

DH-IPC-HDBW2249E-S-IL

2MP Smart Dual Light Fixed-focal Dome WizSense Network Camera





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

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.

- 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 IR LED and warm light , the max. IR 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.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- · IP67, IK10 protection.
- · SMD Plus.













Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

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.

Technical Specification							Video	
Camera					Video Compression	$\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$ (Only supported by the sub stream)		
Image Sensor		1/2.8" CMOS				Smart Codec	Smart H.265+; Smart H.264+	
Max. Resolution		1920 (H) × 1080 (V)						Main stream: 1920 × 1080@(1–25/30 fps)
ROM		128 MB					Video Frame Rate	Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be
RAM		128 MB						
Scanning System		Progressive						subjected to the total encoding capacity.
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Streaming Capability	2 streams
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE); 0.0002 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
S/N Ratio		> 56 dB					Bit Rate Control	VBR;CBR
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)					Video Bit Rate	H.264: 32 kbps-6144 kbps; H.265: 12 kbps-6144 kbps
Illuminator On/Off Control		Auto;Manual					Day/Night	Auto(ICR)/Color/B/W
Illuminator Number		3 (IR LED); 4 (Warm light)					BLC	Yes
		Pan: 0°–355°;					HLC	Yes
Angle Adjustment		Tilt: 0°–65°; Rotation: 0°–355°					WDR	120 dB
Lens							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Fixed-focal					Gain Control	Auto/Manual
Lens Mount		M12					Noise Reduction	3D NR
Focal Length		2.8 mm; 3.6 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Max. Aperture		F1.6					Region of Interest (RoI)	Yes (4 areas)
Field of View		2.8 mm: H: 105°; V: 56°; D: 126° 3.6 mm: H: 87°; V: 44°; D: 105°					Smart Illumination	Yes
Iris Control		Fixed					Smart Dual Light	Yes
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.3 m (4.27 ft)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower)
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes
	2.8 mm	43.9 m	17.5 m	8.8 m	4.4 m		Privacy Masking	4 areas
	2.0 11111	(144.03 ft)	(57.41 ft)	(28.87 ft)	(14.44 ft)		Audio	
DORI	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)		Built-in MIC	Yes, built-in Mic
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system						Audio Compression	G.711a; G.711Mu; PCM; G.726
	,	for defining th			-		Alarm	
Intelligen	The numbers distances. For and commissi	in this table do r intelligent fur ioning manual,	o not reflect in	ntelligent fund es, refer to ins	ction		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
Intelligence							Network	
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					Network Port	RJ-45 (10/100 Base-T)
		human)					SDK and API	Yes
SMD Smart Search		SMD Plus Work together with Smart NVR to perform refine intelligent search, event extraction and merging to					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
		event videos					Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI

User/Host	6 (Total bandwidth: 36 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)				
Browser	IE; Chrome; Firefox				
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care				
Mobile Client	iOS;Android				
Security	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				
Certification					
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 2.1 W (12 VDC), 2.6 W (PoE); Max.: 6.2 W (12 VDC), 7.5 W (PoE) (H.265 + intelligence on+ WDR + illuminator intensity)				
Environment					
Operating Temperature	-40 °C to +60 °C(-40 °F to +140 °F)				
Operating Humidity	≤95%(RH), non-condensing				
Storage Temperature	-40 °C to +60 °C(-40 °F to +140 °F)				
Storage Humidity	≤95%(RH), non-condensing				
Protection	IP67; IK10				
Structure					
Casing Material	Metal				
Product Dimensions	81.0 mm × Φ109.9 mm (3.19" × Φ4.33")				
Net Weight	0.35 kg (0.77 lb)				

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HDBW2249E-S-IL	2MP Smart Dual Light Fixed-focal Dome WizSense Network Camera					
	DH-PFA109	Mount Adapter					
	DH-PFB220C	Ceiling Mount Bracket					
	DH-PFB305W	Wall Mount Bracket					
	DH-PFA151	Corner Mount Bracket					
Accessories (Optional)	DH-PFA150	Pole Mount Bracket					
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket					
	DH-PFB203W	Wall Mount Bracket					
	DH-PFA136	Junction Box					
	DH-PFM321-EN	DC12V1A power adapter					
	DH-PFM320D-EN	DC12V2A power adapter					

0.50 kg (1.10 lb)

Gross Weight

Туре	Model	Description
	PFM900-E	Integrated Mount Tester
	DHI-TF-W100-256GB	MicroSD Card
	DHI-TF-P100/256GB	MicroSD Card

Accessories

Optional:



DH-PFA109 Mount Adapter



DH-PFA136 Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFB203W Wall Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DHI-TF-P100/256GB MicroSD Card

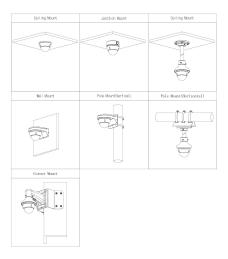


DHI-TF-W100-256GB MicroSD Card



PFM900-E Integrated Mount Tester





Dimensions (mm[inch])

mm [inch]

