

# DH-IPC-HFW2831T-ZAS

8MP WDR IR Dome Network Camera



#### **System Overview**

The IR Megapixel Vari-focal camera delivers with a 2.7 mm - 13.5 mm or 3.7 mm - 11 mm varifocal lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

#### **Functions**

## 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.

## 4K Technology

 $4 \mbox{K}$  technology as a revolutionary breakthrough in image, which enhance the expressive image of essence, allowing users to experience the best picture quality brought about by the visual feast . For the purposes of  $4 \mbox{K}$  surveillance with four times the  $1080 \mbox{P}$  resolution, presented to the user with more details . Under the same scenario by raising the pixels , reduce the camera cost.

#### Intelligent Video Analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

- · 1/1.8" 8Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@8MP(3840×2160)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · Micro SD card slot, up to 128GB
- · 3.7~11mm motorized lens
- · Max IR LEDs Length 60m
- · IP67, IK10(optional), PoE











### Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 60m (197ft).

#### Protection (IP67, wide voltage)

The camera allows for  $\pm 25\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) , the camera is the choice for installation in even the most unforgiving environments.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification					Day/Night	Auto(ICR) / Color / B/W	
Camera							
		1/1.8" 8Megapixel progressive CMOS				BLC Mode	BLC / HLC / WDR(120dB)
Image Sensor		3840(H) x2160(V)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels		512MB/128MB				Gain Control	Auto/Manual
RAM/ROM			,			Noise Reduction	3D DNR
Scanning System		Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed		Auto/Manual,	1/3~1/100000	Os		Region of Interest	Off / On (4 Zone)
Minimum Illumination		0.004Lux/F1.9 0.09Lux/F1.9 ( 0Lux/F1.9(IR o	Color,1/30s,30			Electronic Image Stabilization(EIS)	N/A
S/N Ratio	S/N Ratio		ЯВ			Smart IR	Support
IR Distance		Distance up to	60m(197ft)			Digital Zoom	16x
IR On/Off Contro	ol	Auto/ Manual				Flip	0°/90°/180°/270°
IR LEDs		4				Mirror	Off / On
						Privacy Masking	Off / On (4 Area, Rectangle)
Lens						Audio	
Lens Type		Motorized				Compression	G.711a/ G.711Mu/ AAC/ G.726
Mount Type		Board-in				Network	
Focal Length		3.7mm~11mm				Ethernet	RJ-45 (10/100Base-T)
Max. Aperture		F1.9					HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP;
Angle of View Focus Control		H:112°~46°, V:60°~26°				Protocol	FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TL S;NFS;SSH
Close Focus Dist	ance	0.2m(0.66ft)				Interoperability	ONVIF, PSIA, CGI
Close Focus Bise	Lens	Detect	Observe	Recognize	Identify	Streaming Method	Unicast / Multicast
DORI Distance	W	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)	Max. User Access	10 Users / 20 Users
	Т	190m(623ft)	76m(249t)	38m(125ft)	19m(62ft)		NAS
PTZ	PTZ					Edge Storage	Local PC for instant recording Micro SD Card 128GB
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence						Management Software	Smart PSS, DSS, DMSS
Event Trigger		Motion detect Network disco access, Storage	nnection, IP a	. 0,	0 0,	Smart Phone	IOS, Android
IVS		Tripwire, Intrus	,			Certifications	
Video		, ,				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264H/MJPEG(Sub Stream)				Interface	
Smart Codec		Support H.265	+/H.264+			Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	1/1 channel In/Out
		4K(3840×2160 3M(2048x1536			0×1920)/	RS485	N/A
Resolution		1080P(1920×1 720P(1280×72 VGA(640×480)	0)/D1(704×57	6/704×480)/		Alarm	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
		Main Stream: 4K (1~25/30fps)				Electrical	
Frame Rate		Sub Stream: D3	1(1~25/30fps)				DC13V PoE (902 3afV/class 0)
Bit Rate Control		CBR/VBR				Power Supply	DC12V PoE (802.3af)(Class 0)
Bit Rate		H.264: 32Kbps~8192Kbps H.265: 16Kbps~8192Kbps				Power Consumption	<14.3W
		H.265: 16Kbps~8192Kbps					

## Lite Series | DH-IPC-HFW2831T-ZAS

## Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	IK10(optional)

#### Construction

Casing	Metal
Dimensions	244.1mm×79mm×75.9mm (9.61"×3.11"×2.99")
Net Weight	0.824Kg (1.82lb)
Gross Weight	1.09Kg(2.4lb)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC-HFW2831TP- ZAS	8MP WDR IR Dome Network Camera, PAL				
8MP camera	DH-IPC-HFW2831TN- ZAS	8MP WDR IR Dome Network Camera, NTSC				
own camera	IPC-HFW2831TP-ZAS	8MP WDR IR Dome Network Camera, PAL				
	IPC-HFW2831TN-ZAS	8MP WDR IR Dome Network Camera, NTSC				
Accessories	PFA135	Junction box				
(optional)	PFA152-E	Pole Mount				

## Accessories

## Optional:



Junction Box





PFA152-E Pole Mount

Junction Mount	Pole Mount
PFA135	PFA135 + PFA152-E

## Dimensions (mm/inch)



