

# DH-IPC-HFW2531T-S-S2

5MP Lite IR Fixed-focal Bullet Network Camera



#### **Series Overview**

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying to the standards of IP67 and IK10 (Supported by some select models).

#### **Functions**

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

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

## **WDR**

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

## Starlight

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

- · 5MP, 1/2.7" CMOS image sensor, low illuminance, high definition image
- $\cdot$  Outputs max. 5MP (2592 × 1944)@20 fps, and supports 2688 × 1520 (2688 × 1520)@25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED. max IR distance: 80 m
- · Rol, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- · Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, local alarm, voltage detection, audio detection
- $\cdot$  Alarm: 1 in, 1 out; audio: 1 in, 1 out(optional); supports max. 256 GB Micro SD  $\,$  card
- · 12 V DC/PoE power support supply
- · IP67 protection, IK10 protection (optional)













#### IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

## **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

#### Protection (IP67, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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 Sp	ocificati	on						2592 × 1944 (2592 × 1944 ); 2688 × 1520 (2688 × 1520);
Camera	ecilicati	JII					Resolution	2560 × 1440 (2560 × 1440); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×
Image Sensor		1/2.7" CMOS						960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2592 (H) × 1944 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					V. 1 . D. D	H.264: 32 kbps-8192 kbps
RAM		256 MB					Video Bit Rate	H.265: 12 kbps-8192 kbps
Scanning System		Progressive					Day/Night	Auto (ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100,000 s					BLC	Yes
Min. Illumination		0.008 Lux@F1.6					HLC	Yes
S/N Ratio		> 56 dB					WDR	120 dB
Illumination Distance		80 m (262.5 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator On/Off Control		Auto/Manual					Gain Control	Auto/Manual
Illuminator Number		4 (IR LED)					Noise Reduction	3D NR
		Pan: 0°-360°					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotatio	n Range	Tilt: 0°–90° Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	$0^\circ/90^\circ/180^\circ/270^\circ$ (Supports $90^\circ/270^\circ$ with $2688\times1520$ resolution and lower)
Mount Type		M12					Mirror	Yes
Focal Length		3.6 mm; 6 mm; 8 mm 3.6 mm: F1.6					Privacy Masking	4 areas
Max. Aperture		6 mm: F1.6 8 mm: F1.6					Audio	
Field of View		3.6 mm: Horizontal 84° × Vertical 58° × Diagonal 110° 6 mm: Horizontal 51° × Vertical 37° × Diagonal 64°					Audio Compression	G.711a; G.711Mu; G.726
Tield of View		8 mm: Horizontal 40° × Vertical 29° × Diagonal 48°					Alarm	
Iris Type	Iris Type		Fixed				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm
Close Focus Distance		3.6 mm: 1.4 m (4.6 ft) 6 mm: 3.1 m (10.2 ft) 8 mm:4.9 m (16.1 ft)						
	Lens	Detect	Observe	Recognize	Identify		Network	
0.001	3.6 mm	80 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		Network	RJ-45 (10/100 Base-T)
DORI Distance	6 mm	120.0 m	48.0 m	24.0 m	12.0 m		SDK and API	Yes
		(393.7 ft) 160.0 m	(157.5 ft) 64.0 m	(78.7 ft) 32.0 m	(39.4 ft) 16.0 m			Video encryption; firmware encryption; configuration
8 mm Smart Event		(524.9 ft) (210.0 ft) (105.0 ft) (52.5 ft)					Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
IVS		Tripwire; intrusion						IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
Video							Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20
		Main stream: 2592 × 1944 (1 fps-20 fps)					Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Frame Rate		2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)					Browser	IE Chrome Firefox
Stream Capability		704 × 480 (1 fps–30 fps) 2 streams					Management Software	Smart PSS; DSS; DMSS

## Lite Series | DH-IPC-HFW2531T-S-S2

Mobile Phone	IOS; Android		
Certification			
Certifications	CE-LVD: EN62368-1 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		
Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	1 channel in: 5mA 3 V–5 V DC		
Alarm Output	1 channel out: 300mA 12 V DC		
Power			
Power Supply	12 V DC/PoE (802.3af)		
Power Consumption	< 8.2 W		
Environment			
Operating Conditions	-40 °C to +60 °C ( $-40$ °F to +140 °F)/less than ≤ 95% RH		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection Grade	IP67; IK10 (optional)		
Structure			
Casing	Metal		
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")		
Net Weight	0.91 kg (2.0 lb)		

Ordering Information						
Туре	Part Number	Description				
5MP	DH-IPC-HFW2531TP-S-S2	5MP Lite IR Fixed-focal Bullet Nework Camera,PAL				
Camera	DH-IPC-HFW2531TN-S-S2	5MP Lite IR Fixed-focal Bullet Nework Camera,NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	12 V DC 1A Power Adapter				
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD card				

1.16 kg (2.6 lb)

## Accessories

## **Optional:**



PFA130-E Junction Box



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



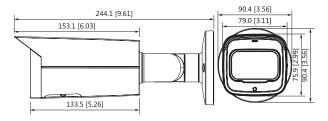
PFM321D 12V DC 1A Power Adapter

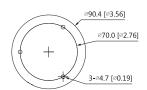


PFM114 TLC SD Card

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

## Dimensions (mm[inch])





Gross Weight