# IPC-HDW1249T-S-IL

# 2MP Entry Smart Dual Light Fixed-focal Eyeball Network Camera



#### **Series Overview**

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

#### **Functions**

# **Smart Dual Light**

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### **SMD Plus**

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

### 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light/IR LED, the max. illumination distance is 30 m and the max. warm light distance is 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.
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Supports human detection and vehicle detection.











#### **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.

#### **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 Specification				Danalution	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	Auto (ICR)/Color/B/W
RAM	RAM		128 MB				BLC	Yes
Scanning Sys	stem	Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					WDR	120 dB
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (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	Distance	up to 30 m (9	98.43 ft) (IR); u	p to 30 m (98.4	3 ft) (Warm		Noise Reduction	3D NR
Illullillation	Distance	light)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator C	Illuminator On/Off Control		Auto; Manual				Region of Interest (RoI)	Yes (4 areas)
Illuminator N	Illuminator Number		1 (IR LED); 1 (Warm light) Pan: 0°-360°				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
Pan/Tilt/Rot	ation Range	Tilt: 0°-78° Rotation: 0°-360°				Mirror	Yes	
Lens						Privacy Masking	4 areas	
Lens Type		Fixed-focal				Audio		
Lens Mount		M12					Built-in MIC	Yes
Focal Length	1	2.8 mm; 3.6 mm				Audio Compression	G.711a; G.711Mu; PCM; G.726	
Max. Apertu	Max. Aperture		F1.6				Alarm	
Field of View		2.8 mm: H: 107°; V: 56°; D: 127° 3.6 mm: H: 88°; V: 44°; D: 105°					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video atmorphing; SMD(human); voltage
Iris Control		Fixed					detection; security exception	
Close Focus I	Distance	2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)				Network		
	Lens	Detect	Observe	Recognize	Identify		Network Port	RJ-45 (10/100 Base-T)
DORI Distance	2.8 mm	43.9 m (144.03 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)		SDK and API	Yes
Distance	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.35 ft)		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMF SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
Intelligence							Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					User/Host	6 (Total bandwidth: 36 M)
Video		videos					Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
		H.264H; H.265; H.264; H.264B; MJPEG (Only supported					Browser	IE; Chrome; Firefox
Video Compression		by the sub stream)					Management Software	DSS;DMSS
Smart Codec		Smart H.265+; Smart H.264+					Mobile Client	iOS;Android
Video Frame Rate		Main stream: $1920 \times 1080@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification	
Stream Capability		2 streams						

#### Certification

	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive		
Certifications	2014/30/EU;		
	FCC: 47 CFR FCC Part 15, Subpart B;		
	III /CIII · III 62368-1 & CΔN/CSΔ C22 2 No. 62368-1-14		

#### Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 1.6 W (12 VDC); 1.9 W (PoE) Max. (H.265 + intelligence + WDR + warm light): 3.8 W (12 VDC); 4.4 W (PoE)		

# Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67		

#### Structure

Casing Material	Inner core: Metal ; Cover: Plastic		
Product Dimensions	102.6 mm × Φ109.9 mm (4.04" × Φ4.33")		
Net Weight	0.37 kg (0.82 lb)		
Gross Weight	0.51 kg (1.12 lb)		

Ordering Information				
Туре	Model	Description		
2MP camera	IPC-HDW1249T-S-IL	2MP Entry Smart Dual Light Fixed- focal Eyeball Network Camera		
	PFA13G	Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
Accessories	PFA109	Mount Adapter		
(Optional)	PFB220C	Ceiling Mount Bracket		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

# Accessories

# Optional:



PFA13G Junction Box



PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount



TF-P100 MicroSD Memory Card

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		

# Dimensions (mm[inch])

