



DH-HFW3TA-KN

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.

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: 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.
- Supports the AFSA (Anti-flicker Self-adaption) function, which automatically eliminates flicker.
- 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.
- Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 (optional) 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 $\pm 30\%$ (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.



Technical Specification					Video Frame Rate	Main stream: 3840 × 2160 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps)	
Camera							
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
Max. Resolution		3840 (H) × 2160 (V)				Stream Capability	to the total encoding capacity 3 streams
ROM		128 MB				Stream Capability	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
RAM		1 GB				Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704×480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Scanning System		Progressive					
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s		Bit Rate Control	CBR/VBR
Min. Illumination			1.5 (Color, 30 IR F1.5 (B/W, 30 IF ator on)	•		Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
S/N Ratio		>56 dB				Day/Night	Auto (ICR)/Color/B/W
Illumination [Distance	60 m (196.85	ft)			BLC	Yes
Illuminator O	Illuminator On/Off Control					HLC	Yes
Illuminator Number		4 (IR LED)				WDR	120 dB
Pan/Tilt/Rotation Range		Pan: 0°-360°;	Tilt: 0°–90°; Ro	otation: 0°–360	0°	Scene Self-adaptation (SSA)	Yes
Lens						White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Type		Motorized va	ri-focal			Gain Control	Auto
Lens Mount		ф14				Noise Reduction	3D NR
Focal Length		2.7 mm-13.5	mm			Motion Detection	OFF/ON (4 areas, rectangular)
Max. Aperture		F1.5				Image Stabilization	Electronic Image Stabilization (EIS)
Field of View		Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 131° –35°				Region of Interest (RoI)	Yes (4 areas)
Iris Control		Fixed				Defog	Yes
Close Focus Distance		0.8 m (2.62 ft)				AFSA	Yes
0.030 . 0003 2	Lens	Detect	Observe	Recognize	Identify	Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
DORI	W	88.3 m	35.3 m	17.7 m	8.8 m	Mirror	Yes
Distance	**	(289.70 ft) 289.7 m	(115.81 ft) 115.7 m	(58.07 ft)	(28.87 ft) 29.0 m	Privacy Masking	4 areas
	Т	(950.46 ft)	(379.59 ft)	57.9m (189.96 ft)	(95.14 ft)	Audio	
Intelligend	ce					Built-in MIC	Yes
IVS (Perimeter Protection)			usion (support ection of vehicle		on and	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
AI SSA		Yes				Alarm	
Quick Pick		,	quickly pick up interested in f		0		-ZAS: 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
Smart Search		-	er with Smart N arch, event extr				
Video						Alarm Event	detection; external alarm; SMD; safety exception -ZS: No SD card; SD card full; SD card error; service life
Video Compression		H.265; H.264 by the sub str	; H.264H; H.264 ream)	4B; MJPEG (onl	y supported		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
Smart Codec		Smart H.265+ Smart H.264+					
Al Coding		AI H.265 AI H.264					



Network Port	RJ-45 (10/100 Base-T)	
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; Multicast; ICMP; IGMP; NFS; SAMBA; PPP0E; SNMP	
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security log: IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Truste 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: IF11 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	
Port		
Audio Input	1 channel (RCA port) (Only- ZAS supports)	
Audio Output	1 channel (RCA port) (Only- ZAS supports)	
Alarm Input	1 channel in: 5 mA 3–5 VDC (Only- ZAS supports)	
Alarm Output	1 channel out: 300 mA 12 VDC (Only- ZAS supports)	
Power		
Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC) 10.5 W (PoE)	

 $-30~^{\circ}\text{C}$ to $+60~^{\circ}\text{C}$ ($-22~^{\circ}\text{F}$ to $140~^{\circ}\text{F}$) /Less than 95% RH

-40°C to +60°C (-40°F to 140°F)

244.1 mm × 79.0 mm × 75.9 mm

 $(9.61" \times 3.11" \times 3.00")$ (L × W × H)

IP67

Metal

820 g (1.81 lb)

1090 g (2.40 lb)

Environment

Operating Temperature

Storage Temperature

Product Dimensions

Protection
Structure
Casing

Net Weight

Gross Weight

Ordering Information						
Туре	Model	Description				
8MP Camera	DH-HFW3TA-KN	8MP IR Vari-focal Bullet WizSense Network Camera				
olvir Calliera	DH-HFW3TA-KN2	8MP IR Vari-focal Bullet WizSense Network Camera				
	PFA130-E	Junction Box				
	PFA135	Junction Box				
Accessories	PFA152-E	Pole Mount				
(Optional)	PFM321D	12 VDC 1 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	TLC SD Card				

Accessories

Optional:









PFA130-E Junction Box



Praisz-i Pole Mount



PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 TLC SD Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])



