



Network

Multi-sensor

PNM-9000QB

2MP x 4CH Remote Head Camera



Key Features

- 2MP x 4CH
- HDMI - Single/Quad view support
- WDR 120dB, WiseStreamII
- Defocus detection, directional detection, motion detection etc
- Max 30fps@2MP
- H.265, H.264, MJPEG

Compatible Devices



SBL-100D

PNM-9000QB

2MP x 4CH Remote Head Camera



Specifications

Video	
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps
Video Out	HDMI(1920x1080, Single/Quad view)
Lens	
Optional Lens	SLA-T1080FA, SLA-T2480A, SLA-T2480VA, SLA-T4680A, SLA-T4680VA
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(Electrical)
Backlight Compensation	BLC, HLC, WDR, SDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, 4point Quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic
Gain Control	Off / Max gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror
Analytics	Analytics events - Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line
Alarm I/O	Input 2ea / Output 2ea
Alarm Triggers	Analytics, Network disconnect, Alarm input
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
Audio In	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

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com.

Hanwha Vision is formerly known as Hanwha Techwin.

Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz
Smart Codec	Manual(5ea area), WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 12 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha private Root CA)
Application Programming Interface	ONVIF Profile S/T SUNAPI(HTTP API)

General

Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2)
Memory	4GB RAM, 512MB Flash

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 type2, Class4), 12VDC
Power Consumption	PoE: Max 22.00W, Typical 16.70W DC: Max 19.00W, Typical 14.00W

Mechanical

Color / Material	White / Plastic
RAL Code	RAL9003
Product Dimensions / Weight	200(W)x37(H)x146(D)mm(7.87x1.46x5.75"), 715g(1.58 lb)

Compatible lenses



Video	SLA-T4680VA	SLA-T2480A	SLA-T4680A	SLA-T2480VA	SLA-T1080FA
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: 0.06Lux(F2.5, 1/30sec)	Color: 0.045Lux(F2.0, 1/30sec)	Color: 0.06Lux(F2.5, 1/30sec)	Color: 0.045Lux(F2.0, 1/30sec)	Color: 0.03Lux(F1.6, 1/30sec)
Max. Framerate					
NETD					
Pixel Size					
Video Out					
Video Transmission Distance					
Lens	SLA-T4680VA	SLA-T2480A	SLA-T4680A	SLA-T2480VA	SLA-T1080FA
Focal Length (Zoom Ratio)	4.6mm fixed focal	2.4mm fixed focal	4.6mm fixed focal	2.4mm fixed focal	1.6mm fixed focal
Max. Aperture Ratio	F2.5	F2.0	F2.5	F2.0	F1.6
Angular Field of View	H: 73°, V: 39°, D: 85°	H: 138°, V: 73°, D: 165°	H: 73°, V: 39°, D: 85°	H: 138°, V: 73°, D: 165°	H: 187°, V: 113.9°
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-T4680VA	SLA-T2480A	SLA-T4680A	SLA-T2480VA	SLA-T1080FA
Pan / Tilt / Rotate Range					
Pan Range					
Pan Speed					
Tilt Range					
Tilt Speed					
Rotate Range					
Sequence					
Preset Accuracy					
Operational	SLA-T4680VA	SLA-T2480A	SLA-T4680A	SLA-T2480VA	SLA-T1080FA
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-T4680VA	SLA-T2480A	SLA-T4680A	SLA-T2480VA	SLA-T1080FA
Color / Material	Black / Plastic, Metal				
Product dimensions / weight	W30xH27.9xD45mm, 321g	Ø24xL49.8mm, 318g	Ø24xL49.8mm, 310g		Ø35xL68.9mm, 430g
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-T4680VA	SLA-T2480A	SLA-T4680A	SLA-T2480VA	SLA-T1080FA
Temperature Detect Range					
Temperature Accuracy					
Temperature Detection					
Additional					

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

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

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

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

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CAD

Unit:mm [inch]

