

DH-IPC-HFW2531T-ZAS/VFAS

5MP WDR IR Bullet Network Camera



System Overview

The IR Megapixel Vari-focal camera delivers 5MP resolution with a 2.7mm \sim 13.5mm 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.

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.

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.

- · 1/2.7" 5Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 15fps@5M(2592×1944)&25/30fps@3M(2304×1296)
- · 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
- · 2.7~13.5mm varifocal lens
- \cdot Max IR LEDs Length 60m
- · IP67, IK10(optional), PoE+



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 ±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.

Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

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



Lite Series | DH-IPC-HFW2531T-ZAS/VFAS

Technical Specification

Camera					
Image Sensor		1/2.7" 5Megapixel progressive CMOS			
Effective Pixels		2592(H) x1944(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.02Lux/F1.6(Color,1/3s,30IRE) 0.2Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 60m(197ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		4			
Lens					
Lens Type		Motorized(-ZS), Manual(-VFS)			
Mount Type		Board-in			
Focal Length		2.7mm~13.5mm			
Max. Aperture		F1.4			
Angle of View		H:95°~27°, V:70°~20°			
Focus Control		Motorized(-ZS),Manual(-VFS)			
Close Focus Distance		0.3m			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	64m(210t)	26m(85ft)	13m(43ft)	6m(20ft)
077	Т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)
PTZ					
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°			
Intelligence					
Event Trigger		Motion detection, Video tampering , Scene changing , Network disconnection , IP address conflict, Illegal Access,Storage anomaly			
IVS		Tripwire, Intrusion			
Video					
Compression		H.265/H.264H/MJPEG(Sub Stream)			
Smart Codec	Smart Codec		Support H.265+/H.264+		
Streaming Capability		2 Streams			
Resolution		5M(2592×1944)/4M(2688×1520)/3M(2304×1296/2 048×1536)/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)			
Frame Rate		Main Stream: 5M (1 ~ 15fps)/3M(1 ~ 25/30fps)			
		Sub Stream: D1/CIF(1~25/30fps)			
Bit Rate Control		CBR/VBR			

Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps				
Day/Night	Auto(ICR) / Color / B/W				
BLC Mode	BLC / HLC / WDR(120dB)				
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual				
Gain Control	Auto/Manual				
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				
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;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;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 Micro 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	N/A				
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,PoE+ (IEEE 802.3at)(Class 4)				
Power Consumption	<15W(-ZAS), <13W(-VFAS)				

Lite Series | DH-IPC-HFW2531T-ZAS/VFAS

Environmental

Ordering Information

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH			
Storage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH			
Ingress Protection	IP67			
Vandal Resistance	IK10(Optional)			
Construction				
Casing	Metal			
Dimensions	244.1mm×79mm×75.9mm (9.61"×3.11"×2.99")			
Net Weight	0.815kg (1.80lb)			
Gross Weight	1.08kg (2.38lb)			

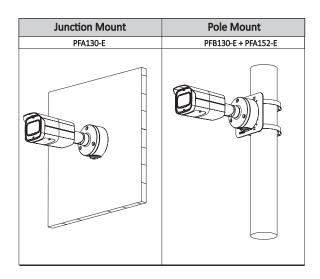
Accessories

Optional:

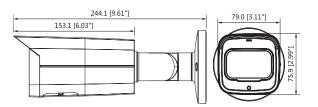




PFA130-E Junction Box PFA152-E Pole Mount



Dimensions (mm/inch)





Part Number Туре Description DH-IPC-HFW2531TP-5MP WDR IR Bullet Network Camera, ZAS PAL 5MP WDR IR Bullet Network Camera, DH-IPC-HFW2531TN-NTSC ZAS 5MP WDR IR Bullet Network Camera, IPC-HFW2531TP-ZAS PAL 5MP WDR IR Bullet Network Camera, IPC-HFW2531TN-ZAS NTSC 4MP camera DH-IPC-HFW2531TP-5MP WDR IR Bullet Network Camera, VFAS PAL 5MP WDR IR Bullet Network Camera, DH-IPC-HFW2531TN-NTSC VFAS 5MP WDR IR Bullet Network Camera, IPC-HFW2531TP-VFAS PAL 5MP WDR IR Bullet Network Camera, IPC-HFW2531TN-NTSC VFAS PFA130-E Junction box

Pole mount

Accessories

(optional)

PFA152-E



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