



Network

# 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

## PNM-C20000QB

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)
Video Out	USB: USB Type C. Preview and installation ONLY. Requires WiFi dongle., HDMI(Single/Quad view)

#### Lens

Optional Lens	SLA-F1080FA, SLA-F2480A, SLA-F2480VA, SLA-F4780A, SLA-F4780VA, SLA-F2480WDA, SLA-F2480WA, SLA-F2480BA, SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA, SLA-T4680DA, SLA-T4680DSA, SLA-T2480WDA, SLA-T2480WA, SLA-T2880BA
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#### 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

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com)  
Hanwha Vision is formerly known as Hanwha Techwin.

## Operational

<b>Alarm Triggers</b>	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
<b>Alarm Events When Alarm Trigger Occurred</b>	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
<b>Audio In</b>	4 x Selectable(mic in/line in)
<b>Audio Out</b>	Line out

## Analytics

<b>Classified Object Type</b>	Person, Face, Vehicle, License plate	
<b>Attributes</b>	Person	Upper/Lower clothes color
	Vehicle	Type(car, bus, truck, motorcycle, bicycle), Color
<b>Thumbnail</b>	BestShot	
<b>Analytics Events</b>	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
<b>Business Intelligence</b>	Based on AI Engine	People counting, Vehicle counting

## Network

<b>Ethernet</b>	Metal shielded RJ-45(10/100/1000BASE-T)	
<b>Video Compression</b>	H.265/H.264: Main/Baseline/High, MJPEG	
<b>Audio Compression</b>	G.711(PCM): 8kHz(64kbps), G.726(ADPCM): 8kHz(16/24/32/40kbps), AAC-LC: 16kHz(48kbps)	
<b>Smart Codec</b>	WiseStream(Based on AI engine)	
<b>Bitrate Control</b>	H.265/H.264: CBR or VBR, MJPEG: VBR	
<b>Streaming</b>	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 4 profiles
<b>Protocol</b>	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)	
<b>Application Programming Interface</b>	ONVIF	S, G, T, M
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform

## Security

<b>OS / Firmware Protect</b>	Encrypted firmware, Secure boot, Signed firmware
<b>User authentication</b>	Digest authentication
<b>Network authentication</b>	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
<b>Secure Communication</b>	HTTPS, WSS(WebSocket Secure), SRTP

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## 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-T2480A	SLA-T2480VA	SLA-T4680A	SLA-F2480A	SLA-F2480VA	SLA-F4780A	SLA-F4780VA
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Imaging Device	Size
	Type
Min. Illumination (Lux)	Color(1/30sec, 30IRE)
	BW(1/30sec, 30IRE)

## Lens

Max. Aperture Ratio (F number)	Wide
	Tele
Angular Field of View	Horizontal
	Vertical
	Diagonal

## Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan
	Tilt
	Rotate

## Operational

### Environmental & Electrical

Operating Condition	Temperature
	Humidity
	Others
Storage Condition	Temperature
	Humidity

## Mechanical

## Certification & Standards