



DH-IPC-HDW2649T-ZS-IL

6MP Smart Dual Light Vari-focal Eyeball 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.

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.

- 6-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6MP (3288 × 1850)@20 fps, and supports 2688×1520 (2688 × 1520)@25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 40 m and the max. warm light distance is 40 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 function 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.
- IP67 protection.
- · SMD Plus













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.

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							Video	
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by sub stream)
Image Sensor		1/2.7" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		3288 (H) × 1850 (V)					, Main stream: 3288 × 1850@(1–20 fps)/2688 ×	
ROM		128 MB					Video Frame Rate	1520@(1-25/30 fps) sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps) *The values above are the max, frame rates of
RAM		256 MB						
Scanning System		Progressive						each stream; for multiple streams, the values will be
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						subjected to the total encoding capacity.
Min. Illumination		0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Streaming Capability Resolution	2 streams 6M (3288 × 1850/3200 × 1800); 5M (2880 × 1620); 4M (2688 × 1520); 3M (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)
S/N Ratio		>56 dB						
Illumination Distance		Up to 40 m (131.23 ft) (IR) Up to 40 m (131.23 ft) (Warm light)					Bit Rate Control	VBR;CBR
Illuminator On/Off Control		Auto;Manual					Video Bit Rate	H.264: 32 kbps–8192 kbps; H.265: 12 kbps–8192 kbps
Illuminator Number		2 (Multi-core (IR + warm) light)					Day/Night	Auto(ICR)/Color/B/W
Angle Adjustment		Pan: 0°-360°; Tilt: 0°-78°; Rotation: 0°-360°					BLC	Yes
							HLC	Yes
Lens							WDR	120 dB
Lens Type		Motorized vari-focal					White Balance	Auto; natural; street lamp; outdoor; manual; regional
Lens Mount		ф14					Cain Cantual	custom
Focal Length		2.7 mm-13.5 mm					Gain Control	Auto/Manual
Max. Aperture		F1.5					Noise Reduction Motion Detection	3D NR OFF/ON (4 areas, rectangular)
Field of View		H: 114°-32°; V: 58°-17°; D: 138°-36° Fixed					Region of Interest (RoI)	Yes (4 areas)
Iris Control							Smart Illumination	Yes
Close Focus Distance		0.8 m (2.62 ft)					Smart Dual Light	Yes
	Lens	Detect 64.0 m	Observe 25.6 m	Recognize	Identify 6.4 m		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520
	VV	(209.97 ft)	(83.99 ft)	(41.99 ft)	(20.99 ft)		mage notation	resolution and lower)
DORI	Т	210.0 m (688.98 ft)	84.0 m (275.59 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)		Mirror	Yes
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Privacy Masking	4 areas
							Audio	
							Built-in MIC	Yes, built-in Mic
							Audio Compression	G.711a; G.711Mu; G.726; PCM;
Intelligence							Alarm	
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)					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; defocus detection; SMD; security exception
SMD		SMD Plus					Network	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to					Network Port	RJ-45 (10/100 Base-T)
		event videos				Network 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; Boujour; P2P	

Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI				
User/Host	20 (Total bandwidth: 48 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS				
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;Session security;Security warning				
Certification					
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU				
Power					
Power Supply	12 VDC/PoE				
Power Consumption	Basic: 2.7 W (12 VDC); 3.3 W (PoE); Max.: 8.4 W (12 VDC); 10.1 W (PoE) (H.265 + intelligence on+ WDR + warm light intensity)				
Environment					
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)				
Operating Humidity	≤95% (RH), non-condensing				
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)				
Storage Humidity	≤95% (RH), non-condensing				
Protection	IP67				
Structure					
Casing Material	Metal				
Product Dimensions	108.3 mm × Φ122.0 mm (4.26" × Φ4.80")				
Net Weight	0.69 kg (1.52 lb)				
Gross Weight	0.86 kg (1.90 lb)				

Ordering Information								
Туре	Model	Description						
IP CAMERA	DH-IPC-HDW2649T-ZS-IL	6MP Smart Dual Light Vari-focal Eyeball WizSense Network Camera						
	DH-PFA117	Ceiling Mount Bracket						
	DH-PFB220C	Ceiling Mount Bracket						
	DH-PFA106	Mount Adapter						
	DH-PFA151	Corner Mount Bracket						
	DH-PFB305W	Wall Mount Bracket						
	DH-PFA150	Pole Mount Bracket						
Accessories (Optional)	DH-PFB203W	Wall Mount Bracket						
recessories (optional)	DH-PFA152-E	Pole Mount Bracket						
	DH-PFA137	Junction Box						
	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	PFM900-E	Integrated Mount Tester						
	DHI-TF-W100-256GB	MicroSD Card						
	DHI-TF-P100/256GB	MicroSD Card						

Accessories

Optional:



DH-PFA106 Mount Adapter



DH-PFA117 Ceiling Mount Bracket



DH-PFA137 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



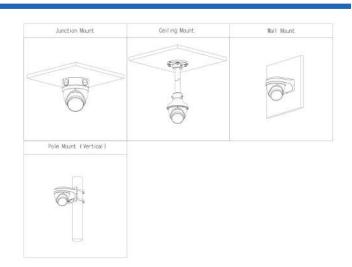
DHI-TF-P100/256GB MicroSD Card



DHI-TF-W100-256GB MicroSD Card



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

mm [inch]

