





System Overview

Pro AI series contains Face Detection, 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 Detection

Face Detection 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 accu-racy. 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 client reduces system requirements and resources resulting in greater surveillance system efficiency.

MODEL: NZ15

- · 1/2.7" 5Megapixel progressive scan CMOS
- · H.265 & H.264 triple-stream encoding
- · 20 fps@2592 × 1944, 50/60 fps@1080P(1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 7 mm-35 mm motorized lens
- · 2/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 120 m
- · Micro SD memory, IP67, IK10













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 reli- ability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for $\pm 30\%$ 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					Smart Codec	Yes	
Camera					Streaming Capability	3 Streams	
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS					2592 × 1944/2688 × 1520/2560 × 1440/2304 ×
Effective Pixels		2592 (H) × 1944 (V)				Resolution	1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720F (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
RAM/ROM		1 GB/128 MB				Frame Rate	Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Scanning System		Progressive					
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s					Sub Stream: D1 (1 fps–20/30 fps)
Minimum Illumination		0.003 Lux@F1.3					D1 (1 fps-50 fps)
IR Distance		Distance up to 120 m (394 ft)				Bit Rate Control	Third Stream: 1080P (1 fps–17 fps) CBR/VBR
IR On/Off Control		Auto/Manual					H.264: 32 Kbps–8192 Kbps
IR LEDs		4				Bit Rate	H.265: 19 Kbps-8192 Kbps
Lens						Day/Night	Auto (ICR)/Color/B/W
Lens Type		Motorized var	i-focal			BLC Mode	BLC/HLC/WDR (120 dB)
Mount Type		Board-in				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Focal Length		7 mm-35 mm				Gain Control	Auto/Manual
Max. Aperture		F1.3				Noise Reduction	3D DNR
·		H: 31°-9°, V: 23°-7° (2592 × 1944)				Motion Detection	Off/On (4 Zone, Rectangle)
Angle of View			H: 32°-9°, V: 18°-5° (2688 × 1520)			Region of Interest	Off/On (4 Zone)
Aperture Type Close Focus Distance			Auto (HALL) 0.4 m-2.0 m (1.31 ft-6.56 ft)			Electronic Image Stabilization (EIS)	Yes
	Lens	Detect	Observe	Recognize	Identify	Smart IR	Yes
DORI Distance	W	190m(623ft)	76m(249ft)	38m(125ft)	19m(62ft)	Defog	Yes
DON'T DISTANCE	т		248m(814ft)	, ,		Flip	0°/90°/180°/270°
Pan/Tilt/Rota		020III(200 III)	2 10111(02 111)	12 1111(10714)	oziii(zoore)	Mirror	Off/On
Pan/Tilt/Rotatio		Pan: 0°-360°:	Tilt: 0°–90°; Rot	ation: 0°–360°		Privacy Masking	Off/On (4 Area, Rectangle)
Artificial Intell		Tail: 0 300 ,	THE. 0 30 , NO.	ation. 0 300		Audio	
Face Detection	igerice	Support face in	Support face image capture			Compression	G.711a, G.711Mu, AAC, G.726, G.723
			upport 6 kinds of face attributes extraction: Age,			Network	
Face Attributes		Gender, Expression (Jolly, Surprise, Normal, Rage, Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard				Ethernet	RJ-45 (10/100 Base-T)
Perimeter Protection		Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering				Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMF
People Counting		Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas				Interoperability	ONVIF(Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
independent detection General Intelligence				Streaming Method	Unicast/Multicast		
Scheraintelli	Bellee	Motion detection, Video tampering , Scene changing,			changing	Max. User Access	20 Users
Event Trigger		Network disconnection , IP address conflict, Illegal Access,Storage anomaly				Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
General Intelligence		Object Abandoned/Missing				Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Heat Map		Yes				Management Software	Smart PSS, DSS, DMSS
Video						Smart Phone	iOS, Android
Compression			H.265,H.264,H.264B,H.264H, MJPEG (sub stream)			Certifications	

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Interface

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

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<10.9W

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

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

Accessories

Optional:



PFA152-E Pole Mount



LR1002 ePoE Over Coax Converter

Ceiling Mount	Wall Mount	Pole Mount
		PFA152-E

Dimensions (mm[inch])





