

DH-IPC-HDW3866TP-ZS-AUS-BLK

8MP IR Vari-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.

Series Overview

Dahua WizSense 3 Series Network Camera greatly saves on bandwidth and storage space through its Al Coding technology. Driven by its advanced deep learning algorithms, the camera supports intelligent functions such as perimeter protection, smart motion detection (SMD), Quick Pick, and Al SSA (Al 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

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.

AI SSA

Dahua AI Scene Self-adaptation (AI SSA) adopts deep learning algorithms to detect environmental conditions, such as rain, fog, backlight, low light and flicker, to adjust the parameters of the image to suit the conditions, ensuring that clear images are always produced.

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.

- 8-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8 MP (3840 × 2160) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in IR LED, max. IR distance: 40 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent detection: Intrusion, tripwire (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.
- · Max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67 protection.
- SMD 4.0. AI SSA.













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.

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 works normal 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.

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 comprising the device

Camera Video Frame Rate (1-30 fps) Image Sensor 1/2.8" CMOS *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity Max. Resolution 3840 (H) × 2160 (V) Stream Capability 3 streams ROM 128 MB 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p	Technical Specification							Main stream: 3840 × 2160 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @	
Max. Resolution	Camera				Video Frame Rate	(1–30 fps)			
Max.	Image Sensor		1/2.8" CMOS				video Frame Nate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected	
RAM	Max. Resolution		3840 (H) × 2160 (V)					Stream Canability	
Man.	ROM		128 MB					St. cam supusty	
Seaming system	RAM		1 GB					Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 ×
Min. Illumination	Scanning Sys	tem	Progressive						, , , , , , , , , , , , , , , , , , , ,
Min.	Electronic Sh	nutter Speed	Auto/Manual	1/3 s-1/100,0	00 s				
BLC	Min. Illumina	ation	0.0007 lux@f	1.5 (B/W, 30 IF					H.264: 3 kbps–8192 kbps
Huminator On/Off Control Auto/Manual HLC Yes	S/N Ratio		>56 dB					Day/Night	Auto (ICR)/Color/B/W
March Marc	Illumination	Distance	40 m (131.23	ft)				BLC	Yes
Pan/Titl/Rotation Range	Illuminator (On/Off Control					HLC	Yes	
Clens White Balance	Illuminator N	lumber	2 (IR LED)					WDR	120 dB
Lens Type	Pan/Tilt/Rot	ation Range	Pan: 0°–360°; Tilt: 0°–78°; Rotation: 0°–360°					Yes	
Class Mount							White Balance		
Noise Reduction 30 NR			Motorized vari-focal					Gain Control	Auto
Motion Detection OFF/ON (4 areas, rectangular) Image Stabilization Electronic Image Stabilization (Els)			ф14					Noise Reduction	3D NR
Horizontal: 109"-30" Vertical: 56" -17" Diagonal: 131" -35" Region of Interest (Rol) Yes (4 areas)	Focal Length		2.7 mm-13.5 mm					Motion Detection	OFF/ON (4 areas, rectangular)
Field of View	Max. Aperture							Image Stabilization	Electronic Image Stabilization (EIS)
Close Focus Distance Lens Detect Observe Recognize Identify DORI DORI DISTANCE T 289.7 m; (115.81 ft) (58.07 ft) (15.80 ft) (15.80 ft) (17.9 m; (195.04 ft) Tripwire, intrusion (support the classification and accurate detection of vehicle and human) Al SSA Ves Quick Pick With Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event video Video Video Compression Al Coding Al H 2.65; Smart H 2.65+ Smart H 2.65+ Smart H 2.65+ Smart H 2.664 Al Coding Al H 2.65 Al H 2.66 Al H 2.67 Al	Field of View	1	Vertical: 56° –17°						Yes (4 areas)
Lens Detect Observe Recognize Identify Dorigination Doriginat	Iris Control		Fixed					Defog	Yes
DORI Distance W (28.9.70 ft) (115.81 ft) (58.07 ft) (28.87 ft) T (289.70 ft) (115.91 ft) (58.07 ft) (189.96 ft) (95.14 ft) Intelligence IVS (Perimeter Protection) Tripwire, intrusion (support the classification and accurate detection of vehicle and human) Al SSA Yes Quick Pick With Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events Smart Search 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; MJPEG (only supported by the sub stream) Al Coding Al H.265 Al H.266 Al H.267 Al H.266 Al H.267 Al H.266 Al H.267 Al H.266 Al H.267 Al H.264 Network Protocol SMP; FTP; SFTP; DHC; DMS; DNS; QoS; UPnP; NTP;	Close Focus	Distance	0.8 m (2.62 ft)				AFSA	Yes	
Distance V		Lens	Detect	Observe	Recognize	Identify		Image Rotation	
Tripwire, intrusion (support the classification and accurate detection of vehicle and human) Al SSA Ves Quick Pick With Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events Smart Search Video Video Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart L.265+ Smart H.265+ Al Coding Al H.265 Al H.265 Al H.265 Al H.265 Al H.264 Al Coding Privacy Masking A areas Audio Audio Built-in MIC Yes Audio Compression G.711a; G.711Mu; PCM; G.726; G.723 Alarm Alarm No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; voltage detection; defocus detection; SMD; safety exception Network Network Network Network Privacy Masking Audio Audio Built-in MIC Yes Alarm No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; voltage detection; defocus detection; voltage detection; defocus detection; voltage detection; defocus detection; SMD; safety exception Network Network Network Port Al Coding Al H.265 Al H.265 Al H.265 Al H.264 Al Coding Audio No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network detection; voltage detection; defocus detection; voltage volt		W						Mirror	Yes
Intelligence IVS (Perimeter Protection) Tripwire, intrusion (support the classification and accurate detection of vehicle and human) Al SSA Yes Quick Pick With Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events 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; MJPEG (only supported by the sub stream) Smart Codec Al Coding Al H.265 Al Coding Al H.265 Al H.264 Tripwire, intrusion (support the classification and accurate detection and accurate detection and accurate detection, video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception Network Network Network Pves Al Coding Al H.265 Al H.265 Al H.264 Al Coding Al H.265 Al H.264 Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol	Distance	Т						Privacy Masking	4 areas
IVS (Perimeter Protection) Tripwire, intrusion (support the classification and accurate detection of vehicle and human) Al SSA Yes Alarm Quick Pick With Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events 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; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+ Smart H.264+ Al Coding Al H.265 Al H.265 Al H.265 Al H.264 Network Protocol Built-in MIC Yes Aldio Compression G.711a; G.711Mu; PCM; G.726; G.723 Alarm No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception Network Network Network Port RJ-45 (10/100 Base-T) SDK and API Yes Al Coding Al H.265 Al H.265 Al H.264 Network Protocol Network Protocol Network Protocol Network Protocol	Intelligen	CA.	(950.46 ft)	(379.59 ft)	(189.96 II)	(95.14 II)		Audio	
Audio Compression G.711a; G.711Mu; PCM; G.726; G.723 Alarm Quick Pick With Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events 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; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+ Smart H.264+ Al Coding Al H.265 Al H.265 Al H.266 Al H.266 Al H.265 Al H.266 Al H.265 Al H.266 Al H.265 Al H.266 Al H.267 Al H.266 Al H.266 Al H.266 Al H.267 Al H.268 Al H.268 Al H.267 Al H.268 Al H.268 Al H.268 Al H.268 Al H.268 Al H.269 Al H	_		Trinwire intrusion (support the classification and				Built-in MIC	Yes	
Alarm Quick Pick With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events 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; MJPEG (only supported by the sub stream) Smart Lodec Smart H.265+ Smart H.265+ Smart H.264+ Al Coding Al H.265 Al H.264 Al Coding Al H.265 Al H.264 Network Protocol	IVS (Perimet	er Protection)						Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
that users are interested in from SMD events Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos Video Video Compression Smart L265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Alarm Event Alarm Event Alarm Event No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception Network Network Port Smart H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) Smart H.265+ Smart H.265+ Smart H.264+ SDK and API Yes Al Coding Al H.265 Al H.264 Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol	AI SSA		Yes					Alarm	
Smart Search 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.264H; H.264B; MJPEG (only supported by the sub stream) Smart Codec Smart H.265+ Smart H.264+ Al Coding Alarm Event Alarm Event disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception Network Network Port SDK and API Yes Al Coding Al H.265 Al H.265 Al H.264 Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol	Quick Pick								
Video Compression H.265; H.264; H.264B; MJPEG (only supported by the sub stream) Network Smart Codec Smart H.265+ Smart H.264+ Network Port RJ-45 (10/100 Base-T) Al Coding Al H.265 Al H.264 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;			intelligent search, event extraction and merging to event					Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus
Video Compression by the sub stream) Network Port RJ-45 (10/100 Base-T) Smart H.265+ Smart H.264+ SDK and API Yes Al Coding Al H.265 Al H.264 Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol			H 265: H 264: H 264H: H 264R: MIPEG (only supported					Network	
Smart Lodec Smart H.264+ SDK and API Yes Al Coding Al H.265 Al H.264 Network Protocol Network Protocol SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	Video Compression		by the sub stream)						RJ-45 (10/100 Base-T)
Al H.264 Al H.264 Network Protocol SMTP; FTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	Smart Codec						SDK and API	Yes	
	Al Coding						Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	

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; Trusted upgrade	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	
User/Host	20 (Total bandwidth: 64 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: IE11 Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	IOS; Android	

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
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Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 5.7 W (12 VDC); 6.4 W (PoE) Max. (WDR + IR intensity + Intelligence): 8.9 W (12 VDC); 10.2 W (PoE)		

Environment

Operating Temperature	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}) / \text{Less than 95\% RH}$		
Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)		
Protection	IP67		

Structure

Casing	Metal
Product Dimensions	108.3 mm × Φ122 mm (4.26" × Φ4.8")
Net Weight	715 g (1.58 lb)
Gross Weight	915 g (2.02 lb)

Ordering Information			
Туре	Model	Description	
8MP Camera	DH-IPC-HDW3866TP-ZS-AUS -BLK	8MP IR Vari-focal Eyeball WizSense Network Camera	
	PFA137	Junction Box Bracket	
	PFA109	Mount Adapter	
	PFB220C	Ceiling Mount Bracket	
Accessories	PFB205W-E	Wall Mount	
(Optional)	PFA152-E	Pole Mount	
	PFM321D	12 VDC 1 A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	TLC SD Card	

Accessories

Optional:



PFA137 Junction Box Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Brack



PFM321D 12 VDC 1 A Power Adapter



C

PFB205W-E Wall Mount

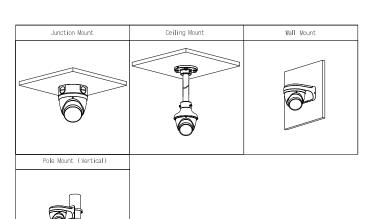




PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card



Dimensions (mm[inch])

