

PIX-NDF404SA

4MP IR Fixed focal Dome WizSense Network Camera



This camera is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, Pixvideo Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Pixvideo smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, 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.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@30 fps
- · H.265 codec, high compression rate, low bit rate
- · Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card
- 12V DC/POE power supply
- IP67, IK10 protection
- SMD Plus













Starlight

Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

WDR

With advanced Wide Dynamic Range (WDR) technology, Pixvideo network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Stream Capability

3 streams

Technical Specification							4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704	
Camera							Resolution	× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/3" 4Megapixel progressive CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		2688 (H) ×1520 (V)					Video Bit Rate	H.264: 3 Kbps-8192 Kbps H.265: 3 Kbps-8192 Kbps
ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W
RAM		512 MB					BLC	Yes
Scanning System		Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					WDR	120 dB
Min. Illumination		0.005 Lux@F1.6					White Balance	Auto/natural/street lamp/outdoor/manual/regional
S/N Ratio	S/N Ratio		> 56 dB					custom
Illumination Dist	Illumination Distance		50 m (164.0 ft)				Gain Control	Auto/Manual
Illuminator On/0	Illuminator On/Off Control		Auto/Manual				Noise Reduction	3D DNR
Illuminator Num	nber	3 (IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	n Range	Pan: 0°-355°	; Tilt: 0°–65°; F	Rotation: 0°–35	55°		Region of Interest(RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Mount Type		M12					Mirror	Yes
Focal Length		2.8 mm; 3.6 mm; 6 mm					Privacy Masking	4 areas
Max. Aperture		F1.6					Audio	
Field of View		3.6 mm: Hori	zontal:84°; ver	ertical: 55°; diag tical: 45°; diag	onal: 100°		Audio Compression	G.711a; G.711Mu; G726; AAC
		6 mm: Horizontal:52°; vertical: 28°; diagonal: 61°					Alarm	
Iris Type		Fixed					Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire;
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.3 ft) 6 mm: 3.2 m (10.5 ft)						
	Lens	Detect	Observe	Recognize	Identify			intrusion; SMD
DODI Distance	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.8 ft)	5.6 m (18.4 ft)		Network	
DORI Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.3 ft)		Network	RJ-45 (10/100 Base-T)
	6mm	120.0 m	48.0 m	24.0 m	12.0 m		SDK and API	Yes
Professional,	Intellige	(393.7 ft) (157.5 ft) (78.7 ft) (39.4 ft)					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;SNMP
Perimeter Protection		Tripwire; intr	usion (Recogni	tion of human a	and vehicle)		Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Scene Self-adaptation	Yes
		videos					User/Host	20 (Total bandwidth: 64 M)
Video							Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Cloud; NAS
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG(only supported by sub stream)					Browser	IE: IE8, IE9, IE11
Smart Codec		Smart H.265+/ Smart H.264+						Chrome Firefox
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps)				Management Software	Smart PSS, DSS, DMSS	
VIGCO I Idille Na		third stream (1280 × 720@1–25/30 fps)					Mobile Phone	IOS; Android

Certification

ADVANCED LINE | PIX-NDF404SA

CE-LVD: EN62368-1
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

Port

Audio Input	1-channel (RCA port)
Audio Output	1-channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	<7.3W

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than 95%	
Storage Conditions	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67; IK10	

Structure

Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	378 g (0.8 lb)
Gross Weight	523 g (1.2 lb)

Ordering Information				
Туре	Part Number	Description		
	ACM206	Junction Box		
	ACM257	Rain Shade		
	ACM253	Wall Mount		
	ACM262	Pole Mount		
Accessories (optional)				

Accessories

Optional:











ACM207 Rain Shade

ACM262 Pole Mount

Dimensions (mm[inch])





