

IPC-HFW5241E-ZE

2MP Vari-focal Bullet Network Camera





Shogun network camera with starlight solution and deep learning algorithm, has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, com -plying with the standards of IP67 and IK10 (Supported by some select models).

Key Feature

- \cdot 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition
- · Outputs max. 2 MP (1920 × 1080)@30 fps.
- · Built-in IR LED, and the max. illumination distance is 60 m.
- · ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Three switchable intelligent resources: IVS, face detection, and people
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD
- · 24 VAC/12 VDC/PoE power supply, easy for installation.
- · IP67 and IK10 protection.

Face Detection

Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

Perimeter Protection

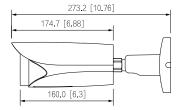
With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detec- tion based on target type (such as tripwire, intrusion, fast moving, park- ing detection, loitering detection and gathering detection) are largely reduced.

People Counting

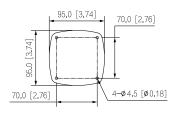
With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

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 out-door environment with instable voltage.















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Technical Specification						
Camera						
Image Sensor		1/2.8" CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				
Min. Illumination		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		60 m (196.85 ft) (IR)				
Illuminator On/Off Control		Auto				
Illuminator Number		4 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type	Lens Type		Motorized vari-focal			
Lens Mount		ф14				
Focal Length		2.7 mm-13.5 mm				
Max. Apertui	Max. Aperture		F1.5			
Field of View		Horizontal: 109°–30° Vertical: 57°–17° Diagonal: 131°–35°				
Iris Control	Iris Control		Auto			
Close Focus Distance		0.8 m (2.62 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	
	Т	146.2 m (479.66 ft)	58.4 m (191.60 ft)	29.2 m (85.80 ft)	14.6 m (47.90 ft)	
Smart Event						
IVS		Abandoned object; missing object				
Heat Map		Yes				

Professional, intelligent

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IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		
SMD 3.0	Less false alarm, longer detection distance		
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting		
People Counting	Tripwire people counting and people counting in area, generating and exporting report (day/month/year); queue management, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management		
Smart 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 (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
Al Coding	AI H.265; AI H.264		
Video Frame Rate	Main stream: $1920 \times 1080@(1 \text{ fps}-25/30 \text{ fps})$ Sub stream: $D1@(1 \text{ fps}-25/30 \text{ fps})$ Third stream: $1080p@(1 \text{ fps}-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Stream Capability	3 streams		
Resolution	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: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps		
Day/Night	Auto (ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto; manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		



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Region of Interest (RoI)	Yes (4 areas)			
Image Stabilization	Electronic Image Stabilization (EIS)			
Smart Illumination	Yes			
Defog	Yes			
Image Rotation	0°/90°/180°/270°			
Mirror	Yes			
Privacy Masking	8 areas			
Audio				
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723			
Alarm				
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; scene changing; tripwire; intrusion; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input error; intensity change; people counting; face detection; voltage detection; people counting in area; stay detection; people number error detection; queue management			
Network				
Network Port	RJ-45 (10/100 Enhancement Base-T)			
SDK and API	Yes			
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			
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; Bonjour			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone			
User/Host	20 (Total bandwidth: 88 M)			
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS			
Browser	IE: IE8 and later Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Client	iOS; Android			
Certification				
Certifications	CE-LVD: EN 62368-1 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	2 channels in: 5 mA 3 V–5 VDC		
	Alarm Output	1 channel out: 300 mA 12 VDC		
	Power			
	Power Supply	12 VDC (±30%); PoE (802.3af); ePoE		
	Power Consumption	Basic: 2.5 W (12 VDC); 3.2 W (PoE) Max. (max. stream + IR LED + focus): 9.4 W (12 VDC); 10.3 W (PoE)		
	Environment			
	Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)		
	Operating Humidity	≤ 95%		
	Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
	Protection	IP67; IK10		
	Structure			
	Casing	Metal + plastic		
	Product Dimensions	273.2 mm \times 95 mm \times 95 mm (10.76" \times 3.74" \times 3.74") (L \times W \times H)		
	Net Weight	1110 g (2.45 lb)		
	Gross Weight	1510 g (3.33 lb)		