



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



SLA-T2880BA

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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

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](https://www.hanwhavision.com).

Hanwha Vision is formerly known as Hanwha Techwin.

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
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
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
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
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					
IR Viewable Length					
IR Illuminator (Optional)					

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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
Color / Material	Black / Plastic, Metal				
Product dimensions / weight	Ø35xL68.9mm, 430g	Ø24xL49.8mm, 318g		Ø24xL49.8mm, 310g	W30xH27.9xD45mm, 321g
RAL Code					
Product Dimensions / Weight	W30xH27.9xD45mm, 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
Temperature Detect Range					
Temperature Accuracy					
Temperature Detection					
Additional					

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

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

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

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

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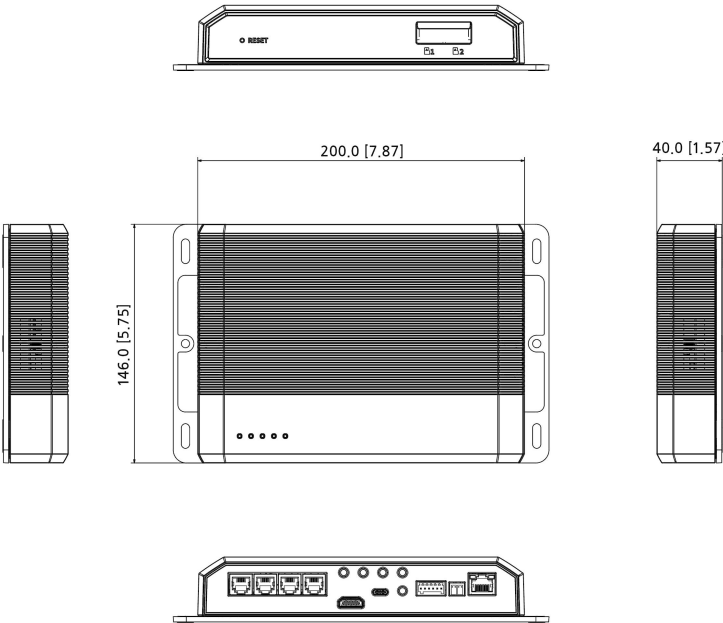
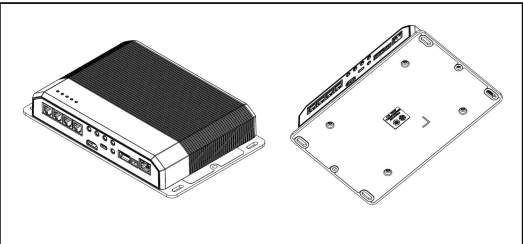


CAD

Unit:mm [inch]

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Reference image



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

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