EmPower AI Camera Series

• IP-4EB-MVF-PB















System Overview

With advanced deep learning algorithm, EmPower Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts starlight solution, which makes a beter image effect in low illuminance.

4MP Lite Al IR Vari-focal Eyeball Network Camera

Features

- 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: 40m
- 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
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card, Built-in Mic
- ◆ 12V DC/POE power support, IP67 protection, SMD

Functions

Smart (H 265+ & H 264+)

Adopting advanced algorithm of auto stream control according to the environment, EmPower smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

EmPower adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

EmPower 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.

Intelligent Video Analysis (IVS)

With advanced video algorithm, EmPower camera supports intelligent detection, such as tripwire and intrusion and so on.

Smart Motion Detection (SMD)

With intelligent algorithm, EmPower Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

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 works normal afer soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



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Technical Specification						
Camera						
Image Sensor		1/3" 4Megapixel progressive CMOS				
Effective Pixels		2688 (H) ×1520 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				
Min. Illumination		0.005 Lux@F1.5				
IR Distance		40 m (131.2 ft)				
IR On/Off Control		Auto/Manual				
IR LEDs Number		2 (IR LEDs)				
Pan/Tilt/Rotation Range		Horizontal: 0°–360°; vertical: 0°–78°; rotation: 0°–360°				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		ф14				
Focal Length		2.7 mm-13.5 mm				
Max. Aperture	Max. Aperture		F1.5			
Field of View		Horizontal: 104°–27° Vertical: 55° –15° Diagonal: 124° –31°				
Iris Type		Fixed aperture				
Close Focus Distance		0.8 m (2.6 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	64.0 m (210.0 ft)	25.6 m (84.0 ft)	12.8 m (42.0 ft)	6.4 m (21.0 ft)	
	Т	222.0 m (728.3 ft)	88.8 m (291.3 ft)	44.4 m (145.7 ft)	22.2 m (72.8 ft)	
Professional,	Intellige	ent				
Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)				
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video						
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG				
Smart Codec		Yes				
Video Frame Rate		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25 fps/704 × 480@1–30 fps) third stream (1280 × 720@1–25/30 fps)				
Stream Capability		3 streams				
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				
Bit Rate Control		CBR/VBR				
Video Bit Rate		H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps				

BLC Yes HLC Yes WDR 120 dB White Balance Auto/natural/street lamp/outdoor/manual/regional custom Gain Control Auto/Manual Noise Reduction 3D DNR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest(Rol) Yes (4 areas) Smart IR Yes Image Rotation O'990'/1807/270" (Support 90"/270" with 1920 × 1080 resolution.) Mirror Yes Privacy Masking 4 areas Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; G726; AAC Network Network RJ-45 (10/100 Base-T) Protocol IP44;PV6;HTTP;HTTPS;TCP;DLCP;DNS;DDNS;QoS;UPPP;MTF;Multicast;ICMP;IGMP;NFS;PPPOE;802,1x;SNMP Interoperability ONViF(Profile S/Profile G);CG;P2P;Milestone;Genetec Scene Self-adaptation Yes User/Host 20 (Total bandwidth: 64 M) Edge Storage FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS EliziB, IE9 IE11 Chrome Field Management Software Unisight VMS Mobile Phone IOS; Android Certification Certification CE-LVD: EN60950-1 CE-LPAC: Electromagnetic Compatibility Directive 2014/30/EU CC-47 CFR FCC Part 15, Subpart B Ul/CUL: Ul09950-1 CAN/CSA C22; No.60950-1-07 Power Power Supply 12V DC/PoE (802.3af) Power Consumption 48.3W Environment Operating Conditions -30°C to +60°C (-40°F to +140°F)/less thans95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)/less thans95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)/less thans95%	Day/Night	Auto(ICR)/Color/B/W		
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Edge Storage FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS Browser LE: IE8, IE9, IE11 Chrome Firefo Management Software Unisight VMS Mobile Phone IOS; Android Certification 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 Power Power Supply 12V DC/PoE (802.3af) Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Scene Self-adaptation	Yes		
Cloud; NAS IE: IE8, IE9, IE11 Chrome Firefo	User/Host	20 (Total bandwidth: 64 M)		
Browser Chrome Firefo Management Software Unisight VMS Mobile Phone IOS; Android Certification 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 Power Power Supply 12V DC/PoE (802.3af) Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Edge Storage			
Mobile Phone IOS; Android Certification 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 Power Power Supply 12V DC/PoE (802.3af) Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Browser	Chrome		
Certification 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 Power Power Supply 12V DC/PoE (802.3af) Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Management Software	Unisight VMS		
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 Power Power Supply 12V DC/PoE (802.3af) Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Mobile Phone	IOS; Android		
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 Power Power Supply 12V DC/PoE (802.3af) Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Certification			
Power Supply 12V DC/PoE (802.3af) Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B		
Power Consumption <8.3W Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Power			
Environment Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Power Supply	12V DC/PoE (802.3af)		
Operating Conditions -30°C to +60°C (-22°F to +140°F)/less than≤95% Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Power Consumption	<8.3W		
Strorage Conditions -40°C to +60°C (-40°F to +140°F)	Environment			
	Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%		
Ingress Protection IP67	Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
	Ingress Protection	IP67		

EmPower AI Camera Series

IP-4EB-MVF-PB

Structure	
Casing	Metal
Dimensions	104.8 mm × Φ122 mm (4.13" × Φ4.8")
Net Weight	685g (1.5 lb)
Gross Weight	828 g (1.8 lb)



Junction Mount







Accessories (Optional)



PFA130-EJunction Box



PFB203W Wall Mount



PFA106Mount Adapter



PFB220CCeiling Mount



PFA152-EPole Mount



PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated Mount Tester



PFM114 TLC SD card

Dimensions(mm/inch)



