

DH-IPC-HFW2531T-ZS/VFS

5MP WDR IR Bullet Network Camera



- · 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
- · Max IR LEDs Length 60m
- · IP67, IK10(optional), PoE+











System Overview

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

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.

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.



Technical Specification					Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps	
Camera					Day/Night	Auto(ICR) / Color / B/W	
Image Sensor		1/2.7" 5Megapixel progressive CMOS				BLC Mode	BLC / HLC / WDR(120dB)
Effective Pixels		2592(H) x1944(V)					
RAM/ROM		512MB/32MB				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Scanning System		Progressive				Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Noise Reduction	3D DNR
Minimum Illumination		0.02Lux/F1.6(Color,1/3s,30IRE) 0.2Lux/F1.6(Color,1/30s,30IRE)				Motion Detection Region of Interest	Off / On (4 Zone, Rectangle) Off / On (4 Zone)
S/N Ratio		OLux/F1.6(IR on) More than 50dB				Electronic Image	N/A
IR Distance		Distance up to 60m(197ft)				Stabilization(EIS)	Support
IR On/Off Control		Auto/ Manual				Smart IR	Support
IR LEDs		4				Digital Zoom	16x
Lens						Flip	0°/90°/180°/270°
Lens Type		Motorized (-ZS), Manual (-VFS)				Mirror	Off / On
Mount Type		Board-in				Privacy Masking	Off / On (4 Area, Rectangle)
Focal Length		2.7mm~13.5mm				Audio	
						Compression	G.711a/ G.711Mu/ AAC/ G.726
Max. Aperture		F1.4				Network	
Angle of View		H:95°~27°, V:70°~20°				Ethernet	RJ-45 (10/100Base-T)
Focus Control Close Focus Distance		Motorized(-ZS),Manual(-VFS) 0.3m				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
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF Profile S&G, API
DORI Distance	W	64m(210t)	26m(85ft)	13m(43ft)	6m(20ft)	Streaming Method	Unicast / Multicast
	Т	222m(728ft)	89m(292ft)	44m(144ft)	22m(72ft)	Max. User Access	10 Users / 20 Users
PTZ Pan/Tilt Range Pan:		Pan:0° ~360° ;	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°			Edge Storage	NAS Local PC for instant recording Micro SD Card 128GB
Intelligence		, , , , , , , , , , , , , , , , , , , ,				Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger		Motion detection, Video tampering , Scene changing , Network disconnection , IP address conflict, Illegal				Management Software	Smart PSS, DSS, DMSS
		Access,Storage anomaly				Smart Phone	IOS, Android
IVS		Tripwire, Intrusion				Certifications	
Video Compression		H.265/H.264H/MJPEG(Sub Stream)				Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Smart Codec		Support H.265+/H.264+				Interface	
Streaming Capability		2 Streams				Video Interface	N/A
Resolution		5M(2592×1944)/4M(2688x1520)/3M(2304×1296/2				Audio Interface	N/A
		048x1536)/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/VGA(640×480)/ CIF(352×288/352×240)			0×720)/	RS485	N/A
						Alarm	N/A
Frame Rate		Main Stream: 5M (1 ~ 15fps)/3M(1 ~ 25/30fps)				Electrical	
гтатте кате		Sub Stream: D1/CIF(1 ~ 25/30fps)				Power Supply	DC12V,PoE+ (IEEE 802.3at)(Class 4)
Bit Rate Control		CBR/VBR				Power Consumption	<15W(-ZS), <13W(-VFS)

Environmental

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)

Ordering Information						
Туре	Part Number	Description				
	DH-IPC-HFW2531TP- ZS	5MP WDR IR Bullet Network Camera, PAL				
	DH-IPC-HFW2531TN- ZS	5MP WDR IR Bullet Network Camera, NTSC				
	IPC-HFW2531TP-ZS	5MP WDR IR Bullet Network Camera, PAL				
4MP camera	IPC-HFW2531TN-ZS	5MP WDR IR Bullet Network Camera, NTSC				
4IVIF Calliela	DH-IPC-HFW2531TP- VFS	5MP WDR IR Bullet Network Camera, PAL				
	DH-IPC-HFW2531TN- VFS	5MP WDR IR Bullet Network Camera, NTSC				
	IPC-HFW2531TP-VFS	5MP WDR IR Bullet Network Camera, PAL				
	IPC-HFW2531TN-VFS	5MP WDR IR Bullet Network Camera, NTSC				
Accessories	PFA130-E	Junction box				
(optional)	PFA152-E	Pole mount				

Accessories

Optional:





PFA130-E Junction Box

PFA152-E Pole Mount

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

Dimensions (mm/inch)



