



DH-IPC-UFW3858T-Z(A)S

8MP IR Vari-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.

System Overview

With advanced deep learning algorithm, Dahua WizSense 2 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

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.

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.

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.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 ×1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 60 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.
- · Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- · SMD Plus.













WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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.

Camera	Technical Specification							Stream Capability	2 streams
Max. Resolution									
Make Resolution Setting Pay State	Image Sensor		1/2.7" CMOS					Resolution	2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×
RAM	Max. Resolution		3840 (H) × 2160 (V)						960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA
Second Projection Project	ROM		128 MB					Bit Rate Control	CBR/VBR
Securing System Progressive Progressiv	RAM		256 MB					Video Bit Rate	·
BLC Yes Yes Mano Marrial 1/3 = 71,00,000 to Marrial 1/3 = 71,000 to Marrial	Scanning System		Progressive						
Min. Illumination Min. Illumination 0.008 luse *1.5 (coto. 30 IRS) 0.008 luse *1.5 (coto. 3	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
S/N Ratio	Min. Illumination		0.0008 lux@F1.5 (B/W, 30 IRE)						
### Blumination Distance Up to 60 m 196.85 ft) (R) White Balance Auto, Manual	S/N Ratio							WDR	120 dB
Noise Reduction Acto, Manual	·							White Balance	, , , , , , , , ,
Pan/Titi/Rotation Range	Illuminator On/Off Control		Auto; Manual					Gain Control	Auto; Manual
Pan/Till/Rotation Range Pan: U"-360' Rotation: 0'-360' Rotation: 0'-360' Rotation: 0'-360' Rotation: 0'-360' Region of Interest (Rol) Yes (4 areas)	Illuminator Number		4 (IR LED)					Noise Reduction	3D NR
Region of Interest (Roi) Yes (4 areas)	Pan/Tilt/Rotation Range							Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount	, ,							Region of Interest (RoI)	Yes (4 areas)
Lens Mount	Lens							Smart Illumination	Yes
Focal Length 2.7 mm-13.5 mm Mirror Yes	Lens Type							Image Rotation	The state of the s
Max. Aperture F1.5 Field of View H: 113*-31*; V: 58*-18*; D: 138*-36* Audio Built-in MiC Yes Audio Compression G.711a; G.711Mu; PCM; G.726 Lens Detect Observe Recognize Identify Alarm DORI DISTANCE T 28.0 m (112.0 m (367.45 ft)) (113.8 ft) (56.10 ft) (27.89 ft) (127.89 ft) Intelligence IVS (Perimeter Protection) Intelligence Work together with Smart NVR to perform refine Intelligent search, event extraction and merging to event videos Video Video Compression H.265; H.264; H.264H; H.264B; MIPEG (Only supported by the sub stream) Video Frame Rate Video Frame Rate Video Frame Rate Fixed H: 113*-31*; V: 58*-18*; D: 138*-36* Audio Audio Audio Ompression Alarm Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; llegal access; motion detection; video adventoring video and prening rispwire; intrusion; audio detection; video adventoring video and prening rispwire; intrusion; audio detection; video adventoring video and prening video and preni									,
Field of View H: 113"-31"; V: 58"-18"; D: 138"-36" Audio Built-in MIC Yes Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Audio Compression G: 711a; G: 711Mu; PCM; G: 726 Alarm Alarm Alarm Alarm Alarm Alarm Alarm Event Alarm Alarm Event Alarm Alarm Event Alarm Alarm Event Alarm Event Alarm Event Alarm Alarm Event Alarm Alarm Event Alarm Alarm Event Alarm Alarm Event Alarm Alarm Event Alarm Event Alarm Event Alarm Alarm Event Alarm Alarm Event Alarm Event Alarm Alarm Event Alarm Event Alarm Alarm Event Alarm									
Close Focus Distance		·							4 0.00
Close Focus Distance Lens		/							Vas
Lens Detect Observe Recognize Identify DORI Distance W 85.3 m (279.86 ft) (111.88 ft) (56.10 ft) (27.89 ft) T 280.0 m (185.4 ft) (127.89 ft) (183.73 ft) (97.86 ft) (183.73 ft) (Distance							
DORI Distance W	Close Focus I								0.71d, 0.71ma, 1 cm, 0.720
Distance Variable	000								disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external
Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Smart Codec Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (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 Network Protocol Network Protocol Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPOE; Boujour; P2P Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; User/Host 20 (Total bandwidth: 48 M) Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Browser IE; Chrome; Firefox Management Software **The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected Mobile Client iOS; Android			(279.86 ft) 280.0 m	(111.88 ft) 112.0 m	(56.10 ft) 56.0 m	(27.89 ft) 28.0 m			
IVS (Perimeter Protection) classification and accurate detection of vehicle and human) Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Smart Codec Main stream: 3840 × 2160@(1-20 fps)/2688 × 1520@ (1-25/30 fps) sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps) Video Frame Rate Video Frame Rate Video Compression Converted by the sub stream of part of the sub stream of part of the sub stream; for multiple streams, the values will be subjected Network Protocol Network Protocol Network Protocol Proticing (Profile S/Profile G/Profile G/Profile T); CGI; User/Host Video Frame Rate Network Protocol Network Protocol Proticing (Profile S/Profile G/Profile G/Profile T); CGI; User/Host Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Browser IE; Chrome; Firefox Management Software Management Software Mobile Client Mobile Client Network Port RJ-45 (10/100 Base-T) Retwork Protocol RJ-45 (10/100 Base-T) Retwork Protocol RJ-45 (10/100 Base-T) Rate SDK and API Yes Network Protocol IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; MICP; DNS; DNS; DNS; DNS; DNS; DNS; DNS; DNS	Intelligence							Network	
Smart Search Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Network Protocol Network Pro	IVS (Perimet	IVS (Perimeter Protection)						Network Port	RJ-45 (10/100 Base-T)
Video Video Compression Video Compression Video Compression Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Storage Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@(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 Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour; P2P User/Host 20 (Total bandwidth: 48 M) Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Browser IE; Chrome; Firefox Management Software Management Software Mobile Client Mobile Client IOS; Android								SDK and API	Yes
Video Compression H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Storage Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (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 Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; User/Host 20 (Total bandwidth: 48 M) Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Browser IE; Chrome; Firefox Management Software Management Software Mobile Client Mobile Client IOS; Android								Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;
by the sub stream) Smart Codec Smart H.265+; Smart H.264+ Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (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 Mobile Client Octoal bandwidth: 48 M) Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Browser IE; Chrome; Firefox Management Software Mobile Client iOS; Android		video		: H.264H: H.26	4B: MJPEG (On	ly supported		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI;
Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (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 Mobile Client Storage FTP; SFTP; Micro SD card (support max. 256 GB); NAS Browser IE; Chrome; Firefox Management Software SmartPSS Lite; DSS; DMSS	Video Compression							User/Host	20 (Total bandwidth: 48 M)
(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 Video Frame Rate fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected Mobile Client iOS; Android	Smart Codec							Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Frame Rate fps)	Video Frame Rate		(1-25/30 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					Browser	IE; Chrome; Firefox
stream; for multiple streams, the values will be subjected Mobile Client iOS; Android								Management Software	SmartPSS Lite; DSS; DMSS
								Mobile Client	iOS; Android

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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					
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				
Port					
Audio Input	1 channel (RCA port) (Only- ZAS supports)				
Audio Output	1 channel (RCA port) (Only- ZAS supports)				
Alarm Input	1 channel in: 5mA 3V–5 VDC (Only- ZAS supports)				
Alarm Output	1 channel out: 300mA 12 VDC (Only- ZAS supports)				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	-ZS: Basic: 2.7 W (12 VDC); 3.6 W (PoE); Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 8.3 W (12 VDC); 9.6 W (PoE) -ZAS: Basic: 2.7 W (12 VDC); 3.6 W (PoE); Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 8.4 W (12 VDC); 9.7 W (PoE)				
Environment					
Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)				
Operating Humidity	≤95%				
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)				
Storage Humidity	≤95%				
Protection	IP67; IK10 (optional)				
Structure					
Casing Material	Metal				
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)				
Net Weight	-ZS: 0.74 kg (1.63 lb) -ZAS: 0.77 kg (1.70 lb)				
Gross Weight	-ZS: 0.98 kg (2.16 lb) -ZAS: 1.01 kg (2.23 lb)				

Ordering Information								
Туре	Model	Description						
CNAD Come are	DH-IPC-UFW3858T-ZAS	8MP IR Vari-focal Bullet WizSense Network Camera						
8MP Camera	DH-IPC-UFW3858T-ZS	8MP IR Vari-focal Bullet WizSense Network Camera						
	PFA130-E	Water-proof 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:







PFA152-E Pole Mount Bracket



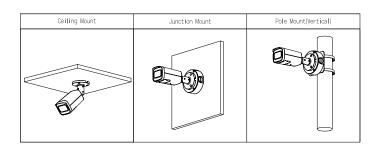
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

