

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

## 2MP Lite Full-color Fixed-focal Eyeball Network Camera



MP, 1/2.8" CMOS image sensor, low illuminance, high image definition outputs max. 2MP (1920 × 1080) @25/30 fps  
 .265 codec, high compression rate, ultra-low bit rate  
 ilt-in warm lights, max. illumination distance: 30 m  
 OI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments  
 otation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes  
 itelligent detection: Intrusion, tripwire  
 bnormality detection: Motion detection, video tampering, scene ranging, no SD card, SD card full, SD card error, network sconnection, IP conflict, illegal access, voltage detection  
 upports max. 256 GB Micro SD card and built-in Mic  
 2V DC/PoE power supply  
 '67 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.

#### 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.

#### 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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

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

**Technical Specification**

<b>Camera</b>					
Image Sensor	1/2.8" 2Megapixel progressive CMOS				
Max. Resolution	1920 (H) × 1080 (V)				
ROM	128 MB				
RAM	128 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s				
Minimum Illumination	0.0017 Lux@F1.0				
S/N Ratio	> 56 dB				
Illumination Distance	30 m (98.4 ft)				
Illuminator On/Off Control	Auto/Manual				
Illuminator Number	2 (Warm light)				
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
<b>Lens</b>					
Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.8 mm 3.6 mm				
Max. Aperture	2.8 mm: F1.0 3.6 mm: F1.0				
Field of View	2.8 mm: Horizontal 107° × Vertical 55° × Diagonal 127° 3.6 mm: Horizontal 91° × Vertical 47° × Diagonal 109°				
Iris Type	Fixed				
Close Focus Distance	2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.3 m (4.3 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	38.6m (126.6 ft)	15.4m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6mm	49.7m (163.1 ft)	65.3m (214.1 ft)	32.5m (106.6 ft)	18.0m (59.1 ft)
<b>Smart event</b>					
IVS	Tripwire; intrusion				
<b>Video</b>					
Video Compression	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: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				
Stream Capability	2 streams				
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				

Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(Rol)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
<b>Audio</b>	
Built-in MIC	Yes
Audio Compression	G.711A; G.711Mu; G.726
<b>Alarm</b>	
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
<b>Network</b>	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
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
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User/Host	20 (Total bandwidth: 72 M.)
Storage	Dahua Cloud; FTP; Micro SD card (support max. 256 G); NAS; SFTP
Browser	IE Chrome Firefox
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
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Power

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

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

Structure

Casing	Inner core: metal; cover: plastic ( pedestal: plastic )
Dimensions	100.9 mm × Ø109.9 mm (4.0" × Ø4.3")
Net Weight	0.365 kg (0.8 lb)
Gross Weight	0.527 kg (1.2 lb)

Ordering Information

Type	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
Accessories (optional)	PFA130-E	Junction Box
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
	PFM321D	12V DC 1A 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 12V DC 1A Power Adapter



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card

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

Dimensions (mm[inch])

