

# PIX-NDV501SMEI

5MP WDR IR Dome Al Network Camera



Pixvideo AI 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 AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Pixvideo AI 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 Al 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. 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 requirements 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
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40m
- · 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 reliability 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 Specification  Camera				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)/ CIF(352×288/352×240)		
Image Sensor		1/2.7" 5Meg	1/2.7" 5Megapixel progressive scan CMOS				Main Stream: 2592×1944(1~20fps)
Effective Pixels		2592(H) x 1944(V)				Frame Rate	Sub Stream: D1(1~20/30fps)
							Third Stream: 1080P(1~13fps)
RAM/ROM		1GB/128MB				Bit Rate Control	CBR/VBR
Scanning System		Progressive				Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 8192Kbps
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Day/Night	Auto(ICR) / Color / B/W
Minimum Illumination		0.01Lux/F1.5 ( Color,1/3s,30IRE) 0.09Lux/F1.5 ( Color,1/30s,30IRE) 0Lux/F1.5 (IR on)				BLC Mode	BLC / HLC / WDR(120dB)
IR Distance		Distance up to 40m (131ft)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
IR On/Off Control		Auto/ Manual				Gain Control	Auto/Manual
IR LEDs		3				Noise Reduction	3D DNR
Lens						Motion Detetion	Off / On (4 Zone, Rectangle)
Lens Type		Motorized				Region of Interest	Off / On (4 Zone)
Mount Type		Board-in				Electronic Image Stabilization (EIS)	Support
Focal Length		2.7mm~13.5mm				Smart IR	Support
Max. Aperture		F1.5				Defog	Support
Angle of View		H: 100°~28°,				Digital Zoom	N/A
Optical Zoom		5x	H: 104°~29°, V:55°~16°(2688×1520)			Flip	0°/90°/180°/270°
·						Mirror	Off / On
Aperture Type		Auto				Privacy Masking	Off / On (4 Area, Rectangle)
Close Focus Dista		0.8m(2.62ft)	0.8m(2.62ft)			Audio	
	Lens	Detect	Observe	Recognize	Identify	Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)	Network	
	Т	212m(696ft)	85m(279ft)	42m(138ft)	21m(69ft)	Ethernet	RJ-45 (10/100Base-T)
Pan/Tilt/Rotation	on					Ethernet	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP;
Pan/Tilt/Rotation	Range	Pan:0°~355°;	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°			Protocol	FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP;Qo: UPnP;NTP
Artificial Intellig	gence					Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P
Face Capture		Support face			tion. Ago	Streaming Method	Unicast / Multicast
Face Attributes		Gender,Expre Disgusted/Co	Support 6 kinds of face attributes extraction: Age, Gender,Expression(Jolly/Surprise/Normal/Rage/Sad/ Disgusted/Confused/Frightened), Glasses,Mouth			Max. User Access	20 Users
Perimeter Protection		Mask, Moust Tripwire, Intr		d n & Vehicle cla	ssification)	Edge Storage	NAS FTP Mirco SD card 256GB
People Counting		Line crossing counting	people coun	ting, Region po	eople	Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
General Intellig	ence					Management Software	Smart PSS, DSS, P2P
Motion detection, Video tampering , Scene changing,				Smart Phone	iOS, Android		
Event Trigger		Network disconnection , IP address conflict, Illegal Access, Storage anomaly			net, megai	Certifications	
General Intelligen	ice	Object Aband	doned/Missin	g			CE-LVD:EN60950-1
Video		H 265+/H 26	H.265+/H.265/H.264+/H.264/H.264B/H.264H/			Certifications	CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU FCC:47 CFR FCC Part 15, Subpart B
Compression		MJPEG(sub stream)			20411/	CC (IIICANO)	UL/CUL: UL60950-1
Streaming Capability		3 Streams					CAN/CSA C22.2 No.60950-1-07

# Interface

Video Interface	1 Port(For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC

## Electrical

Power Supply	DC12V(±30%), AC24V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:4.9W 12.4W(IRon) AC24V: 5.1W 11.9W(IRon) PoE:5.2W 11.6W(IRon)

# 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	Ф159mm×117.9mm (6.26"×4.64")
Net Weight	0.95kg (2.09lb)
Gross Weight	1.20kg (2.65lb)

Ordering Information					
Туре	Part Number	Description			
	ACM208	Junction Box			
	ACM230	Wall mount			
Accessories	ACM211	Ceiling mount			
(optional)	ACM262	Pole mount			
	ACM222	Mount adapter			
	ACM224	In-ceiling mount			

# Accessories

# Optional:









ACM230 Wall mount

ACM208 Juntion Box

ACM224 In-ceiling mount

ACM211 Celling Mount







ACM222 Mount adapter



