

# DH-IPC-HFW2649TL-S-T-PV

6MP Smart Dual Light Fixed-focal Bullet WizSense Network Camera



Wiz Sense

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**

#### **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 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.

## Two-way Talk

With its built-in high-sensitivity microphone and high-power speaker, the camera realizes two-way talk through the mobile app.

- 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (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 warm light and IR LED, the max. IR 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; built-in speaker; support two-way talk.
- · 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · SMD Plus.













### **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.

#### 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					1520@(1-25/30 fps) sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30	
RAM		256 MB					Video Frame Rate	fps) *The values above are the max. frame rates of
Scanning System		Progressive						each stream; for multiple streams, the values will be
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Change Canability	subjected to the total encoding capacity.  2 streams
Min. Illumination		0.007 lux@F1.6 (Color, 30 IRE) 0.0007 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Streaming Capability  Resolution	6M (3288 × 1850/3200 × 1800); 5M (2880 × 1620); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720);
S/N Ratio		>56 dB						D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illumination Distance		Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 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		1 (IR LED); 1 (Warm light)					Day/Night	Auto(ICR)/Color/B/W
Angle Adjustment		Pan: 0°-360° Tilt: 0°-90°					BLC	Yes
		Rotation: 0°–360°					HLC	Yes
Lens		5. 16 1					WDR	120 dB
Lens Type  Lens Mount		Fixed-focal M12					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Focal Length		3.6 mm; 2.8 mm					Gain Control	Auto/Manual
Max. Aperture		F1.6					Noise Reduction	3D NR
		2.8 mm: H: 112°; V: 61°; D: 132°					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View		3.6 mm: H: 91°; V: 46°; D: 110°					Region of Interest (RoI)	Yes (4 areas)
Iris Control		Fixed					Smart Illumination	Yes
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.7 m (5.58 ft)					Smart Dual Light	Yes
	Lens	Detect	Observe	Recognize	Identify		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
	2.8 mm	61.2 m ( 200.79 ft)	24.5 m ( 80.38 ft)	12.2 m ( 40.03 ft)	6.1 m ( 20.01 ft)		Mirror	Yes
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Privacy Masking	4 areas
DORI Distance		(280.18 ft) (112.20 ft) (56.10 ft) (27.89 ft)					Audio	
Biotanice	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the						Built-in MIC	Yes, built-in Mic
		nguish persons					Built-in Speaker	Yes, built-in speaker
	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation						Audio Compression	G.711a; G.711Mu; PCM; G.726
and commissioning manual/project design tool.						Alarm		
Intelligence  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; SMD; security exception
SMD		SMD Plus					Network	
		Work together with Smart NVR to perform refine					Network Port	RJ-45 (10/100 Base-T)
Smart Search		intelligent search, event extraction and merging to event videos					SDK and API	Yes

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; P2P; Bonjour; Auto Registration				
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				
Certification					
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU				
Power					
Power Supply	12 VDC; PoE				
Power Consumption	Basic: 2.5 W (12 VDC); 3.4 W (PoE); Max.: 6.7 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				
Structure					
Casing Material	Metal				
Product Dimensions	198.9 mm × 80.2 mm × 76.2 mm (7.83" × 3.16" × 3.00") (L × W × H)				
Net Weight	0.54 kg (1.19 lb)				

Ordering Information							
Туре	Model	Description					
IP CAMERA	DH-IPC-HFW2649TL-S-T-PV	6MP Smart Dual Light Fixed-focal Bullet WizSense Network Camera					
	DH-PFA151	Corner Mount Bracket					
Accessories (Optional)	G3416GW	G3/4" Water Joint					
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box					
	DH-PFA157	Pole Mount Bracket					

0.68 kg (1.50 lb)

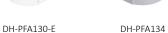
Gross Weight

Туре	Model	Description
	DH-PFA134	Junction Box
	DH-PFM321-EN	DC12V1A power adapter
Accessories (Optional)	DH-PFM320D-EN	DC12V2A power adapter
Accessories (Optional)	PFM900-E	Integrated Mount Tester
	DHI-TF-W100-256GB	MicroSD Card
	DHI-TF-P100/256GB	MicroSD Card

## Accessories

#### Optional:







Junction Box



DH-PFA151 Corner Mount Bracket



Water-proof Junction Box

DH-PFA157 Pole Mount Bracket



DH-PFM320D-EN DC12V2A power adapter DC12V1A power adapter



DH-PFM321-EN



DHI-TF-P100/256GB MicroSD Card



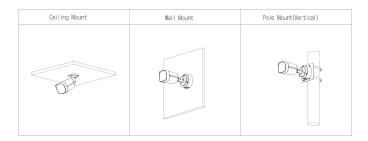
DHI-TF-W100-256GB MicroSD Card



G3416GW G3/4" Water Joint



PFM900-E Integrated Mount Tester



# Dimensions (mm[inch])

mm [inch]

