

PIX-NDF808SKA

8MP IR Fixed-focal Dome Network Camera



Series Overview

With advanced deep learning algorithm, Pixvideo 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 4.0

Pixvideo Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an Al NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

AI SSA

Pixvideo AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

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.

- 8-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8 MP (3840 × 2160) @25/30 fps.
- H.265 codec allows high compression ratio and ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 30 m.
- ROI, SMART H.264 +/H.265+,AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digita watermarking, applicable to various monitoring scenes.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 protection.
- SMD 4.0, AI SSA.













Perimeter Protection

With deep learning algorithm, Pixvideo 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) are largely reduced.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Cyber Security

Pixvideo network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from comprising the device.

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Technical Specification							Main stream: 3840 × 2160 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @
Camera						Video Frame Rate	(1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjecte to the total encoding capacity
Image Sensor		1/2.8" CMOS					
Max. Resolution		3840 (H) × 2160 (V)				Stream Capability	3 streams
ROM		128 MB				,	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
RAM		1 GB				Resolution	
Scanning System		Progressive					
Electronic SI	hutter Speed	Auto/Manual 1/3 s-1/100,000 s				Bit Rate Control	CBR/VBR
Min. Illumination		0.007 lux@F1.4 (Color, 30I RE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)				Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
S/N Ratio		>56 dB				Day/Night	Auto (ICR)/Color/B/W
Illumination	Distance	30 m (98.42 ft)				BLC	Yes
Illuminator (On/Off Control	Auto/Manual				HLC	Yes
Illuminator I	Illuminator Number					WDR	120 dB
Pan/Tilt/Rot	ation Range	3 (IR LED) Pan: 0°-355°; Tilt: 0°-75°; Rotation: 0°-355°			5°	Scene Self-adaptation	
Lens						(SSA)	Yes
Lens Type		Fixed-focal				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount		M12				Gain Control	Auto
Focal Length		2.8 mm; 3.6 mm				Noise Reduction	3D NR
Max. Aperture		F1.4				Motion Detection	OFF/ON (4 areas, rectangular)
Field of Viev		2.8 mm: Horizontal:107°; vertical: 56°; diagonal: 127°				Region of Interest (RoI)	Yes (4 areas)
	v	3.6 mm: Horizontal:84°; vertical: 47°; diagonal: 97°				Defog	Yes
Iris Control		Fixed				AFSA	Yes
Close Focus Distance		2.8 mm: 1.5 m (4.9 ft) 3.6 mm: 2 m (6.6 ft)				Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688×1520 resolution and lower)
	Lens	Detect	Observe	Recognize	Identify	Mirror	Yes
DORI Distance	2.8 mm	87.7 m (287.73 ft)	35.1 m (115.16 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	Privacy Masking	4 areas
	3.6 mm	102.1 m (334.97 ft)	40.8 m (133.86 ft)	20.4 m (66.93 ft)	10.2 m (33.46 ft)	Audio	
Intelligen	ce	(334.5711) (135.0011) (00.3311) (33.4011)			(55.45 11)	Built-in MIC	Yes
-		Tripwire, intrusion (support the classification and				Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
IVS (Perimeter Protection)		accurate det	ection of vehicle	e and human)		Alarm	
AI SSA		Yes				7.113.111	- AS:
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; external alarm; SMD; safety exception
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					
Video						Alarm Event	-S: No SD card; SD card full; SD card error; service life
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception
Smart Codec		Smart H.265+ Smart H.264+					
Al Coding		AI H.265 AI H.264				Network	

Network Port

RJ-45 (10/100 Base-T)

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SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host	20 (Total bandwidth: 64 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE:IE11 Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC:47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
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Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 8.5 W (12 VDC); 9.7 W (PoE)

Environment

Operating Temperature	-40°C to +60°C (-40°F to 140°F) /Less than 95% RH
Storage Temperature	-40°C to +60°C (-40°F to 140°F)
Protection	IP67; IK10

Structure

Casing	Metal
Product Dimensions	89.1 mm × Φ111.7 mm (3.51" × Φ4.40")
Net Weight	516 g (1.14 lb)
Gross Weight	670 g (1.48 lb)

Accessories

Optional:







PIX-ACM251 Mount Adapter



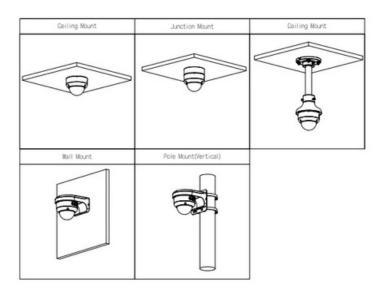
PIX-ACM244 Ceiling Mount Brack



PIX-ACM253 Wall Mount



Pole mount



Dimensions (mm[inch])

