

DH-IPC-HFW8242E-Z4FR-IRA-LED

2MP Starlight Bullet Network Camera



Deep · Sense

DeepSense series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua DeepSense series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.The complete lineup of Dahua DeepSense includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Face recognition AI network camera is designed to focus on the recognition of frontal human faces, it adopts high performance smart chip with deep learning technology, which can provide high precision face image snapshot and comparison. This product supports real-time face detection, face attributes analysis, face images comparison and face image database management.

Functions

Face Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Face Attributes

Through the use of deep learning algorithms to analyze facial images, Dahua cameras can extract six facial attributes from each frame, including gender, age, expression (happy, calm, surprised, sad, and angry), glasses, masks, and mustaches. Customers can acquire data of interest via face attributes statistics.

Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face recognition camera can

- · 1/1.9" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD memory, PoE+
- · Max. LED Length 10m
- \cdot Support face capture, face attributes, face recognition















extract six facial attributes and output the metadata for analysis.

Face Recognition

Once facial features are extracted from captured faces, they are stored in a database where they can be easily searched and compared against other images. Once a successful match is found, the system outputs the result. The Dahua Face Recognition camera supports a built-in database that stores up to 10,000 facial images, helping the camera achieve real-time face capture and comparison.

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness.

Wide dynamic range (WDR)

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.



	ecification				
Camera					
Image Sensor		1/1.9" 2Megapixel progressive scan CMOS			
Effective Pixels		1920(H)x1080(V)			
RAM/ROM		2048MB/4096MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.002Lux/F1.53(Color,1/3s,30IRE) 0.01Lux/F1.53(Color,1/30s,30IRE) 0Lux/F1.53(IR on)			
S/N Ratio		More than 50d	В		
LED Distance		Distance up to 10m(33ft)			
LED On/Off Con	trol	Auto/Manual			
LEDs		6			
Lens					
		Motorized			
Lens Type Mount Type		Board-in			
Mount Type Focal Length		8~32mm moto	rized		
Focal Length			112CU		
Max. Aperture Angle of View			F1.53 H: 40°~12.9° V:22°~7.2°		
Optical Zoom		4x			
Focus Control		Motorized			
Close Focus Dis	tance	3m(9.84ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	106m(348ft)	42m(138ft)	21m(69ft)	10m(32ft)
Distance	Т	320m(1050ft)	128m(420ft)	64m(210ft)	32m(105f
Pan/Tilt/Rot	ation				
Pan/Tilt/Rotation	on Range	Pan:0°~360°; Ti	lt:0°~90°; Rota	tion:0°~360°	
Artificial Int	elligence				
ALUITUIDI IIIL	_		Support face image capture		
Face Capture		Support face in	nage capture		
		Support 6 kinds Gender, Expres Glasses, Mouth	s of face attribu sion(Jolly, Calm	n, Surprise, Sa	
Face Capture		Support 6 kinds Gender, Expres	s of face attribusion (Jolly, Calm Mask, Mousta	n, Surprise, Sa ache & Beard g, support up t	d, Rage), to 10000
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Face Capture Face Attributes Face Recognition General Intel Event Trigger General Intellige Video	elligence	Support 6 kind. Gender, Expres Glasses, Mouth Support face in face images an Motion detecti Network discor Access, Storage Tripwire, Intrus Counting, Heat	s of face attribusion(Jolly, Calmin Mask, Moustanages matching d 5 image libration, Video tampinection, IP adanomaly ion, Object Abamap	n, Surprise, Sa ache & Beard g, support up t ries managem pering , Scene ldress conflict, andoned/Miss	d, Rage), to 10000 ent; changing, , Illegal
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	Main Stream: 1080P(1~50/60fps)	
Frame Rate	Sub Stream: D1 (1 ~ 50/60fps)	
	Third Stream: 1080P(1~50/60fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.264: 24~ 10240Kbps H.265: 14~ 6144Kbps	
Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / WDR(120dB)/ SSA	
White Balance	Auto/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)	Support	
Smart IR	N/A	
Defog	Support	
Digital Zoom	N/A	
Flip	0°/90°/180°/270°	
Mirror	Off / On	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	G.711a/ G.711Mu/ AAC/ G.726	
Network		
Ethernet	RJ-45 (100/1000Base-T)	
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS	
Interoperability	ONVIF Profile S&G, API	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users/20 Users	
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, DMSS	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	

Interface

Video Interface	1 port(BNC,1Vp-p,75Ω)
Audio Interface	1/1 channel In/Out
RS485	1 port
Alarm	3 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC
Power Out	165mA 12VDC

Electrical

Power Supply	DC12V, PoE+(802.3at)(Class 4)
Power Consumption	DC12V:5W 20W(IR on) PoE:5W 21W(IR on)

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	457mm*124.3mm*108mm(18"×4.89"×4.25")
Net Weight	1.87Kg (4.12lb)
Gross Weight	3.43Kg (7.56lb)

Ordering Information Type Part Number Description DH-IPC-2MP Starlight Bullet Network Camera, HFW8242EP-ZFR-BIRA-LED-0832 DH-IPC-HFW8242EN-ZFR-2MP Starlight Bullet Network Camera, BIRA-LED-0832 2MP camera IPC-HFW8242EP-2MP Starlight Bullet Network Camera, ZFR-BIRA-LED-0832 IPC-HFW8242EN-2MP Starlight Bullet Network Camera, ZFR-BIRA-LED-0832 PFA150 Pole Mount Accessories PFA151 Corner Mount (optional)

Water-proof Power Box

Accessories

Optional:







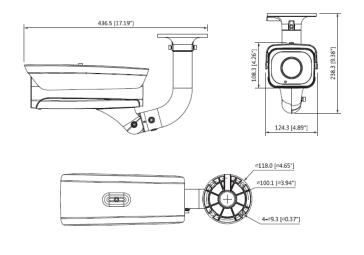
PFA150 Pole Mount

PFA151 Corner Mount

PFA140 Water-proof PowerBox

Pole Mount	Corner Mount	Water-proof Power Box
PFA150	PFA151	PFA140
Wall Mount	Ceiling Mount	

Dimensions (mm/inch)





PFA140