

DH-IPC-HFW3849T1-AS-PV-S3

8MP 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

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.

- 8MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@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 3.0.
- 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 works normal 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: 3840 × 2160@(1 fps-30 fps)
Camera						Video Frame Rate	Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1 fps-30 fps) Third stream: 1020 × 1080@(1 fps - 20 fps)
Image Sensor		1/2.8" CMOS					Third stream:1920 × 1080@(1 fps–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding
Max. Resolution		3840 (H) × 2160 (V)				Character Courte little	capacity
ROM		128 MB				Stream Capability	3 streams
RAM		512 MB				Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive				Resolution	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Bit Rate Control	CBR/VBR
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
S/N Ratio		> 56 dB				Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		30 m (98.43 ft) (IR)				BLC	Yes
		30 m (98.43 ft) (warm light)				HLC	Yes
Illuminator On/Off Control		Auto/Manual 2 (IR LED)				WDR	120 dB
Illuminator Number		2 (warm light)				Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° 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 mm				Region of Interest (RoI)	Yes (4 areas)
Field of View		2.8 mm: Horizontal: 106°× Vertical: 55°× Diagonal: 125°				Smart Illumination	Yes
		3.6 mm: Horizontal: 85°× Vertical: 45°× Diagonal: 100°				Defog	Yes
Iris Type		Fixed 2.8 mm: 2.0 m (6.56 ft)				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Close Focus Distance		3.6 mm: 2.8 m (6.23 ft)				Mirror	Yes
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Privacy Masking	8 areas
	2.8 mm	91.0 m (298.56 ft)	36.4 m (119.42 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)	Alarm	
	3.6 mm	107.6 m (353.02 ft)	43.0 m (141.08 ft)	21.5 m (70.54 ft)	10.8 m (35.43 ft)		No SD card; SD card full; SD card error; network
Professional, intellige		ent				Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
IVS (Perimeter Protection)		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					changing; audio detection; voltage detection; external alarm; SMD; security exception
SMD 3.0		Less false alarm, longer detection distance				Network	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Network	RJ-45 (10/100 Base-T)
						SDK and API	Yes
Video Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported				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; trusted

Video CompressionH.265; H.264; H.264B; MJPEG (only supported
by the sub stream)Smart CodecSmart H.265+; Smart H.264+Al CodingAl H.265; Al H.264

Protocol

Interoperability

certification; syslog; HTTPS; 802.1x; trusted boot; trusted

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

ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone

execution; trusted upgrade

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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	12V DC/PoE (802.3af)					
Power Consumption	Basic: 3.1 W (12 VDC); 4.3 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 8.6 W (12 VDC); 11 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 (11.4" × 3.7" × 3.3") (L × W × H)					
Net Weight	1.0 kg (2.20 lb)					
Gross Weight	1.23 kg (2.71 lb)					

Ordering Information Model Description Туре 8MP Smart Dual Illumination Active DH-IPC-HFW3849T1-AS-Deterrence Fixed-focal Bullet PV-S3 WizSense Network Camera 8MP Camera 8MP Smart Dual Illumination Active IPC-HFW3849T1-AS-PV-S3 Deterrence Fixed-focal Bullet WizSense Network Camera PFA135 Junction Box PFA130-E Junction Box PFA152-E Pole Mount Backet Accessories (Optional) PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester TLC SD Card TF-P100

Accessories

Optional:



PFA135

Junction Box

PFA130-E

Junction Box

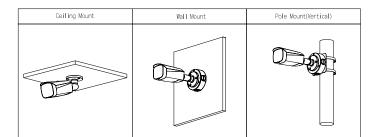


PFA152-E Pole Mount Bracket





TF-P100 TLC SD Card

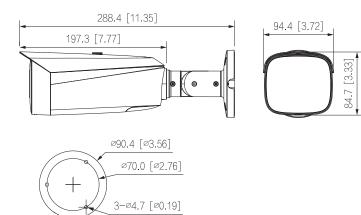




PFM900-E Integrated Mount Tester

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Dimensions (mm[inch])



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