

# PIX-NDF809SK

### 8MP IR Fixed-focal Eyeball 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. 8MP (3840 × 2160) @25/30 fps.
- H.265 codec, high compression rate, 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, 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, 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 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)
Image Sensor		1/2.8" CMOS					*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		3840 (H) × 2160 (V)				Street Carability	to the total encoding capacity
ROM		128 MB				Stream Capability	3 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
RAM		1 GB				Resolution	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); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA
Scanning System		Progressive					
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100,000 s				Bit Rate Control	(640 × 480) CBR/VBR
Min. Illumination		0.007 lux@F1.4 (Color, 30 IRE) 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 (98.43 ft)				BLC	Yes
Illuminator C	On/Off Control	Auto/Manual				HLC	Yes
Illuminator N	Illuminator Number					WDR	120 dB
Pan/Tilt/Rotation Range		Pan: 0°-360°; Tilt: 0°-78°; Rotation: 0°-360°				Scene Self-adaptation (SSA)	Yes
Lens 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 View		2.8 mm: Horizontal: 107°; vertical: 56°; diagonal: 127°				Region of Interest (RoI)	Yes (4 areas)
		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		Observe			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	
Intelligence						Built-in MIC	Yes
IVS (Perimet	IVS (Perimeter Protection)		usion (support		on and	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
AI SSA		Yes				Alarm	
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
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Alarm Event	detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; SMD; safety exception
Video						Network	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				Network Port	RJ-45 (10/100 Base-T)
Smart Codec		Smart H.265+ Smart H.264+				SDK and API	Yes
	AI Coding					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

## PIX-NDF809SK

Protection

Structure

Net Weight

Gross Weight

**Product Dimensions** 

Casing



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				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 4.3 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 7.6 W (12 VDC) 8.9 W (PoE)				
Environment					
Operating Temperature	$-40^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F})$ /Less than 95% RH				
Storage Temperature	$-40^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F})$				

IP67

Metal

500 g (1.10 lb)

770 g (1.70 lb)

93.6 mm × Φ106.0 mm (3.69" × Φ4.17")

#### Accessories

#### Optional:



PIX-ACM219

Junction Вох



PIX-ACM254

Mount



PIX-ACM243

Ceiling Mount



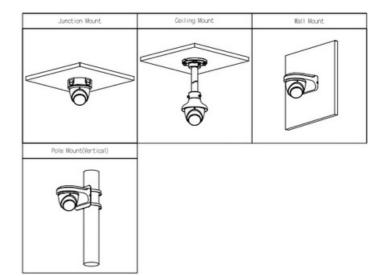
PIX-ACM244

Ceiling Mount



PIX-ACM262

Pole Mount



#### Dimensions (mm[inch])

