



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

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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	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Video Out		USB: Micro USB Type C, HDMI(Single/Quad view)

Lens

Optional Lens	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, SDDR
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
Alarm Triggers		Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription

Operational

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
Direct Cloud Connection	Optional (needs gateway)	

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
Access Control	IP-based access control
Data Protect	Encryption credentials, Encrypt compress for live recording file export
Audit	Access / System / Event Log management

Security

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+)

General

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
Imaging Device	Size	1/2.8"	1/2.8"	1/2.8"
	Type	CMOS	CMOS	CMOS
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.045	0.045	0.06
	BW(1/30sec, 30IRE)	0.045	0.045	0.06

Lens		SLA-T2480A	SLA-T2480VA	SLA-T4680A
Focal Length (mm)		2.4	2.4	4.6
Max. Aperture Ratio (F number)	Wide	2.0	2.0	2.5
Angular Field of View	Horizontal	138°	138°	73°
	Vertical	73°	73°	39°
	Diagonal	165°	165°	85°
Mount Type		RJ12 connected with main unit	RJ12 connected with main unit	RJ12 connected with main unit
Focus Control		Fixed	Fixed	Fixed

Mechanical		SLA-T2480A	SLA-T2480VA	SLA-T4680A
Color		Black	Black	Black
Material		Plastic	Metal, Plastic	Plastic
Product Dimensions		Ø24xL49.8mm	W30xH27.9xD45mm	Ø24xL49.8mm
Product Weight		318g	328g	310g