

# DH-IPC-HDW2239T-AS-LED-S2

2MP Lite Full-color Fixed-focal Eyeball 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 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.

#### **Full-color**

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

#### 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.

- 2-MP, 1/2.8" CMOS image sensor, low illuminance, high image definition.
- Outputs max. 2MP (1920 × 1080) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in warm lights, max. illumination 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 disconnection, IP conflict, illegal access, voltage detection.
- · Supports max. 256 GB Micro SD card and built-in Mic.
- 12V DC/PoE power supply.
- · IP67 protection.













# 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 work normally after soaking in 1 m deep water for 30 minutes.

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

Technical Sp	ecificatio	on						1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Camera							Resolution	×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.8" CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) × 1080 (V)					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
ROM		128 MB					Day/Night	Color/B/W
RAM		128 MB	128 MB				BLC	Yes
Scanning System		Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s			WDR	120 dB
Minimum Illumination		0.0017 lux@F1.0 (Color, 30 IRE) 0.0002 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
S/N Ratio		> 56 dB					Gain Control	Auto; Manual
Illumination Dis	tance	30 m (98.4 ft)	(Warm light)				Noise Reduction	3D NR
Illuminator On/0	Off Control	Auto; Manual					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Num		Auto; Manual 2 (Warm light)					Region of Interest(RoI)	Yes (4 areas)
mammator Han	1501	Pan: 0°–360°	-,				Smart Illumination	Yes
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Lens							Mirror	Yes
Lens Type	Lens Type		Fixed-focal				Privacy Masking	4 areas
Mount Type		M12					Audio	
Focal Length		2.8 mm; 3.6 mm					Built-in MIC	Yes
Max. Aperture		F1.0					Audio Compression	G.711A; G.711Mu; G.726
Field of View		2.8 mm: H: 107°; V: 55°; D: 127° 3.6 mm: H: 91°; V: 47°; D: 109°					Alarm	
Iris Type  Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.3 m (4.3 ft)					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception
	Lens	Detect	Observe	Recognize	Identify		Network	
DORI Distance	2.8 mm	46.5 m (152.26 ft)	18.6 m (61.02 ft)	9.3 m (30.51 ft)	4.6 m (15.09 ft)		Network	RJ-45 (10/100 Base-T)
	3.6 mm	53.7 m (176.18 ft)	21.5 m (70.54 ft)	10.7 m (35.10 ft)	5.4 m (17.72 ft)		SDK and API	Yes
Smart event		Tripwire; intrusion					Cyber Security	Video encryption; firmware encryption; configuration 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
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; 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; Milestone; Genetec
Video Frame Rate		Main stream:  1920 × 1080 (1 fps-25/30 fps)  Sub stream:  704 × 576 (1 fps-25 fps)  704 × 480 (1 fps-30 fps)  *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					User/Host	20 (Total bandwidth: 72 M.)
							Storage	FTP; Micro SD card (support max. 256 G); NAS; SFTP
							Browser	IE; Chrome; Firefox
							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
Certifications	2014/30/EU
	FCC: 47 CFR FCC Part 15, Subpart B

## Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 7.1 W

# Environment

Operating Conditions	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/less than \leq 95\% RH$
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection Grade	IP67

## Structure

Casing	Ilnner core: metal; cover: plastic ( pedestal: plastic )
Dimensions	100.9 mm × Ф109.9 mm (4.0" × Ф4.3")
Net Weight	0.365 kg (0.8 lb)
Gross Weight	0.527 kg (1.2 lb)

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-IPC-HDW2239TP-AS- LED-S2	2MP Lite Full-color Fixed-focal Eyeball Network Camera,PAL		
	DH-IPC-HDW2239TN-AS- LED-S2	2MP Lite Full-color Fixed-focal Eyeball Network Camera,NTSC		
	PFA130-E	Water-proof Junction Box		
	PFB203W	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories (Optional)	PFM321D	12V DC 1A Power Adapter		
(Орстопат)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

## Accessories

# Optional:



PFA130-E Water-proof Junction Box



PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12V DC 1A Power Adapter



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



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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

# Dimensions (mm[inch])



