



# PIX-NBM401SP

# 4x4MP WizMid Multi-Sensor Panoramic Bullet Network Camera





Launched by Pixvideo, Pixvideo WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

#### Series Overview

The splicing camera supports a 180° panoramic view and 4-channel hardware splicing to realize HD panoramic surveillance. The camera supports crowd situation analysis, vehicle situation analysis, and perimeter protection. It is widely applied in various scenes such as squares, airports, safe city, and traffic.

#### **Functions**

# Panoramic Splicing

With advanced splicing algorithm, Pixvideo Panoramic Splicing technology deletes overlapped area and splices multiple images to be a complete panorama. The field of view of the spliced image can be up to 360°, which largely improves surveillance efficiency and user experience. Generally, after splicing, the field of view of four-sensor camera can be 180°, and the field of view of eight-sensor camera can be 360°.

# 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

#### Vehicle Density

With deep learning algorithm, Pixvideo Vehicle Density technology analyses the vehicle situation in the image, such as vehicle number in selected area. You can set threshold, and when the number is larger or smaller than the threshold, it triggers linkage.

- 4x4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 16 MP (5520 × 2700)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Three streams for HD video display.
- Built-in IR LED, and the max. illumination distance is 30 m.
- 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G Micro SD card.
- 12 VDC/24 VAC/PoE power supply, easy for installation.
- IP67 and IK10 protection.















#### 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 compromising the device.

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#### **Crowd Density**

With deep learning algorithm, Pixvideo Crowd Density technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

#### **EPTZ**

With advanced target detection and tracking algorithms, Pixvideo EPTZ technology can simultaneously zoom in and track multiple humans and vehicles that trigger alarms. It provides rich details and a panoramic view at the same time.







Technical Specification	on			
Camera				
Image Sensor	1/1.8" CMOS			
Max. Resolution	5520 (H) × 2700 (V)			
ROM	8 GB			
RAM	4 GB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination	0.001 lux@F1.6 (Color, 30 IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio	>56 dB			
Illumination Distance	30 m (98.43 ft) (IR LED)			
Illuminator On/Off Control	Auto; Manual			
Illuminator Number	8 (IR LED)			
Pan/Tilt/Rotation Range	Tilt: 0°–90° Rotation: 0°–360°			
Lens				
Lens Type	Fixed-focal			
Lens Mount	M16			
Focal Length	2.8 mm			
Max. Aperture	F1.6			
Field of View	H: 180°; V: 100°			
Iris Control	Fixed			
Close Focus Distance	1.3 m (4.27 ft)			
	Detect	Observe	Recognize	Identify
DORI Distance	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.37 ft
Intelligence				
EPTZ	Yes			
IVS (Perimeter Protection)	Tripwire; Intro	usion		
Vehicle Density	Vehicle density; parking upper limit; vehicle congestion alarm			
Crowd Distribution Map	Crowd map, global people counting; people counting in area			
Video				
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+			
Video Frame Rate	Main Stream: 5520 × 2700@(1-25/30 fps) Sub Stream: 1280 × 620@(1-25/30 fps) Third Stream: 1920 × 940@(1-25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjecte to the total encoding capacity.			
Stream Capability	3 streams			
Resolution		4600 × 2252; 3		880 × 1408;

Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 96 kbps–16384 kbps H.265: 38 kbps–12544 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Region of Interest (RoI)	Yes (4 areas)
Defog	Yes
Privacy Masking	8 areas
Audio	
Audio Compression	G.711a; G.711Mu; G.726: G.723; PCM
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio detection; voltage detection; external alarm; security exception; crowd distribution map; tripwire; intrusion; traffic congestion; parking upper limit
Network	
Network Port	RJ-45 (10/100/1000 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
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User/Host	20
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	With plug-in: IE: IE 9 and later Chrome: Chrome 86 and later Firefox: Firefox 86 and later Without plug-in: Edge Chrome: Chrome 86 and later Firefox: Firefox 86 and later
Management Software	Smart PSS; DSS; DMSS
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification
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			
RS-485	1 (baud rate range:1200 bps–115200 bps)		
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Analog Output	1 channel (CVBS output:BNC)		
Alarm Input	2 channels in: 5 mA 3–5 VDC		
Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VAC		
Power			
Power Supply	12 VDC/24 VAC/PoE+ (802.3at)		
Power Consumption	Basic: 8.2 W (12 VDC); 9.7 W (24 VAC); 9.7 W (POE) Max. (WDR + IR intensity + intelligence on+ max. stream): 21.5 W (12 VDC); 24.2 W (24 VAC); 24.2 W (POE)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Operating Humidity	≤95%		
Protection	IP67; IK10		
Structure			
Casing Material	Metal + plastic		
Product Dimensions	298.3 mm × 172.5 mm × 120.5 mm (11.74" × 6.79" × 4.74") (L × W × H)		
Net Weight	3.05 kg (6.72 lb)		

3.79 kg (8.36 lb)

Gross Weight

### Accessories

# Optional:



PIX-ACM245
Junction Box



PIX-ACM246
Pole Mount
Bracket

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

# Dimensions (mm[inch])





