

# DH-IPC-HFW3441T-ZS

4MP Lite AI IR Vari-focal Bullet Network Camera



- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520)@30 fps
- · H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 60 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10(optional) protection
- · SMD













#### **System Overview**

With advanced deep learning algorithm, Dahua Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts starlight solution, which makes a better image effect in low illuminance.

#### **Functions**

#### Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

#### Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

#### Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

#### Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

#### **Smart Motion Detection (SMD)**

With intelligent algorithm, Dahua Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

#### Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



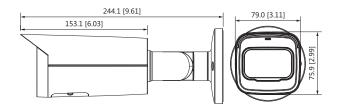
Technical Specification							Day/Night	Auto(ICR)/Color/B/W
Camera						BLC	Yes	
Image Sensor		1/2.7"4Megapixel progressive CMOS					HLC	Yes
Effective Pixels		2688 (H) ×1520 (V)					WDR	120 dB
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
RAM		512 MB					Gain Control	Auto/Manual
Scanning System		Progressive					Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Motion Detection	OFF/ON (4 areas, rectangular)
Min. Illumination		0.005 Lux@F1.5					Region of Interest(RoI)	Yes (4 areas)
IR Distance		60 m (197 ft)					Smart IR	Yes
IR On/Off Control		Auto/Manual					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080
IR LEDs Number		4 (IR LEDs)					-	resolution.)
Pan/Tilt/Rotation Range		Horizontal: 0°–360°; vertical: 0°–90°; rotation: 0°–360°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Network	
Mount Type		ф14					Network	RJ-45 (10/100 Base-T)
Focal Length  Max. Aperture		2.7 mm-13.5 mm F1.5					Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP
,		Horizontal: 104°–27°					Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Field of View	Field of View		–15° 4° –31°				Scene Self-adaptation	Yes
Iris Type		Fixed aperture					User/Host	20 (Total bandwidth: 64 M)
Close Focus Distance		0.8 m (2.6 ft)					Edge Storage	FTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS
	Lens	Detect	Observe	Recognize	Identify		Browser	IE: IE8, IE9, IE11 Chrome
DORI Distance	W	64.0 m (210.0ft)	25.6 m (84.0 ft)	12.8 m (42.0 ft)	6.4 m (21.0 ft)		biowsei	Firefox
	Т	222.0 m	88.8m	44.4 m	22.2 m		Management Software	Smart PSS, DSS, DMSS
Professional	Intellig	(728.3 ft)	(291.3 ft)	(145.7 ft)	(72.8 ft)		Mobile Phone	IOS; Android
Professional, Intelligent				and vohicle)		Certification		
Perimeter Protection  Intelligent Search		Tripwire; intrusion (Recognition of human and vehicle)  Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video							Power	
Video Compressi	Video Compression		; Н.264Н; Н.26	64B; MJPEG			Power Supply	12V DC/PoE (802.3af)
Smart Codec		Yes					Power Consumption	< 9.8W
		Main stream (2688 × 1520@1–25/30 fps) sub stream (704 × 576@1–25/30 fps) third stream (1280 × 720@1–25/30 fps)					Environment	
Video Frame Rate							Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%
Stream Capability		3 streams					Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Resolution		4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Ingress Protection	IP67
							Structure	
Bit Rate Control		CBR/VBR					Casing	Metal
Video Bit Rate		H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps					Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.6" × 3.1" × 3.0") (L × W × H)

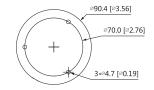
# Lite Al Series | DH-IPC-HFW3441T-ZS

Net Weight	820 g (1.8lb)
Gross Weight	1090 g (2.4lb)

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC-HFW3441TP-ZS	4MP Lite AI IR Vari-focal Bullet Network Camera,PAL				
	DH-IPC-HFW3441TN-ZS	4MP Lite AI IR Vari-focal Bullet Network Camera,NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	DC12V1A Power Adapter				
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

# Dimensions (mm[inch])





# Accessories

### **Optional:**



PFA130-E Junction Box



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFM900-E Integrated Mount tester



PFM114 TLC SD card

Pole Mount	Junction Box	
PFA130+PFA152-E	PFB130-E	

