

DH-IPC-HDW2531T-AS-S2

5MP Lite IR Fixed-focal Eyeball Network Camera



- 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: 30 m
- 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 disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card, built-in MIC
- 12V DC/PoE power supply
- IP67 protection













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 with the standards of IP67 (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

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

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, 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.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification							2592×1944(2592×1944); 2688×1520(2688×1520); 3M(2048×1536); 2304×1296(2304×1296);	
Camera						Resolution	1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720); D1(704× 576/704×480);	
Image Sensor		1/2.7" 5Megapixel progressive CMOS					VGA(640×480); CIF(352×288/352×240)	
Max. Resolution		2592 (H) × 1	944 (V)			Bit Rate Control	CBR/VBR	
ROM		128 MB				Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps	
RAM		256 MB				Day/Night	Auto(ICR)/Color/B/W	
Scanning System		Progressive				BLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes	
Min. Illuminat	Min. Illumination		0.008 Lux @ F1.6			WDR	120 dB	
S/N Ratio		> 56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Illumination D	istance	30 m (98.43	30 m (98.43 ft)			Gain Control	Auto/Manual	
Illuminator Or	n/Off Control	Auto/Manua	Auto/Manual			Noise Reduction	3D NR	
Illuminator Nu	umber	2 (IR LED)	2 (IR LED)			Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rota	tion Range	Pan: 0°-360 Tilt: 0°-78°	Pan: 0°–360° Tilt: 0°–78°			Region of Interest(RoI)	Yes (4 areas)	
,,		Rotation: 0°–360°				Smart Illumination	Yes	
Lens						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with 2592×1944 resolution and lower.)	
Lens Type		Fixed				Mirror	Yes	
Mount Type			M12			Privacy Masking	4 areas	
Focal Length		2.8 mm 3.6 mm				Audio		
Max. Aperture	e	F1.6 F1.6				Built-in MIC	Yes	
		2.8 mm:	2.8 mm:			Audio Compression	G.711A; G.711Mu; G.726	
Field of View		3.6 mm:	Horizontal 103.0° × Vertical 71.0° × Diagonal 132.0° 3.6 mm: Horizontal 84.0° × Vertical 58.0° × Diagonal 110.0°			Alarm		
Iris Type		Fixed				Alama Frank	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video	
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft)				Alarm Event	tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception	
		3.6 mm: 1.6 m (3.61 ft)				Network	Network	
	Lens	Detect	Observe	Recognize	Identify	Network	RJ-45 (10/100 Base-T)	
DORI Distance	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	SDK and API	Yes	
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)		Video encryption; firmware encryption; configuration	
Smart ever	Smart event					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						
Video			IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;					
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour	
Smart Codec		Smart H.265+/ Smart H.264+				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P;	
Video Frame Rate		Main stream: 2592 × 1944 (1 fps-20 fps)				User/Host	Milestone; Genetec	
		2688 × 1520 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP	
							IE	
Stream Capability		2 streams				Browser	Chrome Firefox	

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Management Software	Smart PSS; DSS; DMSS
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

Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.2W

Environment

Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/less than ≤ 95%	
Storage Temperature	-40°C to +60°C (-40°F to +140°F)	
Protection	IP67	

Structure

Casing	Metal + Plastic
Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.56 kg (1.2 lb)

Ordering Information			
Туре	Part Number	Description	
5MP Camera	DH-IPC- HDW2531TP-AS-S2	5MP Lite IR Fixed-focal Eyeball Network Camera,PAL	
Sivii cumeru	DH-IPC- HDW2531TN-AS-S2	5MP Lite IR Fixed-focal Eyeball Network Camera, NTSC	
	PFA130-E	Junction Box	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
Accessories (optional)	PFM321D	DC12V1A Power Adapter	
,	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



PFB203W Wall Mount



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

Junction Mount	Wall Mount	Pole Mount
PFA130-E	PFB203W	PFA152-E+PFB203W

Dimensions (mm[inch])



