



Network

# 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

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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	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Video Out		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
Operational		
Day & Night		Auto(Electrical)
Backlight Compensation		BLC, HLC, WDR, SDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		SSNR V
Digital Image Stabilization		Support
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	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	Mode	Minimum, Maximum, Anti flicker
	Speed Range	2~1/12,000sec
Video Rotation		Flip, Mirror
Alarm Interface	In/Out	Input 2ea, Output 2ea
Alarm Triggers		Analytics, Network disconnect, Alarm input

## 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
Audio In	Selectable(mic in/line in)
Audio Out	Line out

## Analytics

Analytics Events	Normal	Defocus detection, Motion detection, Virtual area(Intrusion/Enter/Exit), Virtual line(Crossing, Direction)
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## Network

Ethernet	Metal shielded RJ-45(10/100/1000BASE-T)	
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG	
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, WiseStream II	
Bitrate Control	H.265/H.264: CBR or VBR, MJPEG: VBR	
Streaming	Unicast	Up to 20 users
	Multicast	Support
	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	
Application Programming Interface	ONVIF	S, T
	Others	SUNAPI(HTTP API)
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)	
Secure Communication	HTTPS	
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)	

## General

Memory	RAM	4GB
	Flash	512MB

## General

<b>Edge Storage</b>	Micro SD/SDHC/SDXC	Max. 512GB x 2slot(Total 1TB)
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## Environmental & Electrical

<b>Operating Condition</b>	Temperature	-10°C~+45°C(+14°F~+113°F)
	Humidity	0~95% RH(non-condensing)
<b>Storage Condition</b>	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
<b>Input Voltage</b>		PoE+(IEEE802.3at, Class4), 12VDC
<b>Power Consumption</b>	PoE	Max. 22W, typical 16.7W
	12VDC	Max. 19W, typical 14W

## Mechanical

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

## Compatible lenses



Video		SLA-T2480A	SLA-T4680A	SLA-T2480VA
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	0.06	0.045
	BW(1/30sec, 30IRE)	0.045	0.06	0.045

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

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

# PNM-9000QB

2MP x 4CH Remote Head Camera



## CAD

Unit: mm [inch]

This parts should not contain any substances which are specified in RoHS-0018

NO	PART NAME	CODE NO.	MATERIAL	QTY	REMARK
1	ASSEMBLY-PNM-9000QB	014025	Check note	1	-

1	PNM-9000QB	2020.08.26
No.	MODEL NAME	DATE
Unit:mm [inch]		SCALE:1/1