

DH-IPC-HFW3549T1-AS-PV

5MP 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 3549-PV-S4 series.
- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps and supports 4MP (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; buit-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: 2880 × 1620/2960 × 1668 @(1 fps–20 fps)/2688 × 1520 @(1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps)	
Camera									
Image Sensor		1/2.7" CMOS					Video Frame Rate	Third stream: 1920 × 1080@(1 fps–30 fps) *The values above are the max. frame rates of each	
Max. Resolution		2960 (H) × 1668 (V)						stream; for multiple streams, the values will be subjected to the total encoding capacity.	
ROM		128 MB					Stream Capability	3 streams	
RAM		512 MB					Resolution	5M (2880 × 1620/2960 × 1668); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296/2048 × 1536); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF (352 × 288/352 × 240)	
Scanning System		Progressive							
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s							
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Bit Rate Control Video Bit Rate	CBR/VBR H.264: 3 kbps–20480 kbps	
S/N Ratio	S/N Ratio		> 56 dB					H.265: 3 kbps–20480 kbps	
Illumination Distance		30 m (98.43 ft) (IR)					Day/Night	Auto (ICR)/Color/B/W	
		30 m (98.43 ft) (warm light) Auto/Manual					BLC	Yes	
	Illuminator On/Off Control						HLC	Yes	
Illuminator N	lumber	2 (IR LED) 2 (warm light)				WDR	120 dB	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					Scene Self-adaptation	Yes	
Long		Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Lens							Gain Control	Auto; manual	
Lens Type		Fixed-focal					Noise Reduction	3D NR	
Mount Type		M12					Motion Detection	OFF/ON (4 areas)	
Focal Length		2.8 mm; 3.6 m		00°			Region of Interest (RoI)	Yes (4 areas)	
Field of View		2.8 mm: H: 97°; V: 70°; D: 128° 3.6 mm: H: 78°; V: 58°; D: 102°					Smart Illumination	Yes	
Iris Type		Fixed					Defog	Yes	
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)	
	Lens	Detect	Observe	Recognize	Identify		Mirror	Yes	
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)		Privacy Masking	8 areas	
	3.6 mm	78.0 m (255.91 ft)	31.2 m (102.36 ft)	15.6 m (51.18 ft	7.8 m (25.59 ft)		Audio		
Intelligen	ce	(,	(,	((,		Built-in MIC	Yes	
-	er Protection)	Tripwire; intrusion (support the classification and					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
		accurate detection of vehicle and human)					Alarm		
SMD 4.0 Smart Search	1	Less false alarm, longer detection distance Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene	
Quick Pick		videos. With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					changing; audio detection; voltage detection; external alarm; SMD; security exception		
AI SSA		Adopt deep learning algorithms to adjust the parameters					Network		
		of the image to suit the conditions.					Network	RJ-45 (10/100 Base-T)	
Video							SDK and API	Yes	
Video Compression Smart Codec		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truster execution; trusted upgrade	
		Smart H.265+; Smart H.264+							
AI Coding		AI H.265; AI H.264						, 10	

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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		
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)		

1.0 kg (2.20 lb)

1.23 kg (2.71 lb)

Net Weight

Gross Weight

Ordering Information					
Туре	Model	Description			
5MP	DH-IPC-HFW3549T1-AS-PV	5MP Smart Dual Illumination Active Deterrence Fixed-focal Bullet WizSense Network Camera			
Camera	IPC-HFW3549T1-AS-PV	5MP 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 Backet			
(Optional)	PFM321D	12 VDC 1A Power Adapter			
	РҒМ900-Е	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:



PFA135 Junction Box



PFA130-E

Water-proof Junction Box

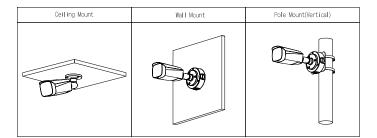


PFA152-E Pole Mount Bracket



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TF-P100 MicroSD Memory Card



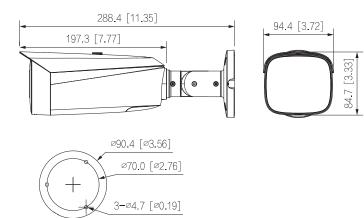
PFM321D 12 VDC 1A Power Adapter

РҒМ900-Е Integrated Mount Tester



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Dimensions (mm[inch])



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