



DH-IPC-HFW2449T-ZAS-IL

4MP Smart Dual Light 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

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

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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 x 1520)@20 fps, and supports 2560 ×1440 (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 60 m and the max. warm light 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; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in Mic.
- · 12 VDC/PoE power supply, easy for installation.
- · IP67, IK10 (optional) 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 Fullcolor 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification	n						Smart Codec	Smart H.265+; Smart H.264+
Camera								Main stream: 2688 x 1520@(1–20 fps)/2560 x 3
Image Sensor	1/2.9" CMOS				Video Frame Rate	(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1- fps) *The values above are the max. frame rates of each		
Max. Resolution	2688 (H) x 1520 (V)							
ROM	128 MB					stream; for multiple streams, the values will be subjected to the total encoding capacity.		
RAM	128 MB						Stream Capability	2 streams
Scanning System	Progressive							4M (2688 × 1520/2560 × 1440); 3M (2304 × 129
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s				Resolution	1080p (1920 x 1080); 1.3M (1280 x 960); 720p (720); D1 (704 x 576/704 x 480); VGA (640 x 480)		
Min. Illumination	0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE)				Bit Rate Control	(352 × 288/352 × 240) VBR;CBR		
- (a. a	0 lux (Illuminator on)				Video Bit Rate	H.264: 32 kbps-6144 kbps;		
S/N Ratio		>56 dB				Dou/Night	H.265: 12 kbps–6144 kbps	
Illumination Distance	Up to 60 m (1 Up to 60 m (1	,	. ,	nt)			Day/Night	Auto(ICR)/Color/B/W
lluminator On/Off Control	Auto;Manual						BLC	Yes
Illuminator Number	4 (Multi-core	(IR + warr	n) light)				HLC	Yes
	Pan: 0°-360°						WDR	120 dB
Angle Adjustment	Tilt: 0°–90° Rotation: 0°–360°				White Balance	Auto; natural; street lamp; outdoor; manual; reg custom		
Lens					Gain Control	Auto/Manual		
Lens Type	Motorized var	ri-focal					Noise Reduction	3D NR
ens Mount	φ14				Motion Detection	OFF/ON (4 areas, rectangular)		
Focal Length	2.7 mm-13.5 mm				Region of Interest (RoI)	Yes (4 areas)		
Max. Aperture	F1.5						Smart Illumination	Yes
Field of View	H: 97°-28°; V: 52°-16°; D: 117°-32°				Smart Dual Light	Yes		
Iris Control	Fixed				Image Rotation	$0^{\rm o}/90^{\rm o}/180^{\rm o}/270^{\rm o}$ (Support $90^{\rm o}/270^{\rm o}$ with 2688 resolution and lower)		
Close Focus Distance	0.8 m (2.62 ft	t)					Mirror	Yes
	Lens I	Detect	Observe	Recognize	Identify		Privacy Masking	4 areas
	2.7 mm-	210.0 m 209.97	84.0 m	42.0 m	21.0 m		Audio	
	13.5 mm (203.57) (83.99 ft) (41.9)		(41.99 ft)	€ ft) (20.99 ft)		Built-in MIC	Yes, built-in Mic	
DORI Distance	*DORI (Dete			-	• •		Audio Compression	G.711a; G.711Mu; G.726; PCM
	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/project design tool.				tinguish		Alarm	, , ,
					gent I		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; a detection; voltage detection; defocus detection;
Intelligence								alarm;SMD; security exception
Intrusion, tripwire (the two functions support the				Network				
VS (Perimeter Protection)	classification and accurate detection of vehicle and human)				Network Port	RJ-45 (10/100 Base-T)		
SMD	SMD Plus Work together with Smart NVR to perform refine				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCI RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP Multicast; ICMP; IGMP; P2P		
Smart Search	intelligent search, event extraction and merging to event videos				Interoperability	ONVIF (Profile S & Profile T & Profile G); CGI		
Video				User/Host	6 (Total bandwidth: 36 M)			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)		



Browser Chrome Firefox Management Software Smart PSS Lite; DSS; DMSS; D	
Mobile Client Video encryption; Configuration encryption; Digest; WSSE; Accologs; IP/MAC filtering; Generation; Certification; Syslog; HTTPS; 802 execution; Trusted upgrade Certifications Certification Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest; WSSE; Accologs; HTTPS; 802 execution; Trusted upgrade Certification; Digest Accologs Acco	
Cyber Security Video encryption; Digest; WSSE; Accoologs; IP/MAC filtering; Generatic encryption; Digest; WSSE; Accoologs; IP/MAC filtering; Generatic certification; Syslog; HTTPS; 802 execution; Trusted upgrade Certifications Certifications CE-LVD: EN62368-1; CE-EMC: Compatibility Directive 2014/3 Port Audio Input 1 channel (RCA port) Alarm Input 1 channel (RCA port) Alarm Output 1 channel in: wet contact, 5 m Alarm Output 1 channel out: wet contact, 30 Power Supply 12 VDC; PoE (802.3af) Basic: 2.6 W (12 VDC), 3.1 W (Max.: 10.2 W (12 VDC), 12.7 V (intelligence on+ WDR + warm) Environment Operating Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact) Storage Temperature -30 °C to +60 °C (-22 °F to +3 contact)	DoLynk Care
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Operating Humidity ≤95% (RH), non-condensing Storage Temperature −30 °C to +60 °C (−22 °F to +: Storage Humidity ≤95% (RH), non-condensing Protection IP67; IK10 (optional) Structure Casing Material Metal Product Dimensions (L x W x H)	
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Protection IP67; IK10 (optional) Structure Casing Material Metal Product Dimensions 238.5 mm × 90.7 mm × 90.7 (L × W × H)	+140 °F)
Structure Casing Material Metal Product Dimensions 238.5 mm × 90.7 mm × 90.7 (L × W × H)	
Casing Material Metal Product Dimensions 238.5 mm × 90.7 mm × 90.7 t(L × W × H)	
Product Dimensions 238.5 mm x 90.7 mm x 90.7 t (L x W x H)	
(L × W × H)	
Net Weight 0.76 kg (1.68 lb)	7 mm (9.39" x 3.57" x 3.57")
Gross Weight 0.95 kg (2.09 lb)	
0 11 10 00 11	7 mm (9.39" × 3.57" × 3.57"

Ordering Information				
Туре	Model	Description		
IP CAMERA	DH-IPC-HFW2449T-ZAS-IL	4MP Smart Dual Light Vari- focal Bullet WizSense Network Camera		
	DH-PFA151	Corner mount bracket		
	G3416GW	G3/4" Water Joint		
	DH-PFA130-E	Water-proof Junction Box		
	DH-PFA152-E	Pole Mount Bracket		
Accessories (Optional)	DH-PFA135	Junction box		
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter		
	DH-PFM321D-EN	DC12V 1A power adapter		
	DH-PFM320D-EN	DC12V2A power adapter		
	PFM900-E	Integrated Mount Tester		
	DHI-TF-P100/256GB	MicroSD Card		

Accessories

Optional:







DH-PFA151 Corner mount bracket

DH-PFA130-E Water-proof Junction Box

DH-PFA152-E Pole Mount Bracket







DH-PFA135 Junction box

DH-PFM321-EN DC12V1A power adapter DC12V 1A power adapter

DH-PFM321D-EN



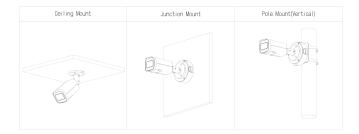




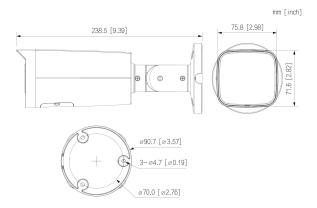
DH-PFM320D-EN DC12V2A power adapter

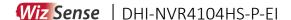
PFM900-E Integrated Mount Tester

DHI-TF-P100/256GB MicroSD Card



Dimensions (mm[inch])







DHI-NVR4104HS-P-EI

4CH Compact 1U 4PoE 1HDD WizSense Network Video Recorder





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

NVR4000-EI series is a new generation of network recorders that offers powerful decoding capabilities, and strong bandwidth. It features high-precision face recognition, perimeter protection, and SMD (Smart Motion Detection), which can distinguish target vehicles and humans from other types in real time. When connected with select IPC cameras, Quick Pick technology becomes available, allowing human and vehicle targets to be easily searched for and picked out. This network recorder is not only cost-effective, but also compatible with a wide variety of third-party devices, making it a great choice for small and medium-sized businesses.

Functions

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- · Access, storage or forwarding at 80 Mbps
- Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding
- AI by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus
- Al by Camera: Face detection and recognition, perimeter protection; SMD Plus; people counting; stereo analysis; heat map
- · Connected to the third-party network cameras
- · Security baseline 2.3



















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.

Al Search

With AI search, operators can search for videos by the attributes of targets and event types, which helps them to quickly and efficiently investigate where and when targets appeared and events took place.

Heat Map by Camera

Dahua heat map technology is used to display the crowd density and people appearance probability. Export and display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

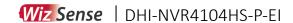
ANPR by Camera

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support blocklist/allowlist mode, searching target vehicles from recorded video.

Quick Pick

Dahua Quick Pick technology can enable users to quickly pick up the human/vehicle targets that they are interested in, which facilitates retrieval from SMD events.

Technical Specification	n	Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 108	
System			960p; 720p; D1; CIF	
Main Processor	Industrial-grade processor		Al disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 6	
Operating System	Embedded Linux	Decoding Capability		
Operating Interface	Web, Local GUI		MP@30 fps; 4-channel 5 MP@30 fps	
Al			1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 12	
Al by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;	Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources outp VGA and HDMI is configurable.	
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Multi-screen Display	1st Screen: 1/4 2nd Screen: 1/4	
Perimeter Protection		Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Ol	
Perimeter Performance Al by Recorder (Number of	2 channels 10 IVS rules for each channel		Canon	
Channels)	2 channels, 10 IVS rules for each channel	Compression Standa	Compression Standard	
Perimeter Performance of		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEC	
Al by Camera (Number of Channels)	All channels (8 targets/s)	Audio Compression	G.711a; G.711u; PCM; G726	
Face Detection		Network		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; UDF SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FT Alarm Server; IP Search (Support Dahua IP camera DVR; NVS; etc.); P2P; auto register	
Face Detection Performance of AI by	1 channel (up to 12 face images/s each channel)	Mobile Phone Access	iOS; Android	
Recorder (Number of Channels)		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SD	
Face Detection	All channels (8 targets/s)	Browser	Chrome; IE9 and later; Firefox	
Performance of AI by		Recording Playback		
Camera (Number of Channels)		Multi-channel Playback	Up to 4 channels	
Face Recognition		Record Mode	General, motion detection; intelligent; alarm	
	Up to 10 face databases with 20,000 images, with a	Backup Method	USB device and network	
Face Database Capacity	total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.	Playback Mode	Instant playback, general playback, event playback playback, smart playback	
Face Recognition	4-channel FD (by camera) + FR (by recorder),image	Alarm		
Performance of AI by Recorder (Number of Channels)	stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s	General Alarm	Motion detection; privacy masking; video loss; sce changing; PIR alarm; IPC external alarm	
Face Recognition Performance of AI by Camera (Number of	All channels (8 targets/s)	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecu exception	
Channels)		Intelligent Alarm	Face detection; face recognition; perimeter protections SMD Plus; people counting; stereo analysis; heat r	
SMD Plus		Alarm Linkago	Record; snapshot; IPC external alarm output; audi	
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Alarm Linkage Port	buzzer; log; preset; email	
SMD Plus by Camera	All channels (16 targets/s)	Audio Input	1-channel RCA	
Audio and Video		Audio Output	1-channel RCA	
Access Channel	4 channels	Disk Interface	1 SATA port, up to 16 TB.The maximum HDD capac	
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoin	USB	varies with environment temperature. 2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
		HDMI	1	



VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at

General

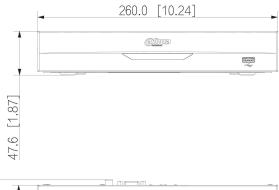
Power Supply	53 VDC, 1.226 A	
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 36W,the maximum output power of asingle port is 25.5W	
Net Weight	0.86 kg (1.90 lb)	
Gross Weight	1.88 kg (4.14 lb)	
Product Dimensions	260 mm \times 232.7 mm \times 47.6 mm (10.24" \times 9.16" \times 1.87") (W \times L \times H)	
Packaging Dimensions	333 mm × 89 mm × 315 mm (13.11" × 3.50" × 12.40") (W × L × H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Storage Temperature	−20 °C to +60 °C (−4 °F to +140 °F)	
Operating Humidity	10%–93% (RH), non-condensing	
Installation	Rack or desktop	
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014	

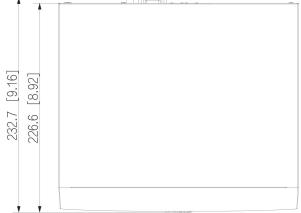
Ordering Information

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Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR4104HS-P-EI	4CH Compact 1U 4PoE 1HDD WizSense Network Video Recorder

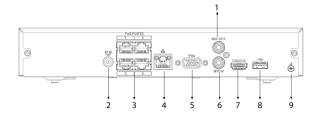
Dimensions (mm[inch])







Panels



- 1 AUDIO OUT, RCA Connector
- 3 PoE Ports
- 5 VGA Port
- 7 HDMI Port
- 9 Ground
- 2 Power Input
- 4 Network Port
- 6 AUDIO IN, RCA Connector
- 8 USB Port