



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

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

Model: N5241E-ZE

- · 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · 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. face detection camera can extract six facial attributes and output the metadata for analysis.

ePoE technology

The ePoE technology , 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. 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.

Onvie

Technical S	pecification							1080P(1920×1080)/1.3M(1280×960)/720P(128	
Camera			Resolution		0×720)/D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)				
Image Sensor		1/2.8" 2Megapixel progressive scan STARVIS™ CMOS					Frame Rate	Main Stream: 1080P(1~25/30fps)	
Effective Pixels		1920(H) x 1080(V)						Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~6fps)	
RAM/ROM		512MB/128MB					Bit Rate Control	CBR/VBR	
Scanning System		Progressive					Bit Rate	H.264: 32~ 8192Kbps	
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Day/Night	H.265: 19~ 7424Kbps Auto(ICR) / Color / B/W	
		0.0028Lux/F1.5 (Color,1/3s,30IRE)					BLC Mode	BLC / HLC / WDR(120dB)	
Minimum Illumination		0.0217Lux/F1.5 (Color,1/30s,30IRE) 0Lux/F1.5 (IR on)					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
IR Distance		Distance up to 50m (164ft)					Gain Control	Auto/Manual	
IR On/Off Cont	rol	Auto/ Manual							
IR LEDs		4					Noise Reduction	3D DNR	
Lens							Motion Detetion	Off / On (4 Zone, Rectangle)	
Lens Type		Motorized					Region of Interest Electronic Image Stabilization	Off / On (4 Zone)	
Mount Type		Board-in	Board-in				(EIS)	Support	
Focal Length		2.7mm~13.5mm					Smart IR	Support	
Max. Aperture		F1.5					Defog	Support	
Angle of View		H: 109°~30°, V:57°~17°					Digital Zoom	N/A	
Optical Zoom		5x					Flip	0°/90°/180°/270°	
Aperture Type		Auto				Mirror	Off / On		
Close Focus Dis	stance	0.8m(2.62ft)					Privacy Masking	Off / On (4 Area, Rectangle)	
	Lens	Detect	Observe	Recognize	Identify		Audio		
DORI Distance	W	44m(144ft)	18m(59ft)	9m(30ft)	4m(13ft)		Compression	G.711a/ G.711Mu/ AAC/ G.726/G.723	
	Т	146m(479ft)	58m(190ft)	29m(95ft)	15m(49ft)		Network		
Pan/Tilt/Rot	ation						Ethernet	RJ-45 (10/100Base-T)	
Pan/Tilt/Rotat	ion Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°					Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS;	
Artificial Inte	elligence							UPnP;NTP	
Face Capture		Support face	Support face image capture				Interoperability	ONVIF(Profile S/Profile G), CGI,Milstone,Genetec,P2P	
		Support 6 kinds of face attributes extraction: Age,					Streaming Method	Unicast / Multicast	
Face Attributes		Disgusted/Co	nfused/Fright	irprise/Norma ened), Glasse			Max. User Access	20 Users	
		Mask, Moustache & Beard					Edge Storage	NAS FTP	
Perimeter Prote	ction	Tripwire, Intrusion(Human & Vehicle classification)						Mirco SD card 256GB IE(versions newer than IE8), Chrome,	
People Counting		Line crossing people counting, Region people counting					Web Viewer	Firefox, Safari(versions newer than Safari 12)	
General Intelligence							Management Software	Smart PSS, DSS, P2P	
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal					Smart Phone	iOS, Android	
		Access,Storage anomaly					Certifications		
General Intelligence		Object Abandoned/Missing				Certifications	CE-LVD:EN60950-1 CE-EMC:Electromagnetic Compatibility Directive		
Video		H.265+/H.265/H.264+/H.264/H.264B/H.264H/						2014/30/EU FCC:47 CFR FCC Part 15, Subpart B	
Compression		MJPEG(sub stream)					UL/CUL: UL60950-1		
Streaming Capability		3 Streams					CAN/CSA C22.2 No.60950-1-07		

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:2.5W 9.4W(IR on) PoE:3.2W 10.3W(IR on)

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / 10%RH $^{\sim}$ 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)

Accessories

Optional:



PFA152-E Pole Mount



LR1002 ePoE Over Coax Converter

Ceiling Mount	Wall Mount	Pole Mount
		PFA152-E

Dimensions (mm/inch)





