

DH-IPC-HDBW8242E-Z4FD

2MP IR Starlight Dome Network Camera



Dahua AI 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 AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.The complete lineup of Dahua AI 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 detection AI network camera is designed to focus on the detection of frontal human faces, it adopts high performance smart chip with deep learning technology, which can provide high precision face detection. This product supports real-time face detection, face optimized snapshot, face enhancement and face attributes analysis.

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 extract six facial attributes and output the metadata for analysis.

- · 1/1.8" 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. IR LEDs Length 100m
- · Support face capture, face attributes













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.



Technical S	pecificatio	n						
Technical Specification Camera					Main Stream: 1080P(1~50/60fps)			
		1/1 0" 2Maganital progressive soon CMOS				Frame Rate	Sub Stream: D1 (1 ~ 50/60fps)	
Image Sensor		1/1.8" 2Megapixel progressive scan CMOS						Third Stream: 1080P(1~50/60fps)
Effective Pixels		1920(H)x1080(V)				Bit Rate Control	CBR/VBR	
RAM/ROM		2048MB/4096MB					Bit Rate	H.264: 24~ 10240Kbps
Scanning System		Progressive					Day/Night	H.265: 14~ 6144Kbps Auto(ICR) / Color / B/W
Electronic Shutter Speed		Auto/Manual, 1/3~1/10000s				BLC Mode	BLC / HLC / WDR(120dB)/ SSA	
Minimum Illumination		0.002Lux/F1.53(Color,1/3s,30IRE) 0.01Lux/F1.53(Color,1/30s,30IRE)				White Balance		
2/2.2		OLux/F1.53(IR on)					Auto/Manual	
S/N Ratio		More than 50dB					Gain Control	Auto/Manual
IR Distance		Distance up to 100m(328ft)					Noise Reduction	3D DNR
IR On/Off Cont	trol	Auto/Manual					Motion Detection	Off / On (4 Zone, Rectangle)
IR LEDs		3					Region of Interest	Off / On (4 Zone)
Lens						Electronic Image Stabilization (EIS)	Support	
Lens Type Mount Type		Motorized Board-in					Smart IR	N/A
Mount Type Focal Length		8~32mm motorized					Defog	Support
Max. Aperture		F1.53					Digital Zoom	16x
Angle of View		H: 40°~12.9° V:22°~7.2°				Flip	0°/90°/180°/270°	
Optical Zoom		4x				Mirror	Off / On	
Focus Control Close Focus Di	stance	Motorized 3m(9.84ft)				Privacy Masking	Off / On (4 Area, Rectangle)	
	Lens	Detect	Observe	Recognize	Identify		Audio	
DORI Distance	W	106m(348ft)	42m(138ft)	21m(69ft)	10m(32ft)		Compression	G.711a/ G.711Mu/ AAC/ G.726
	Т .	320m(1050ft)	128m(420ft)	64m(210ft)	32m(105ft)			3.7114, 3.711mg, 7.715, 3.725
Pan/Tilt/Rotation					Network			
Pan/Tilt/Rotat	_	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°				Ethernet	RJ-45 (100/1000Base-T)	
Artificial Int	telligence					Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;	
Face Caputure		Support face i	mage caputure	!				NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
		Support 6 kinds of face attributes extraction: Age,					Interoperability	ONVIF Profile S&G, API
Face Attributes			Gender, Expression(Jolly, Calm, Surprise, Sad, Rage), Glasses, Mouth Mask, Moustache & Beard				Streaming Method	Unicast / Multicast
General Intelligence							Max. User Access	10 Users/20 Users
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly					Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
General Intelligence		Tripwire, Intrusion, Object Abandoned/Missing, People Counting, Heat Map					Web Viewer	IE, Chrome, Firefox, Safari
Video				Management Software	Smart PSS, DSS, DMSS			
Compression		H.265/H.264/H.264B/H.264H/MJPEG(sub stream)				Smart Phone	IOS, Android	
Smart Codec		Support H.265+/H.264+				Certifications		
Streaming Capability		3 Streams					Certifications	CE (EN 60950:2000) UL:UL60950-1
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ VGA(640x480)				Col unicutoffs	FCC: FCC Part 15 Subpart B	

Interface

Video Interface	1 Port(For adjustment only)
Audio Interface	1/1 channel In/Out
RS485	1 port
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC

Electrical

Power Supply	DC12V, AC24V, PoE+(802.3at)(Class 4)	
Power Consumption	DC12V:6.6W 15.84W(IR on) PoE:6.1W 14W(IR on)	

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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	Ф159.1mm*117.9mm
Net Weight	0.99Kg (2.18lb)
Gross Weight	1.9Kg (4.19lb)

Ordering Information Part Number Type Description DH-IPC-2MP IR Starlight Dome Network Camera, HDBW8242EP-ZFD-0832 DH-IPC-2MP IR Starlight Dome Network Camera, NTSC HDBW8242EN-ZFD-0832 2MP camera IPC-HDBW8242EP-2MP IR Starlight Dome Network Camera, ZFD-0832 IPC-HDBW8242EN-2MP IR Starlight Dome Network Camera, ZFD-0832 Accessories PFA138 Junction Box (included) Wall mount PFB210W PFB201C In-ceiling mount Accessories PFB300C Ceiling mount (optional) PFA152-E Pole mount PFA101 Mount adapter

Accessories

Optional:







PFA138 Junction box

PFB210W Wall mount

PFA152-E Pole mount









PFA101 Mount adapter

Ceiling mount

In-ceiling mount

In-ceiling Mount	Junction Mount	Pole Mount		
PFB201C	PFA138	PFB210W+PFA152-E		
0				
Ceiling Mount	Wall Mount			
PFA101+PFB300C	PFB210W (Indoor)	PFB210W (Outdoor)		

Dimensions (mm/inch)





