

# DH-IPC-HFW3449T1-AS-PV

4MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet 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 3 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

#### Siren And Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

#### **Smart Dual Illuminators**

Dahua Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm 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 warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### SMD 4.0

Dahua Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches. \* The parameters and datasheets below can only be applied to 3449-PV-S4 series.

- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (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 illumination distance is 30 m and warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, AI 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, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (red and blue lights).
- SMD 4.0.
- One-click arming/disarming through alarm input.



#### One-tap Disarming

Dahua One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

#### **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  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification								Main stream: 2688 × 1520@(1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps) Third stream:1920 × 1080@(1 fps–30 fps)
Camera							Video Frame Rate	
Image Sensor		1/2.7" CMOS						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity
Max. Resolution		2688 (H) × 1520 (V)					Stream Capability	3 streams
ROM		128 MB						4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296/2048
RAM		512 MB					Resolution	× 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 ×
Scanning System		Progressive					Dit Data Cantual	480); CIF (352 × 288/352 × 240)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Bit Rate Control	CBR/VBR
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Video Bit Rate	H.264: 32kbps-8192 kbps H.265: 12kbps-8192 kbps
S/N Ratio		> 56 dB					Day/Night	Auto (ICR)/Color/B/W
	S/N Ratio		+) (IR)				BLC	Yes
Illumination	Distance	30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)					HLC	Yes
Illuminator On/Off Control		Auto/Manual					WDR	120 dB
Illuminator N	Illuminator Number		)				Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		2 (warm light) Pan: 0°–360° Tilt: 0°–90°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
i any meriotation hange		Rotation: 0°–360°					Gain Control	Auto; manual
Lens							Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas)
Mount Type		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 mm					Smart Illumination	Yes
Field of View		2.8 mm: H: 101°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 44°; D: 96°					Defog	Yes
Iris Type		Fixed					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 $\times$ 1520 resolution and lower)
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)					Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	8 areas
DORI Distance	2.8 mm	66.0 m (216.54 ft)	26.4 m ( 86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Audio	
Distance	3.6 mm	78.0 m	31.2 m	15.6 m	7.8 m		Built-in MIC	Yes
		(255.91 ft)	( 102.36 ft)	(51.18 ft)	(25.59 ft)	(25.59 ft)	Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Intelligence							Alarm	
IVS (Perimeter Protection)		Tripwire; intrusion (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; scene changing; audio detection; voltage detection; external alarm; SMD; security exception
SMD 4.0		Less false alarm, longer detection distance Work together with Smart NVR to perform refine						
Smart Search		intelligent search, event extraction and merging to event videos					Network	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Network	RJ-45 (10/100 Base-T)
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					SDK and API	Yes Video encryption; firmware encryption; configuration
Video							Cyber Security	encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					cyber security	certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Smart Codec		Smart H.265+; Smart H.264+					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Al Coding		AI H.265; AI H.264						

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Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P; RTMP				
User/Host	20 (Total bandwidth: 72 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS				
Browser	IE: IE8/9/11 Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	iOS; Android				
Certification					
Certification	CE-LVD: EN 62368-1; 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;				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5mA 3V–5 VDC				
Alarm Output	1 channel out: 300mA 12 VDC				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 3.3 W (12 VDC); 4.4 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 6.8 W (12 VDC); 8.2 W (PoE)				
Environment					
Operating Conditions	–40 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH				
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)				
Protection Grade	IP67				
Structure					
Casing	Metal + plastic				
Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H)				
Net Weight	1.0 kg (2.20 lb)				
Gross Weight	1.23 kg (2.71 lb)				

Ordering Information							
Туре	Model	Description					
4MP	DH-IPC-HFW3449T1-AS-PV	4MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera					
Camera	IPC-HFW3449T1-AS-PV	4MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera					
	PFA135	Junction Box					
	PFA130-E	Water-proof Junction Box					
Accessories	PFA152-E	Pole Mount Bracket					
(Optional)	PFM321D	12 VDC 1A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

#### Accessories

Optional:



PFA135

Junction Box





PFA130-E Water-proof Junction Box

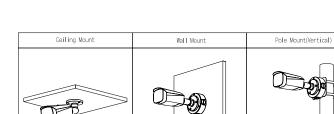
PFA152-E Pole Mount Bracket







TF-P100 MicroSD Memory Card



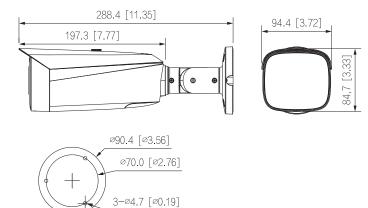
PFM321D 12 VDC 1A Power Adapter

- PFM900-E Integrated Mount Tester

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### Dimensions (mm[inch])



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