



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

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

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

Compatible lenses



Video	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
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	
Resolution						
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)	
Max. Framerate						
NETD						
Pixel Size						
Video Out						
Video Transmission Distance						
Lens	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Focal Length (Zoom Ratio)	1.6mm fixed focal	2.4mm fixed focal	2.4mm fixed focal	4.6mm fixed focal	4.6mm fixed focal	
Max. Aperture Ratio	F1.6	F2.0	F2.0	F2.5	F2.5	
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°	
Lens Type						
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	
Focus Control	fixed	fixed	fixed	fixed	fixed	
Min. Object Distance						
Optional Lens						
Pan / Tilt / Rotate	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Pan / Tilt / Rotate Range						
Pan Range						
Pan Speed						
Tilt Range						
Tilt Speed						
Rotate Range						
Sequence						
Preset Accuracy						
Operational	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Camera Title						
Direction Indicator						
Day & Night						
Backlight Compensation						
Wide Dynamic Range						
Digital Noise Reduction						
Digital Image Stabilization						
Defog						
Motion Detection						
Privacy Masking						
Gain Control						
White Balance						
LDC						
Electronic Shutter Speed						
Digital PTZ						
Video Rotation						
Analytics						
Business Intelligence						
Serial Interface						
Alarm I/O						
Alarm Triggers						
Alarm Events						
Audio Streaming						
Audio In						
Audio Out						

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Hanwha Vision is formerly known as Hanwha Techwin.

IR Viewable Length

IR Illuminator (Optional)

IR Radiation angle

IR LED

IR Wavelength

IR Operation

Water Removal

Auto Tracking

Coaxial Protocol

Color Palettes

Mechanical	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Color / Material			Black / Plastic, Metal			
Product dimensions / weight	Ø35xL68.9mm, 430g	Ø24xL49.8mm, 318g			Ø24xL49.8mm, 310g	W30xH27.9xD45m m, 321g
RAL Code						
Product Dimensions / Weight			W30xH27.9xD45m m, 328g			
Compatible Conduit hole / Gangbox						
Hanging Mount (Dome)						
Skin Cover						
Skin Cover (Dome)						
Weather Cap (Dome)						
Power Module						
Backbox						

Radiometry	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Temperature Detect Range						
Temperature Accuracy						
Temperature Detection						
Additional						

Network	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Ethernet						
Video Compression						
Audio Compression						
Smart Codec						
Video Quality Adjustment						
Bitrate Control						
Streaming						
Protocol						
SIP support (VoIP, Peer-to-peer, SIP/PBX integration)						
Security						
Application Programming Interface						

General	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Webpage Language						
Web Viewer						
Edge Storage						
Memory						

Environmental & Electrical	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Operating Temperature / Humidity						
Storage Temperature / Humidity						
Certification						
Input Voltage						
Power Consumption						

Certifications & Standards	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Network						
EMC						
Safety						
Environment						
Video						

DORI (EN62676-4 standard)	SLA-T1080FA	SLA-T2480A	SLA-T2480VA	SLA-T4680A	SLA-T4680VA	SLA-T2880BA
Detect (25PPM/ 8PPF)						
Observe (63PPM/ 19PPF)						
Recognize (125PPM/ 38PPF)						
Identify (250PPM/ 76PPF)						

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