



DH-IPC-HFW3449T1-AS-PV-PRO

4MP WizColor TiOC PRO 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

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its AI Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Acupick, and AI SSA (AI Scene Self-adaptation), making it easy and convenient to use. Starlight technology and its large aperture lens also allow the camera to produce clear, vivid images even in poor lighting conditions.

Functions

WizColor Technology

Dahua WizColor Technology seamlessly combines with the powerful AI-ISP, large pixel size sensor and large aperture in cameras. This unique integration enables cameras to effortlessly capture high-quality images with vibrant colors during nighttime scenarios, ensuring fine details are preserved and minimizing motion blur. Unlike traditional self-illuminating cameras, Dahua WizColor Technology maximizes the utilization of weak light sources, such as moonlight and city lights reflected in the sky, delivering captivating full-color images of the entire scene. It also ensures that monitoring distances are not compromised at night due to limited illumination ranges, facilitating full-color image capture even over long distances.

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.

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.

- 4-MP 1/1.8" 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 multi-core light, the max. IR distance is 50 m and the max. warm light distance is 50 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. 512 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.
- · Supports AI SSA and one-tap arming and disarming.
- · SMD area can be set in warm light areas that support triggering alarms.













AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

Technical	Specificati	on					AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.
Camera						Video	, and the second	
Image Sensor		1/1.8" CMOS					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported
Max. Resolution		2688(H) × 1520 (V)					Smart Codec	by sub stream) Smart H.265+; Smart H.264+
ROM		256 MB						Al H.265 (Compression rate ≥25%)
RAM		1 GB					Al Coding	AI H.264 (Compression rate ≥25%)
Scanning System		Progressive						Main stream: 2688 × 1520@(1 fps-25/30 fps) Sub stream: 1920 × 1080@(1 fps-25/30 fps)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Frame Rate	Third stream: 1920 × 1080@(1 fps-25/30 fps) *The values above are the max. frame rates of each
Min. Illumination		0.0005 Lux@F1.0 (Color, 30IRE) 0.0004 Lux@F1.0 (B/W, 30IRE) 0 lux (Illuminator on)						stream; for multple streams, the values will be subjected to the total encoding capacity.
S/N Ratio		>56 dB					Stream Capability	3 streams
Illumination Distance		Up to 50 m (164.04 ft) (IR) Up to 50 m (164.04 ft) (Warm light)					Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Illuminator On/Off Control		Auto;Manual						
Illuminator Number		4 (Multi-core (IR + warm) light)					Bit Rate Control	VBR; CBR; ABR
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 kbps
Lens							Day/Night	Auto(ICR)/Color/B/W
Lens Type		Fixed-focal					BLC	Yes
Lens Mount		M16					HLC	Yes
Focal Length		2.8 mm;3.6 mm					WDR	120 dB
Max. Apertu	re	F1.0					Scene Self-adaptation (SSA)	Yes
Field of View	,	2.8 mm: H: 111°; V: 60°; D: 135° 3.6 mm: H: 95°; V: 51°; D: 114°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control		Fixed					Gain Control	Auto/Manual
Close Focus I	Distance	2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 3.5 m (11.48 ft)					Noise Reduction	3D NR
	Lens	Detect	Observe	Recognize	Identify		Motion Detection	OFF/ON (4 areas, rectangular)
	2.8 mm	56.6 m (185.70 ft)	22.6 m (74.75 ft)	11.3 m (37.07 ft)	5.7 m (18.70 ft)		Region of Interest (RoI)	Yes (4 areas)
DORI	3.6 mm	69.0 m (226.38 ft)	27.6 m (90.55 ft)	13.8 m (45.28 ft)	6.9 m (22.64 ft)		Smart Illumination	Yes
Distance	*DORI (Detect,	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4)					Smart Dual Light	Yes
	for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and						Defog	Yes
commissioning manu			es. For intelligent function distances, refer to histaliation and nanual/project design tool.				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Intelligence		Intrusion, tripwire (the two functions support the					Mirror	Yes
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					Privacy Masking	8 areas
SMD		SMD 4.0					LDC	Yes
Smart Search		Work together with Smart NVR to perform refine				Audio		
SITIALL SEATON		intelligent search, event extraction and merging to event videos					Built-in MIC	Yes, built-in dual Mic
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and				Built-in Speaker	Yes, built-in speaker	
Acurick		motor vehicles, and search through live and recorded videos to quickly locate targets.					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

Alarm			
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		
Network			
Network Port	RJ-45 (10/100 Base-T)		
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; SNMP; P2P		
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP;SFTP; Micro SD card (support max. 512 GB); NAS		
Browser	IE: IE11 Chrome Firefox		
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		
Mobile Client	iOS;Android		
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 execution;		
Certification			
Certifications	CE-LVD: EN 62368-1; CE-EMC: Electromagnetc Compatbility Directve 2014/30/EU		
Port			
Audio Input	1 channel (RCA port)		
Audio Output	1 channel (RCA port)		
Alarm Input	1 channel in: wet contact, 5 mA 3–5 VDC		
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC		
Power			
Power Supply	12 VDC/PoE+ (802.3at)		
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Power Consumption	Basic: 4.3 W (12 VDC); 6.2 W (PoE) Max. (H.265 + WDR + warm light+siren and light active deterrence + intelligence on): 11.8 W (12 VDC); 15.1 W (PoE)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95% (RH), non-condensing		
Protection	IP67		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	≤95% (RH), non-condensing		

Structure

Casing Material	Metal + plastic		
Product Dimensions	288.4 mm \times 94.4 mm \times 84.7 mm (11.35" \times 3.72" \times 3.33") (L \times W \times H)		
Net Weight	1.0 kg (2.20 lb)		
Gross Weight	1.3 kg (2.87 lb)		

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HFW3449T1-AS- PV-PRO	4MP WizColor TiOC PRO Fixed- focal Bullet WizSense Network Camera		
	PFA135	Junction Box		
	PFA130-E	Water-proof Junction Box		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFM320D-EN	12 VDC 2A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



PFM320D-EN 12 VDC 2A Power Adapter



PFM900-E Integrated Mount Tester

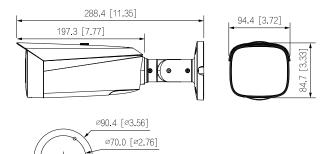


TF-P100 Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
	9	



Dimensions (mm[inch])



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