

# DH-IPC-HDW2841T-S

8MP IR Fixed-focal Eyeball WizSense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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

#### **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.

#### **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) are largely reduced.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 × 1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination 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.
- IP67 protection.
- SMD Plus.



#### 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.

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

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Technical Specification						Stream Capal	bility	2 streams	
Camera								3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);	
Image Sensor		1/2.7" CMOS				Resolution		3072 ×1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×	
Max. Resolution		3840 (H) × 2160 (V)						1296 (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)	
ROM		128 MB				Bit Rate Cont	rol	CBR/VBR	
RAM		256 MB				Bit Rate Cont	101	H.264: 32 kbps-8192 kbps	
Scanning System		Progressive				Video Bit Rat	e	H.265: 12 kbps–8192 kbps	
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s		Day/Night		Auto(ICR)/Color/B/W	
Min Illumination		0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE)				BLC		Yes	
Min. Illumination		0 lux (Illumina		(E)		HLC		Yes	
S/N Ratio		>56 dB				WDR		120 dB	
Illumination Distance		30 m (98.43 f	t) (IR)			White Balanc	White Balance Auto; natural; street lamp; outdoor; manual; regional custom		
Illuminator On/Off Control		Auto;Manual				Gain Control		Auto; Manual	
Illuminator N	lumber	1 (IR LED)				Noise Reduct	tion	3D NR	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				Motion Deter	ction	OFF/ON (4 areas, rectangular)	
Long		Rotation: 0°-	360°			Region of Inte	erest (Rol)	Yes (4 areas)	
Lens		Fixed-focal				Smart Illumin	nation	Yes	
Lens Type Lens Mount		M12				Image Rotatio	on	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
Focal Length		2.8 mm; 3.6 r	nm			Mirror		Yes	
Max. Apertu		F2.0				Privacy Mask	cy Masking 4 areas		
		2.8 mm: H: 106°; V: 56°; D: 125°				Audio	Audio		
Field of View	/	3.6 mm: H: 88°; V: 46°; D: 104°				Built-in MIC		Yes	
Iris Control		Fixed				Audio Compr	Audio Compression G.711a; G.711Mu; PCM; G.726		
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)				Alarm	Alarm		
	Lens	Detect	Observe	Recognize	Identify			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	
DORI Distance	2.8 mm	88.0 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	Alarm Event			
	3.6 mm	106.7 m (350.07 ft)	42.7 m (140.09 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)	Network			
Intelligen	ce					Network Port	t	RJ-45 (10/100 Base-T)	
IVS (Perimeter Protection)		classification	owire (the two f and accurate d			SDK and API		Yes	
Smart Search		-	er with Smart N arch, event extr			Network Prot	tocol	ol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour	
Video						Interoperabil	lity	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone	
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				User/Host	User/Host 20 (Total bandwidth: 48 M)		
Smart Codec		Smart H.265+; Smart H.264+				Storage		FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
Video Frame Rate		Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30				Browser		IE Chrome Firefox	
			bove are the m			Management	t Software	Smart PSS; DSS; DMSS	
			ultiple streams ncoding capacit		ll be subjected	Mobile Client	t	iOS; Android	

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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; firmware encryption; generation and importing of X.509 certification					
Certification						
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14					
Power						
Power Supply	12 VDC/PoE (802.3af)					
Power Consumption	Basic: 2.7 W (12 VDC); 3.4 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 4.5 W (12 VDC); 5.4 W (PoE)					
Environment						
Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)					
Operating Humidity	≤95%					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)					
Storage Humidity	≤95%					
Protection	IP67					
Structure						
Casing Material	Inner core: Metal Cover: Plastic					
Product Dimensions	100.9 mm × Φ109.9 mm (3.97"× Φ4.33")					
Net Weight	0.37 kg (0.82 lb)					
Gross Weight	0.56 kg (1.23 lb)					

### **Ordering Information**

Туре	Model	Description
8MP Camera	DH-IPC-HDW2841T-S	8MP IR Fixed-focal Eyeball WizSense 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

Junction Box

PFA109 Mount Adapter

#### Optional:



PFB205W-E

Wall Mount

Bracket

PFB220C

Ceiling Mount

Bracket

**256**GR ⊌ 42 ₩22 ¥30 ₩22 ¥30



PFA152-E Pole Mount Bracket



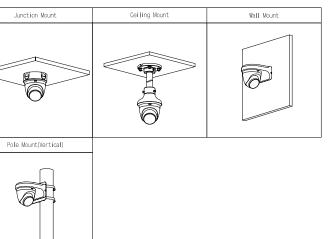
PFM321D 12 VDC 1A Power Adapter



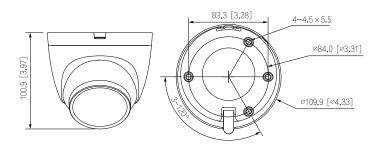
PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory

Card



#### Dimensions (mm[inch])



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