

DH-IPC-HDBW3241E-Z

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

Powered by deep-learning Artificial Intelligence algorithms, Dahua's DeepIVS significantly reduces false alarms and decreases pixel count requirements for object detection. DeepIVS features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

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 (0.005 lux).

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.

- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.7mm ~13.5mm motorized lens
- Max. IR LEDs Length 50m
- Micro SD memory, IP67, IK10, PoE+



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.



Al Series | IPC-HDBW3241E-Z

Technical Specification

Resolution

Frame Rate

Bit Rate Control

Bit Rate

Technical Specification					
Camera					
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS			
Effective Pixels		1920(H)x1080(V)			
RAM/ROM		1024MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.005Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m(164ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		3	3		
Lens					
Lens Type		Motorized			
Mount Type		Board-in			
Focal Length		2.7mm~13.5mm			
Max. Aperture		F1.4			
Angle of View		H: 110°~31°, V: 57°~17.7°			
Optical Zoom		5x			
Focus Control		Motorized			
Close Focus Distance		0.3m(0.98ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)
	Т	143m(469ft)	57m(187ft)	29m(95ft)	14m(46ft)
Pan/Tilt/Rot	tation				
Pan/Tilt/Rotation Range		Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°			
Artificial Int	elligence				
Deep IVS		Tripwire, Intrusion(Human&Vehicle classification)			
Video					
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+			
Streaming Capability		3 Streams			

1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)

Main Stream: 1080P(1~25/30fps)

Sub Stream: D1 (1 ~ 25/30fps) Third Stream: 1080P(1~25/30fps)

CBR/VBR

H.264: 32~ 8192Kbps H.265: 16~ 6144Kbps

Day/Night	Auto(ICR) / Color / B/W				
BLC Mode	BLC / HLC / WDR(120dB)/				
White Balance	Auto/Manual				
Gain Control	Auto/Manual				
Noise Reduction	3D DNR				
Motion Detetion	Off / On (4 Zone, Rectangle)				
Region of Interest	Off / On (4 Zone)				
Electronic Image Stabilization(EIS)	N/A				
Smart IR	Support				
Defog	N/A				
Digital Zoom	16x				
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 (10/100/1000Base-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 Mirco 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(For adjustment only)				
Audio Interface	1/1 channel In/Out				
RS485	N/A				
Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC				
Electrical					
Power Supply	DC12V(±25%),AC24V(±30%), PoE+ (802.3at)				
	DC 12V: 6.9W 14.4W(IR on)				
Power Consumption	PoE: 6.4W 13.2W(IR on)				

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Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH		
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Ingress Protection	IP67		
Vandal Resistance	IK10		
Construction			
Casing	Metal		
Dimensions	Φ159.1mm×117.9mm(Φ6.26"×4.64")		
Net Weight	0.93kg(2.05lb)		
Gross Weight	1.16 kg(2.56lb)		

Ordering Information

Туре	Part Number	Description	
2MP camera	DH-IPC- HDBW3241EP-Z-27135	2MP IR Starlight Dome Network Camera,PAL	
	DH-IPC- HDBW3241EN-Z-27135	2MP IR Starlight Dome Network Camera,NTSC	
	IPC- HDBW3241EP-Z-27135	2MP IR Starlight Dome Network Camera,PAL	
	IPC- HDBW3241EN-Z-27135	2MP IR Starlight Dome Network Camera,NTSC	
Accessories (included)	PFA138	Junction Box	
Accessories (optional)	PFB302S	Wall mount	
	PFB201C	In-ceiling mount	
	PFB300C	Ceiling mount	
	PFA152-E	Pole mount	
	PFA101	Mount adapter	

Accessories

PFA138

Junction box

Optional:







PFB210W Wall mount

PFA152-E Pole mount







PFA101 Mount adapter

PFB300C Ceiling mount

PFB201C In-ceiling mount





