EZ-IPC-T1B83-SMD

8MP IR Fixed-focal Eyeball Network Camera



Launched by EZIP Technology, it 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 EZIP's advanced technologies, it provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, EZIP 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, EZIP 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, EZIP 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, EZIP 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.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 × 1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- · IP67 protection.
- · SMD Plus.













WDR

With advanced Wide Dynamic Range (WDR) technology, EZIP 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.

Cyber Security

EZIP 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 compromising the device.

Protection (IP67, Wide Voltage)

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

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification					
recinited Specification					3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);
Camera			Resolution	3072 ×1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×	
Image Sensor 1/2.7" CMOS	1/2.7" CMOS			Resolution	1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA
Max. Resolution 3840 (H) × 2160 (V)	3840 (H) × 2160 (V)			Dit Data Cautual	(640 × 480); CIF (352 × 288/352 × 240)
ROM 128 MB	128 MB			Bit Rate Control	CBR/VBR H.264: 32 kbps–8192 kbps
RAM 256 MB	256 MB			Video Bit Rate	H.265: 12 kbps–8192 kbps
Scanning System Progressive	Progressive			Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed Auto/Manual 1/3 s-1/100,00	Auto/Manual 1/3 s–1/100,000 s			BLC	Yes
0.009 lux@F2.0 (Color, 30 IRE Min. Illumination 0.0009 lux@F2.0 (B/W, 30 IRE				HLC	Yes
0 lux (Illuminator on)				WDR	120 dB
S/N Ratio >56 dB				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination Distance 30 m (98.43 ft) (IR)				Gain Control	Auto; Manual
Illuminator On/Off Control Auto; Manual				Noise Reduction	3D NR
Illuminator Number 1 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan: 0°–360° Pan/Tilt/Rotation Range Tilt: 0°–78°				Region of Interest (RoI)	Yes (4 areas)
Rotation: 0°–360° Lens			Smart Illumination	Yes	
Lens Type Fixed-focal			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)	
Lens Mount M12			Mirror	Yes	
Focal Length 2.8 mm	2.8 mm			Privacy Masking	4 areas
Max. Aperture F2.0			Audio		
Field of View 2.8 mm: H: 106°; V: 56°; D: 12	f View 2.8 mm: H: 106°; V: 56°; D: 125°			Built-in MIC	Yes
Iris Control Fixed				Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus Distance 2.8 mm: 1.3 m (4.27 ft)	e 2.8 mm: 1.3 m (4.27 ft)			Alarm	
Lens Detect Observe	Recognize	Identify			No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
Distance 2.8 mm 88.0 m 35.2 m (288.71 ft) (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)		Alarm Event	detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
Intelligence				Network	
Intrusion, tripwire (the two full IVS (Perimeter Protection) classification and accurate de				Network Port	RJ-45 (10/100 Base-T)
human)			SDK and API	Yes	
Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos			Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP, SMTP; FTP; STTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
Video			1.45	Multicast; ICMP; IGMP; NFS; PPPoE; Boujour	
Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	
Smart Codec Smart H.265+; Smart H.264+	dec Smart H.265+; Smart H.264+			User/Host	20 (Total bandwidth: 48 M)
$eq:main_stream: 3840 x 2160@(1-20 fps)/2688 x 1520@ (1-25/30 fps) $$ sub stream: 704 x 576@(1-25 fps)/704 x 480@(1-30 fps)$$ $$ The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.$			Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS IE Chrome Firefox	
			Management Software	Smart PSS; DSS; DMSS	
Stream Capability 2 streams				Mobile Client	iOS; Android

Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certification
Certification	

	CE-LVD: EN62368-1;	
Certifications	CE-EMC: Electromagnetic Compatibility Directive	
	2014/30/EU	

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.7 W (12 VDC); 3.4 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 4.5 W (12 VDC); 5.4 W (PoE)

Environment

Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

Structure

Casing Material	Inner core: Metal Cover: Metal
Product Dimensions	93.6 mm × Φ106.0 mm (3.69"× Φ4.17")
Net Weight	0.42 kg (0.93 lb)
Gross Weight	0.62 kg (1.37 lb)

Ordering Information				
Туре	Model	Description		
8MP Camera	EZ-IPC-T1B83-SMD	8MP IR Fixed-focal Eyeball Network Camera		
Accessories (Optional)	PFA130-E	Water-proof Junction Box		
	PFB204W	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
	PFA106	Mount Adapter		
	PFB220C	Ceiling Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:



PFA130-E Water-proof Junction Box

PFA106

Mount Adapter



PFB204W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



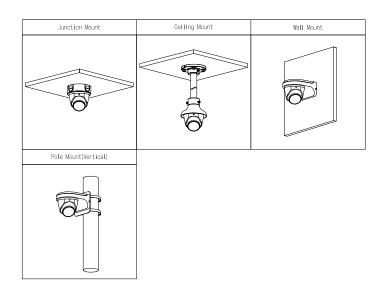
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

