

PIX-NBV501SMEI

5MP WDR IR Bullet AI Network Camera





Pixvideo series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Pixvideo series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Pixvideo includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Pro AI series contains Face Capture, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

Face Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. Pixvideo cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, cameras can extract six facial attributes from each frame, including Age, Gender, Expression (Jolly/Surprise/Normal/Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard. Customers can acquire data of interest via face attributes statistics.

Perimeter Protection

Pixvideo's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count re- quirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 20fps@2592×1944
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10













client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Pixvideo face detection camera can extract six facial attributes and output the metadata for analysis.

ePoE technology

The ePoE technology of Pixvideo, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Pixvideo ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reli- ability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments. _



Technical Sp	ecification						Resolution	2592×1944/2688×1520/2304×1296/1080P(1920×1080)/1.3M(1280×960)/720P(1280×7 20)/D1(704×576/704×480)/VGA(640×480)/
Camera								CIF(352×288/352×240)
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS					Frame Rate	Main Stream: 2592×1944(1~20fps) Sub Stream: D1(1~20/30fps)
Effective Pixels		2592(H) x 1944(V)				Third Stream: 1080P(1~13fps)		
RAM/ROM		1GB/128MB					Bit Rate Control	CBR/VBR
Scanning System		Progressive					Bit Rate	H.264: 32~ 8192Kbps
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s						H.265: 19~ 8192Kbps
Minimum Illumination		0.01Lux/F1.5 (Color,1/3s,30IRE) 0.09Lux/F1.5 (Color,1/30s,30IRE) 0Lux/F1.5(IR on)					Day/Night BLC Mode	Auto(ICR) / Color / B/W BLC / HLC / WDR(120dB)
IR Distance		Distance up to 50m (164ft)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Contr	·ol	Auto/ Manual					Gain Control	Auto/Manual
IR LEDs		4					Noise Reduction	3D DNR
Lens		4					Motion Detetion	Off / On (4 Zone, Rectangle)
		Matarizad					Region of Interest	Off / On (4 Zone)
Lens Type Mount Type		Motorized Board-in					Electronic Image Stabilization (EIS)	Support
Focal Length		2.7mm~13.5	2.7mm~13.5mm				Smart IR	Support
Max. Aperture		F1.5					Defog	Support
Angle of View			H: 100°~28°, V:72°~21°(2592x1944) H: 104°~29°, V:55°~16°(2688x1520)				Digital Zoom	N/A
Optical Zoom		5x					Flip	0°/90°/180°/270°
Aperture Type		Auto					Mirror	Off / On
Close Focus Distance		0.8m(2.62ft)					Privacy Masking	Off / On (4 Area, Rectangle)
0.000 1 0000 2.0	Lens	Detect Observe Recognize Identify					Audio	
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)		Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
	Т	212m(696ft)	85m(279ft)	42m(138ft)	21m(69ft)		Network	
Pan/Tilt/Rota	Pan/Tilt/Rotation					Ethernet	RJ-45 (10/100Base-T)	
Pan/Tilt/Rotation	on Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°						HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP;
Artificial Intell	ligence		Tallie 300, files 30, flotations 300				Protocol	FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS; UPnP;NTP
Face Capture	Artificial Intelligence Face Capture		Support face image capture				Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
			Support 6 kinds of face attributes extraction: Age, Gender,Expression(Jolly/Surprise/Normal/Rage/Sad/				Streaming Method	Unicast / Multicast
Face Attributes	Face Attributes		nfused/Fright	ened), Glasse			Max. User Access	20 Users
Perimeter Protection		Mask, Moustache & Beard Tripwire, Intrusion(Human & Vehicle classification)					Edge Storage	NAS FTP Mirco SD card 256GB
People Counting		Line crossing people counting, Region people counting					Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
GeneralIntelligence					Management Software	Smart PSS, DSS, P2P		
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly					Smart Phone	iOS, Android
General Intelligence		Object Abandoned/Missing					Certifications	
Video							Certifications	CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)				FCC:47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1		
Streaming Capability		3 Streams					CAN/CSA C22.2 No.60950-1-07	

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Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:3W 9.9W(IR on) PoE:3.7W 10.9W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal,plastic
Dimensions	273.2mm×95.0mm×95.0mm (10.76"×3.74"×3.74")
Net Weight	1.11Kg (2.44lb)
Gross Weight	1.51Kg (3.33lb)

Ordering Information			
Туре	Part Number	Description	
Accessories (optional)	ACM262	Pole mount	

Accessories

Optional:



ACM262 Pole Mount

Dimensions (mm/inch)





