

# PIX-NBV808K

## 8MP IR Vari-focal Bullet Network Camera



Launched by Pixvideo, a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accPixvideo's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

### Series Overview

Pixvideo greatly saves on bandwidth and storage space through its Al Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and Al SSA (Al Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

### **Functions**

### SMD 4.0

Pixvideo Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

### AI SSA

Pixvideo AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Pixvideo smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

- 8-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8 MP (3840 × 2160) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 60 m.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Supports the AFSA (Anti-flicker Self-adaption) function, which automatically eliminates flicker.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 (optional) protection.
- SMD 4.0, AI SSA.













### **Perimeter Protection**

With deep learning algorithm, Pixvideo Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

## Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

### **Cyber Security**

Pixvideo network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.



## PIX-NBV808K

Camera						Video
Image Sensor		1/2.8" CMOS			Video	
Max. Resolution		3840 (H) × 2160 (V)				
ROM		128 MB			Stream	
RAM		1 GB				
Scanning System		Progressive			Resolu	
Electronic Sh		Auto/Manual	1/3 s-1/100,0	00 s		
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)			Bit Rat Video	
S/N Ratio		>56 dB			Day/N	
Illumination	Distance	60 m (196.85	ft)			BLC
Illuminator C	n/Off Control	Auto/Manual				HLC
Illuminator N	lumber	4 (IR LED)				WDR
Pan/Tilt/Rotation Range		Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°			Scene (SSA)	
Lens					White	
Lens Type		Motorized vari-focal			Gain C	
Lens Mount		ф14			Noise	
Focal Length		2.7 mm-13.5 mm			Motio	
Max. Apertu	re	F1.5			Image	
Field of View		Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 131° –35°			Region	
Iris Control		Fixed			Defog	
Close Focus I	Distance	0.8 m (2.62 ft)			AFSA	
	Lens	Detect	Observe	Recognize	Identify	Image
DORI	w	88.3 m (289.70 ft)	35.3 m (115.81 ft)	17.7 m (58.07 ft)	8.8 m (28.87 ft)	Mirro
Distance		289.7 m	115.7 m	57.9m	29.0 m	Privac
	Т	(950.46 ft)	(379.59 ft)	(189.96 ft)	(95.14 ft)	Audi
Intelligen	ce					Built-ii
IVS (Perimeter Protection)		Tripwire, intrusion (support the classification and accurate detection of vehicle and human)			Audio	
AI SSA		Yes			Alarr	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video						Alarm
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				
Smart Codec		Smart H.265+ Smart H.264+				
Al Coding		AI H.265				

Video Frame Rate	Main stream: 3840 × 2160 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity		
Stream Capability	3 streams		
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240); VGA (640 × 480)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Image Stabilization	Electronic Image Stabilization (EIS)		
Region of Interest (RoI)	Yes (4 areas)		
Defog	Yes		
AFSA	Yes		
Image Rotation	$0^{\rm o}/90^{\rm o}/180^{\rm o}/270^{\rm o}$ (support $90^{\rm o}/270^{\rm o}$ with $2688\times1520$ resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		
Alarm			
Alarm Event	-ZAS:  No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception -ZS:  No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus		
	detection; SMD; safety exception		



## PIX-NBV808K

Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host	20 (Total bandwidth: 64 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android

## Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B;
	UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

## Port

Audio Input	1 channel (RCA port) (Only- ZAS supports)
Audio Output	1 channel (RCA port) (Only- ZAS supports)
Alarm Input	1 channel in: 5 mA 3-5 VDC (Only- ZAS supports)
Alarm Output	1 channel out: 300 mA 12 VDC (Only-ZAS supports)
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## Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC); 10.5 W (PoE)

## Environment

**Product Dimensions** 

Net Weight

Gross Weight

Operating Temperature	$-30^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F})$ /Less than 95% RH
Storage Temperature	-40°C to +60°C (-40°F to 140°F)
Protection	IP67
Structure	
Casing	Metal

820 g (1.81 lb)

1090 g (2.40 lb)

 $244.1\,\text{mm}\times79.0\,\text{mm}\times75.9\,\text{mm}$ 

(9.61" × 3.11" × 3.00") (L × W × H)

### Accessories

### Optional:





PIX-ACM221 Junction Box

PIX-ACM262 Pole Mount

Ceiling Mount	Junction Mount	Pole Mount(Vertical)	

## Dimensions (mm[inch])



