

# DH-IPC-HDBW8241E-Z5

2MP IR People Counting AI Dome 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**

The Dahua People Counting camera uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

## **Functions**

# 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.

# Ultra WDR

Standard WDR/HDR camera can provide 120dB dynamic range, However, for some scenes with wider contrast range, 120dB is slightly insufficient. By adopting the latest technology, Dahua Cameras can provide an amazing dynamic range up to140dB.

### 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

- · 1/2.8" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(140dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 7mm ~35mm motorized lens
- · Micro SD memory, PoE+
- · Max. IR LEDs Length 100m









and storage requirements by up to 70% when compared to the standard video compression.



Technical S	pecificatio	n					
Camera							Main Stream: 1080P(1~50/60fps)
		1/2.8" 2Megapixel progressive scan CMOS				Frame Rate	Sub Stream: D1 (1 ~ 50/60fps)
Image Sensor				e scan CIVIUS			Third Stream: 1080P(1~19/29fps)
Effective Pixels		1920(H)x1080(V)				Bit Rate Control	CBR/VBR
RAM/ROM		1024MB/4096	MB				H.264: 24~ 10240Kbps
Scanning Syste	m	Progressive				Bit Rate	H.265: 14~ 6144Kbps
Electronic Shut	ter Speed	Auto/Manual,	1/3~1/100000	)s		Day/Night	Auto(ICR) / Color / B/W
		0.006Lux/F1.4 (Color,1/3s,30IRE)				BLC Mode	BLC / HLC / WDR(140dB)/ SSA
Minimum Illumination		0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)				White Balance	Auto/Manual
S/N Ratio		Less than 50dB				Gain Control	Auto/Manual
IR Distance		Distance up to 100m(328ft)				Noise Reduction	3D DNR
IR On/Off Cont	rol	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		Motorized				Smart IR	Support
Mount Type  Focal Length		Board-in 7~35mm moto	rized			Defog	Support
Max. Aperture		F1.4	nizeu			Digital Zoom	16x
Angle of View		H: 34.45° ~ 10.68°, V: 19.75° ~ 5.99°					
Optical Zoom		5x				Flip	0°/90°/180°/270°
Focus Control		Motorized				Mirror	Off / On
Close Focus Dis	tance	2m(6.56ft)				Privacy Masking	Off / On (4 Area, Rectangle)
DORI	Lens	Detect	Observe	Recognize	Identify	Audio	
Distance	W	124m(406ft)	50m(164ft)	25m(82ft)	12m(39ft)	Compression	G.711a/ G.711Mu/ AAC/ G.726
	T	428m(1404ft)	171m(561ft)	86m(282ft)	43m(141ft)	·	5.711d, 5.711Md, 77.76, 5.725
Pan/Tilt/Rotation Network							
Pan/Tilt/Rotation Range		Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°				Ethernet	RJ-45 (100/1000Base-T)
Artificial Intelligence People Counting		Line crossing people counting, Region people counting,				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
		zoitering inter				Interoperability	ONVIF Profile S&G, API
General Inte			Streaming Method	Unicast / Multicast			
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				Max. User Access	10 Users/20 Users
General Intelligence		N/A				Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
Video						Web Viewer	IE, Chrome, Firefox, Safari
Compression		H.265/H.264/H.264B/H.264H/MJPEG(sub stream)				Management Software	Smart PSS, DSS, DMSS
Smart Codec		Support H.265+/H.264+				Smart Phone	IOS, Android
Streaming Capa	ability	3 Streams				Certifications	
Resolution		1080P(1920×1 D1(704×576/7			P(1280x720)/	Certifications	CE (EN 60950:2000) UL:UL60950-1 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

Po	wer Supply	DC12V, AC24V, PoE(802.3at)(Class 4)
Ро	wer Consumption	DC12V:5.9W 15.7W(IR on) AC24V: 5.7W 15.1W(IR on) PoE:5.3W 14.1W(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	Ф159.1mm*117.9mm
Net Weight	1.06Kg (2.34lb)
Gross Weight	1.28Kg (2.82lb)

#### **Ordering Information** Part Number Description Type DH-IPC-2MP IR People Counting AI Dome HDBW8241EP-Z-0735 Network Camera 2MP camera IPC-HDBW8241EP-Z-0735 2MP IR People Counting AI Dome Network Camera Accessories PFA138 Junction Box (included) PFB210W Wall mount 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

PFB201C 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)





