

DH-IPC-HFW2531T-AS-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 image definition
- · 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
- \cdot RoI, 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
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V 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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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.

Camera	Technical Sp	ecification	on						2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520);
Max. Resolution								Resolution	
ROM			1/2.7" 5Megapixel progressive CMOS						
RAM	Max. Resolution		2592 (H) × 1944 (V)					Bit Rate Control	CBR/VBR
Seaming System	ROM		128 MB					Video Bit Rate	·
Section System	RAM		256 MB						· ·
Min. Illimination	Scanning System		Progressive						
Min. Illumination	Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						
My My My My My My My My	Min. Illumination	n	0.008 Lux@F1.6						
	S/N Ratio		> 56 dB						
	Illumination Dist	tance	80 m (262.5 ft)					White Balance	
Motion Detection OFF/ON [4 areas, rectangular) Family Fami	Illuminator On/0	Off Control	Auto/Manual					Gain Control	Auto/Manual
Pan/Tit/Rotation Range Pan/Tit/Rotation Range Region of Interest (Rol) Yes (4 areas)	Illuminator Num	ber	4 (IR LED)					Noise Reduction	3D NR
Region of Interest (Rol) Yes (4 areas)	Pan/Tilt/Rotatio	n Range						Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type	rany mry Notatio	ni Nange						Region of Interest (RoI)	Yes (4 areas)
Mount Type								Smart Illumination	Yes
Focal Length								Image Rotation	
Max. Aperture								Mirror	Yes
Audio	i ocai Lengtii							Privacy Masking	4 areas
Field of View	Max. Aperture		6 mm: F1.6					Audio	
Iris Type	Field of View							Audio Compression	G.711a; G.711Mu; G.726
Alarm Event			~					Alarm	
Close Focus Distance	Iris Type		Fixed						
DORI Distance	Close Focus Distance		6 mm: 3.1 m (10.2 ft)					Alarm Event	detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local
DORI Distance A		Lens						Network	
120.0 m	0.001.01.1	3.6 mm						Network	RJ-45 (10/100 Base-T)
Smart Event IVS Tripwire; intrusion Video Video Compression Smart L.265; H.264; H.2648; MJPEG (only supported by the sub stream) Video Frame Rate Name Label Main stream: 2592 × 1944 (1 fps-25 fps) 2688 × 1520 (1 fps-25/30 fps) Substream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) Smart Some Line (105.0 ft) (105.0 f	DORI Distance	6 mm						SDK and API	Yes
Smart Event IVS Tripwire; intrusion Video Tripwire; intrusion Video Protocol H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ Video Frame Rate Main stream: 2592 × 1944 (1 fps-25 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-25 fps) 704 × 480 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) Management Software Wiser Mare execution; trusted importing of X.509 Certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DNS; DNS; DNS; DNS; DNS; DNS; DNS		8 mm							,, , , , , , ,
IVS Tripwire; intrusion Protocol Proto			(324.3 II) (210.0 II) (105.0 II) (52.5 Π)					Cyber Security	certification; syslog; HTTPS; 802.1x; trusted boot; trusted
Video Compression Wideo Compression Wideo Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+/ Smart H.264+ User/Host Video Frame Rate Wideo Frame Rate Wideo Frame Rate Protocol RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE; Bonjour ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P User/Host 20 Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS Sub stream: 704 × 576 (1 fps-25/30 fps) Sub stream: 704 × 480 (1 fps-30 fps) Management Software Management Software Smart PSS; DSS; DMSS			Tripwire; intr	usion					, , , , ,
Video Compression by the sub stream) Interoperability Genetec; P2P Smart Codec Smart H.265+/ Smart H.264+ User/Host 20 Main stream: 2592 × 1944 (1 fps-20 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS Browser Chrome Firefox Management Software Smart PSS; DSS; DMSS								Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;
Video Frame Rate Main stream: 2592 x 1944 (1 fps-20 fps) 2688 x 1520 (1 fps-25/30 fps) Sub stream: 704 x 576 (1 fps-25 fps) 704 x 480 (1 fps-30 fps) Storage FTP; SFTP; Micro SD Card (support max. 256 GB); NAS Browser Chrome Firefox Management Software Smart PSS; DSS; DMSS	Video Compression							Interoperability	
2592 × 1944 (1 fps-20 fps) 2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps) Management Software THY, STY, Wild 0 3D Cald (support linds: 250 db), NA3 IE Chrome Firefox Smart PSS; DSS; DMSS	Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20
Video Frame Rate 2688 × 1520 (1 fps-25/30 fps) IE Sub stream: 704 × 576 (1 fps-25 fps) Chrome 704 × 480 (1 fps-30 fps) Firefox Management Software Smart PSS; DSS; DMSS								Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Management Software Smart PSS; DSS; DMSS	Video Frame Rate		2688 × 1520 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps)					Browser	Chrome
	Stream Capability							Management Software	Smart PSS; DSS; DMSS

Lite Series | DH-IPC-HFW2531T-AS-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 3V–5V DC	
Alarm Output	1 channel out: 300mA 12V DC	
Power		
Power Supply	12V DC/PoE (802.3af)	
Power Consumption	< 8.2W	
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)	
Gross Weight	1.16 kg (2.6 lb)	

Ordering Information						
Туре	Part Number	Description				
5MP	DH-IPC-HFW2531TP-AS-S2	5MP Lite IR Fixed-focal Bullet Nework Camera,PAL				
Camera	DH-IPC-HFW2531TN-AS-S2	5MP Lite IR Fixed-focal Bullet Nework Camera,NTSC				
	PFA130-E	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	12V 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				

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])



