



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

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, 320x180
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
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
Alarm Interface	In/Out	4 configurable I/O ports

Operational

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, 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

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, Vehicle counting

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.265/H.264: CBR or VBR, 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, IGMP, 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)
Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP

Security

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

Compatible lenses



Video		SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
Imaging Device	Size	1/2.8"	1/2.8"	1/2.8"	1/2.8"	1/2.8"	1/2.8"	1/2.8"	1/2.8"	1/2.8"
	Type	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.03	0.045	0.045	0.06	0.06	0.08	0.08	0.09	0.09
	BW(1/30sec, 30IRE)	0.03	0.045	0.045	0.06	0.06	0.08	0.08	0.09	0.09

Lens

Focal Length (mm)		1.6	2.4	2.4	4.6	4.6	2.45	2.45	4.72	4.72
Max. Aperture Ratio (F number)	Wide	1.6	2.0	2.0	2.5	2.5	2.0	2.0	2.07	2.07
	Tele	1.6	2.0		2.5	2.5	2.0	2.0	2.07	2.07
Angular Field of View	Horizontal	187°	138°	138°	73°	73°	122°	122°	70°	70°
	Vertical	113.9°	73°	73°	39°	39°	90°	90°	50°	50°
	Diagonal		165°	165°	85°	85°	158°	158°	96°	96°
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	RJ12 connected with main unit	RJ12 connected with main unit	RJ12 connected with main unit
Focus Control		Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

Environmental & Electrical

Operating Condition	Temperature	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)		-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)	-10°C ~ +55°C (+14°F ~ +131°F)
	Humidity	Less than 90% RH	Less than 90% RH		Less than 90% RH	Less than 90% RH	0~95% RH	0~95% RH	0~95% RH	0~95% RH
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)	-50°C~+60°C(-58°F~+140°F)		-50°C~+60°C(-58°F~+140°F)	-50°C~+60°C(-58°F~+140°F)	-50°C~+60°C(-58°F~+140°F)	-50°C~+60°C(-58°F~+140°F)	-50°C~+60°C(-58°F~+140°F)	-50°C~+60°C(-58°F~+140°F)
	Humidity	Less than 90% RH	Less than 90% RH		Less than 90% RH	Less than 90% RH	Less than 90% RH	Less than 90% RH	Less than 90% RH	Less than 90% RH

Mechanical

Color	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black
Material	Metal	Plastic	Plastic, Metal	Plastic	Plastic, Metal	Plastic	Plastic, Metal	Plastic	Plastic, Metal	Plastic, Metal

Mechanical

Product Dimensions	Ø35xL6 8.9mm	Ø24xL4 9.8mm	W30xH2 7.9xD45 mm	Ø24xL4 9.8mm	W30xH2 7.9xD45 mm	ø24x46. 6mm(ø 0.94x1.8 3"), Cabl e: 8m(2 6.2ft)	30(W)x2 4.7(H)x4 5(D)mm (1.18x0. 97x1.7 7"), Cabl e: 8m(2 6.2ft)	ø24x44. 9mm(ø 0.94x1.7 7"), Cabl e: 8m(2 6.2ft)	30(W)x2 0.5(H)xD 45mm (1.18x0. 81x1.7 7"), Cabl e: 8m(2 6.2ft)
Product Weight	430g	318g	328g	310g	321g	35g(0.0 8lb), Ca ble: 350 g(0.77l b)	46.1g(0. 1lb), Ca ble: 350 g(0.77l b)	34.2g(0. 08lb), C able: 35 0g(0.77l b)	44.4g(0. 1lb), Cab le: 350g (0.77lb)
Supported Products	XNB-60 02, PNM -9000Q B, PNM- C20000 QB, XNB -A8004 B	XNB-60 02, PNM -9000Q B, PNM- C20000 QB, XNB -A8004 B	XNB-60 02, PNM -9000Q B, PNM- C20000 QB, XNB -A8004 B	XNB-60 02, PNM -9000Q B, PNM- C20000 QB, XNB -A8004 B	XNB-60 02, PNM -9000Q B, PNM- C20000 QB, XNB -A8004 B	PNM-C2 0000QB	PNM-C2 0000QB	PNM-C2 0000QB	

Certification & Standards

EMC						FCC 47 CFR 15 Subpart B Class A, ICES- 3(A)/NM B-3(A), C E/UKCA EN 5503 2 Class A, EN 50 130-4, E N 61000 -3-2, EN 61000-3 -3, VCCI CISPR 3 2 Class A, RCM A S/NZS C ISPR 32 Class A, KS C 98 32 Class A, KS C 9 835	FCC 47 CFR 15 Subpart B Class A, ICES- 3(A)/NM B-3(A), C E/UKCA EN 5503 2 Class A, EN 50 130-4, E N 61000 -3-2, EN 61000-3 -3, VCCI CISPR 3 2 Class A, RCM A S/NZS C ISPR 32 Class A, KS C 98 32 Class A, KS C 9 835	FCC 47 CFR 15 Subpart B Class A, ICES- 3(A)/NM B-3(A), C E/UKCA EN 5503 2 Class A, EN 50 130-4, E N 61000 -3-2, EN 61000-3 -3, VCCI CISPR 3 2 Class A, RCM A S/NZS C ISPR 32 Class A, KS C 98 32 Class A, KS C 9 835	FCC 47 CFR 15 Subpart B Class A, ICES- 3(A)/NM B-3(A), C E/UKCA EN 5503 2 Class A, EN 50 130-4, E N 61000 -3-2, EN 61000-3 -3, VCCI CISPR 3 2 Class A, RCM A S/NZS C ISPR 32 Class A, KS C 98 32 Class A, KS C 9 835
Safety						UL 6236 8-1, CA N/CSA C 22.2 NO. 62368-1	UL 6236 8-1, CA N/CSA C 22.2 NO. 62368-1	UL 6236 8-1, CA N/CSA C 22.2 NO. 62368-1	UL 6236 8-1, CA N/CSA C 22.2 NO. 62368-1

Certification & Standards

Environment						IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78	None, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78
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PNM-C20000QB

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

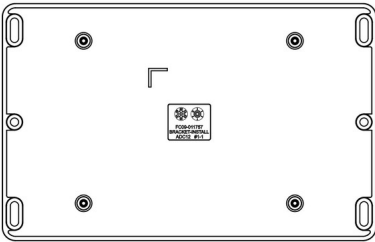
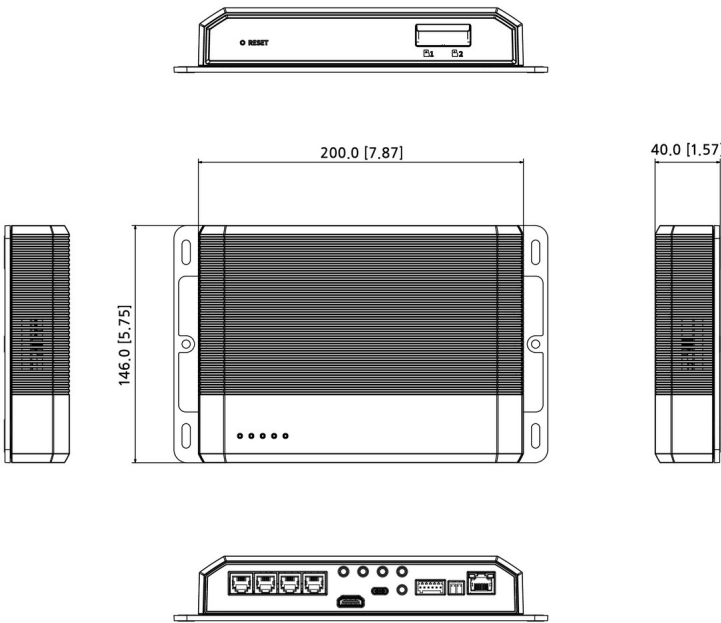
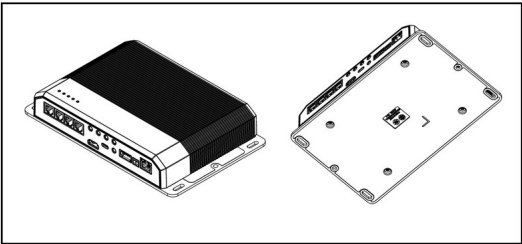


CAD

Unit: mm [inch]

PNM-C20000QB 2MP x 4CH AI remote-head Camera

Reference image



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Revision	V1.0
Revision Date	25/04/22
Paper Size	A1
Unit	mm [inch]
Scale	1:1

Compatible Devices



SLA-T4680DA



SLA-T4680DSA