

# DH-IPC-HFW3241E-Z

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
- · 2.7mm ~13.5mm motorized lens
- · Max. IR LEDs Length 50m
- · Micro SD memory, 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 progressiv	e scan CMOS	
Effective Pixels		1920(H)x1080	(V)		
RAM/ROM	RAM/ROM		1B		
Scanning Syster	n	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 Contr	·ol	Auto/Manual			
IR LEDs	·		4		
Lens					
Lens Type		Motorized	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 Dis	tance	0.3m(0.98ft)			
	Lens	Detece	Observe	Recognize	Identify
DORI	W	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)
Distance	Т	143m(469ft)	57m(187ft)	29m(95ft)	14m(46ft)
Pan/Tilt/Rot		115111(10510)	37111(10716)	23111(3314)	1(1010)
Pan/Tilt/Rotation	on Range	Pan:0°~360°; T	ilt:0°~90°; Rot	ation:0°~360°	
Artificial Int	elligence				
Deep IVS		Tripwire, Intru	sion(Human&\	Vehicle classif	ication)
Video					
Compression		H.265/H.264/H	H.264B/H.264	H/MJPEG(Sub	Stream)
Smart Codec		Support H.265+/H.264+			
Streaming Capa	bility	3 Streams			
Resolution		1080P(1920×1080)/ 1.3M(1280×960)/ 720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)			
		Main Stream: 1080P(1~25/30fps)			
Frame Rate		Sub Stream: D1 (1 ~ 25/30fps)			
		Third Stream: 1080P(1~25/30fps)			
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 (10/100/1000Base-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	10Users/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: 5mA 5VDC 1 channel Out: 300mA 12VDC

# Electrical

Power Supply	DC12V, PoE(802.3at)(Class 4)
Power Consumption	DC 12V: 4.48W 14.5W(IR on) PoE: 7.28W 19.6W(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	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 Camera, PAL HFW3241EP-Z-27135 2MP IR Starlight Bullet Network Camera, NTSC DH-IPC-HFW3241EN-Z-27135 2MP camera 2MP IR Starlight Bullet Network HFW3241EP-Z-27135 Camera, PAL 2MP IR Starlight Bullet Network Camera, NTSC IPC-HFW3241EN-Z-27135 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)	





