



DH-IPC-UFW3459S-S-IL

4MP Smart Dual Light Fixed-focal Bullet 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.

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.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- 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 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	on					Stream Capability	2 streams
Camera					4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2304 ×			
Image Sensor		1/2.9" CMOS					Resolution	1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2688 (H) × 1520 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps
RAM		128 MB					Day/Night	Auto (ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Min. Illumination		0.006 lux@F1.6 (Color, 30 IRE) 0.0006 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					WDR	120 dB
S/N Ratio		>56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination	Illumination Distance		up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm light)				Gain Control	Auto;Manual
Illuminator C	n/Off Control	Auto;Manual					Noise Reduction	3D NR
Illuminator Number		1 (IR LED); 1 (Warm light)				Motion Detection	OFF/ON (4 areas, rectangular)
		Pan: 0°-360°					Region of Interest (RoI)	Yes (4 areas)
Pan/Tilt/Rot	ation Range	Tilt: 0°–90° Rotation: 0°–	360°				Smart Illumination	Yes
Lens							Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1560 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	,	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 I	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; SMD;
	Lens	Detect	Observe	Recognize	Identify		Nationali	voltage detection; security exception
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	DI 45 (40/400 D. 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)		Network Port	RJ-45 (10/100 Base-T)
Intelligen	ce c	(======	(===========	(======	(=======		SDK and API	Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					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		intelligent search, event extraction and merging to event videos					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					Browser	IE; Chrome; Firefox
Smart Codec		by the sub stream) Smart H.265+; Smart H.264+					Management Software	DSS; DMSS
Siliai t Couet							Mobile Client	iOS; Android
Video Frame Rate		Main stream: $2688 \times 1520@(1-20 \text{ fps})/2566 \times 1440@(1-25/30 \text{ fps})$ 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.					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

Wiz Sense | DH-IPC-UFW3459S-S-IL

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU:
Certifications	
	FCC: 47 CFR FCC Part 15, Subpart B;
	III /CIII · III 62368-1 & 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 + WDR + warm light): 4.4 W (12 VDC); 5.2 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)		
Protection	IP67		

Structure

Casing Material	Metal
Product Dimensions	166.2 mm × 70 mm × 70 mm (6.54" × 2.76" × 2.76") (L × W × H)
Net Weight	0.48 kg (1.06 lb)
Gross Weight	0.59 kg (1.30 lb)

Ordering Information Model Description Type 4MP 4MP Smart Dual Light Fixed-focal DH-IPC-UFW3459S-S-IL Bullet WizSense + Network Camera camera PFA134 Junction Box PFA130-E IP66 Junction Box PFA152-E Pole Mount Bracket Accessories (Optional) PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

Accessories

Optional:







PFA134 Junction Box

PFA130-E DX IP66 Junction Box

FA130-E PFA152-E unction Box Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





