera Title						None				
Direction Indicator						None				
Day & Night						None				
Backlight Compensation						None				
Wide Dynamic Range						None				
Digital Noise Reduction						None				
Digital Image Stabilization						None				
Defog						None				
Motion Detection						None				
Privacy Masking						None				
Gain Control						None				
White Balance						None				
LDC						None				
Electronic Shutter Speed						None				
Digital PTZ						None				
Video Rotation						None				
Analytics						None				
Business Intelligence						None				
Serial Interface						None				
Alarm I/O						None				
Alarm Triggers						None				
Alarm Events						None				
Audio Streaming						None				
Audio In						None				
Audio Out						None				
IR Viewable Length						None				
IR Illuminator (Optional)						None				
IR Radiation angle						None				
IR LED						None				
IR Wavelength						None				
IR Operation						None				

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Water Removal	None
Auto Tracking	None
Coaxial Protocol	None
Color Palettes	None

Mechanical	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Color / Material			Black / Plastic, Metal			Housing: Black / Plastic, Aluminum Lens: Black / Plastic, Aluminum				
Product dimensions / weight	Ø35xL68.9mm, 430g	Ø24xL49.8mm, 318g		Ø24xL49.8mm, 310g	W30xH27.9xD45mm , 321g					
RAL Code						None				
Product Dimensions / Weight			W30xH27.9xD45mm, 328g			Bandit Barrier: 66.5x46x175~737mm(2.6"x1.8"x6.9~29.0"), Main Unit: 131.1x28x86mm (5.16"x1.10"x3.39"), Cable: 8m(26.2ft) Bandit Barrier: 250~1,000g(0.55~2.205 lb), Camera Body: 245g(0.54 lb)				
Compatible Conduit hole / Gangbox						None				
Hanging Mount (Dome)						None				
Skin Cover						None				
Skin Cover (Dome)						None				
Weather Cap (Dome)						None				
Power Module						None				
Backbox						None				

Radiometry	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Temperature Detect Range						None				
Temperature Accuracy						None				
Temperature Detection						None				
Additional						None				

Network	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Ethernet						None				
Video Compression						None				
Audio Compression						None				
Smart Codec						None				
Video Quality Adjustment						None				
Bitrate Control						None				
Streaming						None				
Protocol						None				
SIP support (VoIP, Peer-to-peer, SIP/PBX integration)						None				
Security						None				
Application Programming Interface						None				

General	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Webpage Language						None				
Web Viewer						None				
Edge Storage						None				
Memory						None				

Environmental & Electrical	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Operating Temperature / Humidity						-10°C~+55°C(+14°F~+131°F) / 0~90% RH				
Storage Temperature / Humidity						-50°C~+60°C(-58°F~+140°F) / 0~90% RH				
Certification						None				
Input Voltage						None				
Power Consumption						None				

Certifications & Standards	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Network						None				
EMC						None				
Safety						None				
Environment						None				
Video						None				

DORI (EN62676-4 standard)	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Detect (25PPM/ 8PPF)						None				
Observe (63PPM/ 19PPF)						None				
Recognize (125PPM/ 38PPF)						None				
Identify (250PPM/ 76PPF)						None				

Ver	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Ver						202412				

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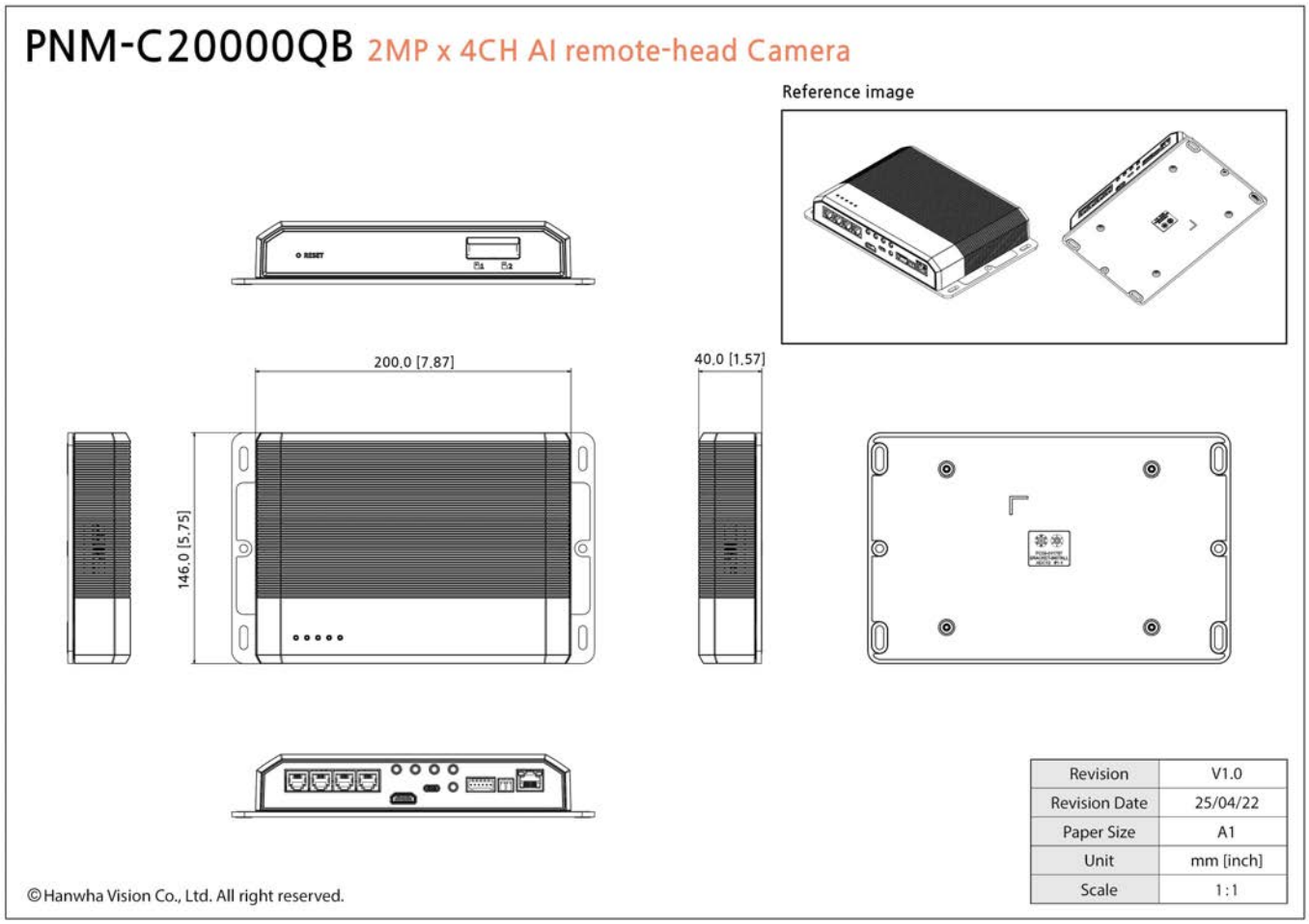
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CAD

Unit:mm [inch]



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