IPC-HFW5242E-ZE-MF

2MP Vari-focal Bullet Network Camera





Overview

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

- · 1/1.8" 2Megapixel progressive scan CMOS
- \cdot ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- \cdot 2.7 mm–12.0 mm motorized lens
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- \cdot Max. IR LEDs Length 50 m
- \cdot Micro SD memory, IP67, IK10

Function

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 atributes, 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

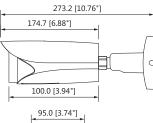
With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

Protection (IP67, IK10, wide voltage)

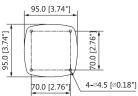
IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

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 \pm 30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to out-door environment with instable voltage.

Diamensions









SHOGUN Technology Solution

IPC-HFW5242E-ZE-MF

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Technical Specification

Image Sensor		1/1.8" 2Megapixel progressive scan CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
RAM/ROM		1 GB/128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s			
S/N Ratio		> 56 dB			
Minimum Illumination		Color : 0.003Lux@F1.8 Black&White : 0.0002Lux@F1.8 , 0Lux@F1.8 (IR on)			
Illumination Distance		Distance up to 50 m (164 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		4(IR LED)			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Board-in			
Focal Length		2.7 mm-12.0 mm			
Max. Aperture		F1.8			
Angle of View		H: 114°-47°, V: 62°-26°			
Aperture Type		Auto			
Close Focus Distance		1.2 m (3.94 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	41.0m (134.5ft)	16.4m (53.8ft)	8.2m (26.9ft)	4.1m (13.5ft)
	т	93.4m (306.4ft)	37.3m (122.4ft)	18.6m (61.0ft)	9.3m (30.5ft)
Pan/Tilt/Rotation					

Pan/Tilt/Rotation Range

Artificial Intelligence

Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting; face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
Perimeter Protection	Tripwire; intrusion; abnormal motion [fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection]

Pan: 0°-360°; Tilt: 0°-90°; Rotation: 0°-360°

People Counting	Support the counting of enter number, leave number, and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm			
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly			
General Intelligence	Object Abandoned/Missing			
Heat Map	Yes			
Video				
Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)			
Smart Codec	Smart H.265+/ Smart H.264+			
Streaming 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)			
	Main Stream: 1920 × 1080 (1 fps-50/60 fps)			
Frame Rate	Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps)			
	Third Stream: 1080P (1 fps-16 fps)			
Bit Rate Control	CBR/VBR			
Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps			
Day/Night	Auto(ICR)/Color/B/W			
BLC Mode	BLC/HLC/WDR (140 dB)			
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual			
Gain Control	Auto/Manual			
Noise Reduction	3D DNR			
Motion Detection	Off/On (4 Zone, Rectangle)			
Region of Interest	Off/On (4 Zone)			
Electronic Image Stabilization (EIS)	Yes			
Smart Illumination	Yes			
Defog	Yes			
Flip	0°/90°/180°/270°			
Mirror	Off/On			
Privacy Masking	Off/On (4 Area, Rectangle)			
Audio				
Audio Compression	G.711a, G.711Mu, AAC, G.726, G.723			



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InterfaceTest (specification)SDK and APIYesProtocolRYMP; (Profile S/Profile G/Profile T), CGI, Milestone, (STTP; Multicast); (CMP; (MP); PPPe); JEEEB02, 1x; SNMPInteroperabilityCentecc, P2PUser/Host20 UsersStorageNAS; FTP; SFTP; Dahua Cloud Micro SD card (support max. 256 G)BrowserLE (versions newer than IEB), Chrome, Firefox, Safari (versions newer than Safari 12)Management SoftwareSmart PSS, DMSSMobile PhoneioS, AndroidCertifications <td>Network</td> <td></td>	Network				
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