

DH-IPC-HFW3241E-Z5

2MP IR Starlight Bullet 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.

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

- · 1/2.8" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 7mm ~35mm motorized lens
- · Max. IR LEDs Length 100m
- · Micro SD memory, IP67, IK10, PoE+











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 Specification					
Camera					
Image Sensor		1/2.8 2Megapi	xel progressive	e scan CMOS	
Effective Pixels		1920(H)x1080	(V)		
RAM/ROM		1024MB/128M			
		Progressive			
Scanning System					
Electronic Shutter Speed Minimum Illumination		Auto/Manual, 1/3~1/100000s 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	Distance up to 100m(328ft)		
IR On/Off Contro	ıl	Auto/Manual			
IR LEDs	·				
Lens					
Lens Type					
Mount Type		Motorized Board-in			
Focal Length		7mm~35mm			
Max. Aperture		F1.4	F1.4		
Angle of View		H: 36° ~13° , V:	: 20°~ 7°		
Optical Zoom		5x			
Focus Control		Motorized			
Close Focus Dista	ance	1.5m(4.9ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Disstant	W	131m(429ft)	52m(170ft)	26m(85ft)	26m(85ft)
Disstant	Т	428m(1404ft)	171m(561ft)	86m(282ft)	43m(141ft)
Pan/Tilt/Rota	ition				
Pan/Tilt/Rotation	n Range	Pan:0°~360°; T	ilt:0°~90°; Rota	ation:0°~360°	
Artificial Inte	lligence				
Deep IVS		Tripwire, Intru	sion(Human&V	ehicle classific	ation)
Video					
Compression	Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)		
Smart Codec		Support H.265+/H.264+			
Streaming Capab	ility	3 Streams			
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480)/ CIF(352×288/352×240)			
Frame Rate		Main Stream: 1080P(1~50/60fps)			
		Sub Stream: D1 (1 ~ 50/60fps)			
		Third Stream:	1080P(1~50/60	Ofps)	

Bit Rate Control	CBR/VBR	
Bit Rate	H.264H:32Kbps ~ 8192Kbps H.265:16Kbps~ 6144Kbps	
Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / WDR(120dB)	
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto	
Noise Reduction	3D DNR	
Motion Detection	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 (10/100Base-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	2 channel In: 3.3V~5VDC 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V, PoE(802.3at)(Class 4)
Power Consumption	DC 12V: 4.84W 13.9W(IR on) PoE: 7.28W 18.8W(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	273.2mm×95.0mm×96.4mm (10.76"×3.74"×3.79")
Net Weight	1.12Kg (2.47lb)
Gross Weight	1.52Kg (3.35lb)

Ordering Information Part Number Description Type 2MP IR Starlight Bullet Network HFW3241EP-Z-0735 Camera, PAL 2MP IR Starlight Bullet Network Camera, NTSC DH-IPC-HFW3241EN-Z-0735 2MP camera 2MP IR Starlight Bullet Network IPC-HFW3241EP-Z-0735 Camera, PAL 2MP IR Starlight Bullet Network IPC-HFW3241EN-Z-0735 Camera, NTSC PFA121 Junction box Accessories (optional) PFA152-E Pole Mount

Accessories

Optional:





PFA121 Junction box

PFA152-E Pole mount

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152-E
Dimensions (mm/inch)	

Dimensions (mm/inch)





