



DH-IPC-UDW3459TM-S-IL

4MP Smart Dual Light Fixed-focal Eyeball WizSense + Network Camera





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.

System 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

Smart Dual Light

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

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.

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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440 @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light/IR LED, the max. illumination distance is 30 m and the max, warm light 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).
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · SMD Plus.













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.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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	Specification	on					Stream Capability	2 streams
Camera				Resolution	4M (2688 × 1520/2560 × 1440); 3M (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)			
Image Sensor		1/2.9" CMOS						
Max. Resolution		2688 (H) × 1520 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Dit Data	H.264: 32 kbps-6144 kbps
RAM		128 MB					Video Bit Rate	H.265: 12 kbps-6144 kbps
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					BLC	Yes
Min. Illumination		0.006 lux@F1.6 (Color, 30 IRE) 0.0006 lux@F1.6 (B/W, 30 IRE)					HLC WDR	Yes 120 dB
S/N Ratio		0 lux (Illuminator on) >56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional
	Illumination Distance		up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm				Gain Control	custom Auto-Manuel
		light)					Gain Control	Auto; Manual
	On/Off Control	Auto; Manual 1 (IR LED); 1 (Warm light)					Noise Reduction	3D NR
illuminator	Illuminator Number		warm light)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Patrijan: 0°, 360°					Region of Interest (RoI)	Yes (4 areas)
Lens		Rotation: 0°–360°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688 $\times1520$ resolution and lower)
Lens Type		Fixed-focal					Mirror	Yes
Lens Mount		M12					Privacy Masking	4 areas
Focal Length		2.8 mm; 3.6 mm					Audio	
Max. Apertu	re	F1.6					Built-in MIC	Yes
Field of View	Field of View		2.8 mm: H: 95°; V: 52°; D: 114° 3.6 mm: H: 78°; V: 41°; D: 94°				Audio Compression	G.711a; G.711Mu; PCM; G.726
Iris Control		Fixed	, ,				Alarm	
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft)					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security exception; SMD
	Lens	Detect	Observe	Recognize	Identify		Network	detection, security exception, swip
DORI Distance	2.8 mm	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (20.99 ft)		Network Port	RJ-45 (10/100 Base-T)
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)			
Intelligen	ce	(200,10 10)	(112.20 10)	(55.25 10)	(27.03 10)		SDK and API	Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
	Intelligence IVS (Perimeter Protection)		owire (the two i and accurate d				Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
		human) Work together with Smart NVR to perform refine					Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Smart Search	Smart Search				erging to event		User/Host	6 (Total bandwidth: 36 M)
Video				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)			
Video Compression		H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)					Browser	IE Chrome Firefox
Smart Codec		Smart H.265+; Smart H.264+					Management Software	DSS;DMSS
		Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@					Mobile Client	iOS;Android
Video Frame Rate		(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected					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; Generation and importing of

X.509 certification

to the total encoding capacity.

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: 2.1 W (12 VDC); 2.5 W (PoE) Max. (H.265 + intelligence on + WDR + warm light): 4.4 W (12 VDC): 5.2 W (PoF)		

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67		

Structure

Casing Material	Inner core: Metal; Cover: Metal; Decoration ring: Plastic		
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")		
Net Weight	0.46 kg (1.01 lb)		
Gross Weight	0.65 kg (1.43 lb)		

Ordering Information Type Model Description 4MP Smart Dual Light Fixed-DH-IPC-UDW3459TM-S-IL 4MP camera focal Eyeball WizSense + Network Camera PFA130-E Junction Box PFB205W-E Wall Mount Bracket PFA152-E Pole Mount Bracket PFA109 Mount Adapter Accessories (Optional) PFB220C Ceiling Mount Bracket PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

Accessories

Optional:







PFA130-E Junction Box PFB205W-E Wall Mount Bracket PFA152-E Pole Mount Bracket



PFA109 Mount

Adapter

os.

PFB220C Ceiling Mount Bracket



PFM321D 12V DC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

