

# DH-IPC-HDW2531EM-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 DNR, 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 camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying to the standards of IP67.

## 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.

#### IVS

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

#### 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% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Tochnical	Specification						2592×1944(2592×1944); 2688×1520(2688×1520);
Technical Specification				Resolution	2392×1344(2392×1344), 2068×132U(2068×132U), 3M(2048×1536); 2304×1296(2304×1296); 1080p(1920×1080); 1.3M (1280 × 960); 720p(1280×720); D1(704× 576/704×480); VGA(640×480); CIF(352×288/352×240)		
Camera Image Sensor		1/2.7" 5Megapixel progressive CMOS				Resolution	
Max. Resolution		2592 (H) × 1944 (V)				Bit Rate Control	CBR/VBR
ROM						Video Bit Rate	H.264: 32 kbps–8192 kbps
RAM						Day/Night	H.265: 12 kbps–8192 kbps
Scanning Syst	em	Progressive					Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				BLC HLC	Yes
S/N Ratio		0.008 Lux @ F1.6				WDR	120 dB
Min. Illuminat	ion	> 56 dB					Auto/natural/street lamp/outdoor/manual/regional
Illumination D	istance	30 m (98.43	ft)			White Balance	custom
						Gain Control	Auto/Manual
Illuminator Or		Auto/Manua	21			Noise Reduction	3D DNR
Illuminator Number		2 (IR LED)	•			Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rota	tion Range	Tilt: 0°–78° Rotation: 0°-				Region of Interest(RoI)	Yes (4 areas)
Long		Notation. 0	300			Smart Illumination	Yes
Lens Type		Fixed-focal				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2592 $\times$ 1944 resolution and lower.)
Mount Type		M12				Mirror	Yes
Focal Length		2.8 mm 3.6 mm				Privacy Masking	4 areas
	, ocur cengui					Audio	
Max. Aperture	2	F1.6 F1.6				Built-in MIC	Yes
Field of View			rizontal 103° × rizontal 84° × \		Diagonal 132° Diagonal 110°	Audio Compression	G.711A; G.711Mu; G.726; AAC
Iris Type		Fixed				Alarm	
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (3.61 ft)				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio
	Lens	Detect	Observe	Recognize	Identify		detection; voltage detection; security exception
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)	Network	
Distance	3.6 mm	80 m	32.0 m	16.0 m	8.0 m	Network	RJ-45 (10/100 Base-T)
6		(262.47 ft)	(104.99 ft)	(52.49 ft)	(26.25 ft)	SDK and API	Yes
Smart ever		T-1 1				Drotocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS;
General IVS A	nalytics	Tripwire; intrusion				Protocol	QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Video Video Compre	ession	H.265; H.264; H.264B; MJPEG (only supported				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
·		by the sub stream) Smart H.265+/ Smart H.264+				User/Host	20
Smart Codec		Main stream:				Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Frame Rate		2592 × 1944 (1 fps–20 fps) 2688 × 1520 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps)				Browser	IE Chrome Firefox
		704 × 480 (1 fps–30 fps)				Management Software	Smart PSS; DSS; DMSS
Stream Capability		2 streams				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 Grade	IP67

## Structure

Casing	Metal
Dimensions	93.6 mm × Φ106 mm (3.7" × Φ4.2")
Net Weight	530 g (1.1 lb)
Gross Weight	800 g (1.7 lb)

Ordering Information				
Туре	Part Number	Description		
5MP Camera	DH-IPC- HDW2531EM- AS-S2	SMP Lite IR Fixed-focal Eyeball Network Camera, PAL		
	PFA130-E	Junction Box		
	PFB204W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA106	Mount Adapter		
Accessories (optional)	PFB220C	Cell 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		

## **Accessories**

# **Optional:**







PFA152-E Pole Mount



PFA106 Mount Adapter



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



PFB220C Cell Mount



PFM900-E Integrated Mount



DC12V1A Power Adapter



PFM114  $\mathsf{TLC}\,\mathsf{SD}\,\mathsf{Card}$ 

Celling Mount	Wa <b>ll</b> Mount	Ce <b>ili</b> ng Mount
Pole Mount(Vertical)		1

# Dimensions (mm[inch])





