

DH-IPC-UDW3559TM-S-IL-2,8mm

5MPSmartDualLightFixed-focalEyeballWizSense+Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense + is a series of Al products and solutions that adopt independent Al 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

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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960 × 1668) @25 fps, and supports 2688×1520 (2688 × 1520) @30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and 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).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · 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 ultra-low 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification						Video Frame Rate	Main stream: $2960 \times 1668@(1-25 \text{ fps})/2688 \times 1520@(1-30 \text{ fps})$ sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
C amer a							
Image Sensor		1/2.7" CMOS					
Max. Resolution		2960 (H) × 16	68 (V)				
ROM		128 MB				Stream Capability	2 streams
RAM		256 MB				Resolution	2960 × 1668 (2960 × 1668); 2880 × 1620 (2880 × 1620) 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (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					
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					
Min. Illumination		0.0007 Lux@	1.6(Color,30IR F1.6(B/W,30IR			Bit Rate Control	CBR/VBR H.264: 32 kbps–8192 kbps
S/N Ratio		0 lux (Illuminator on) >56 dB				Video Bit Rate	H.265: 12 kbps–8192 kbps
			8.43 ft) (IR); u	p to 30 m (98.4	3 ft) (Warm	Day/Night	Auto(ICR)/Color/B/W
	Illumination Distance		I			BLC	Yes
	On/Off Control	4 (10 150) 4()				HLC	Yes
Illuminator N	lumber	1 (IR LED); 1(\rightarrow Pan: 0°-360°	Warm light)			WDR	120 dB
Pan/Tilt/Rotation Range		Tilt: 0°–78° 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
Lens Mount		M12				Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.8 mm; 3.6 mm				Region of Interest (RoI)	Yes (4 areas)
Max. Apertu	re	F1.6				Smart Illumination	Yes
Field of View	Field of View		11°; V: 58°; D: 2°; V: 45°; D: 1			Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Iris Control		Fixed				Mirror	Yes
Close Focus	Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)				Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify	Audio	
	2.8 mm	63.6 m	25.4 m	12.7 m (41.67 ft) 17.1 m (56.10 ft)	6.4 m	Built-in MIC	Yes
	2.0 111111	(208.66 ft) 85.4 m	(83.33 ft) 34.2 m		(21.00 ft) 8.5 m	Audio Compression	G.711a; G.711Mu; PCM; G.726
DORI	3.6 mm	(280.18 ft)	(112.20 ft)		(27.89 ft)	Alarm	
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) 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 commissioning manual/					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
project design tool.						Network	
Intelligence Intrusion, tripwire (the two functions support the			ort the	Network Port	RJ-45 (10/100 Base-T)		
IVS (Perimeter Protection)				detection of ve		SDK and API	Yes
Smart Search				NVR to perform raction and me	refine erging to event	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; Boujour
Video Compression						Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
Video Compression		$\mbox{H.265; H.264; H.264H; H.264B; MJPEG}$ (Only supported by the sub stream)				User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+	-; Smart H.264	+		Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS

Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android
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; Firmware encryption; Generation and importing of X.509 certification

Certification

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.2 W (12 VDC); 2.9 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + warm light intensity + IVS); 4.6 W (12 VDC); 5.4 W (PoE)

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)
Storage Humidity	≤95%
Protection	IP67

Str uc ture

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal	
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")	
Net Weight	0.48 kg (1.06 lb)	
Gross Weight	0.62 kg (1.37 lb)	

Ordering Information Model Type Description 5MP Smart Dual Light Fixed-focal 5MP Camera DH-IPC-UDW3559TM-S-IL Eyeball WizSense + Network PFA130-E Camera Water-proof Junction Box PFB205W-E Wall Mount Bracket PFA 1 52- E Pole Mount Bracket PFA 10 9 Mount Adapter Accessories (Optional) Ceiling Mount Bracket PFB220C PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA 1 52- E Pole Mount Bracket



PFA 10 9 Mount Adapter



PFB220C Ceiling Mount Bracket



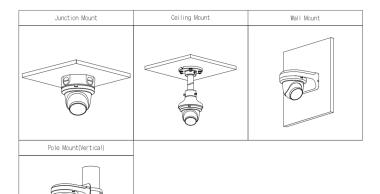
PFM321D 12 VDC 1A Power Adapter



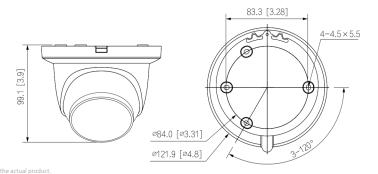
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



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