



DH-IPC-HFW2541E-S

5MP IR 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.

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

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

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.

- \bullet 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 5 MP (2592 × 1944) @20 fps, and supports 4 MP (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 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 and tripwire(the two functions support the classification and accurate detection of vehicle and human).
- · Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card; built in 1-channel MIC.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · SMD Plus.













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 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.

Technical Specification					5M (2592 × 1944); 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280			
Camera							Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.7" CMOS					Bit Rate Control	CBR/VBR
Max. Resolution		2592 (H) × 1944 (V)					Video Bit Rate	H.264: 3 kbps–8192 kbps
ROM		128 MB						H.265: 3 kbps–8192 kbps
RAM		512 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		0.005 lux@F1.6(Color,30 IRE) 0.0005 lLux@F1.6(B/W,30 IRE) 0 lux (Illuminator on)					WDR Scene Self-adaptation (SSA)	120 dB Yes
S/N Ratio		>56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional
Illumination	Distance	30 m (98.43 ft) (IR LED)						custom
Illuminator C	On/Off Control	Auto;Manual					Gain Control	Auto;Manual
Illuminator N	lumber	1(IR LED)					Noise Reduction	3D DNR
		Pan: 0°-360°					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Lens Mount		M12					Mirror	Yes
Focal Length		2.8 mm; 3.6 mm					Privacy Masking	4 areas
Max. Apertu	re	F1.6					Audio	
Field of View	,	2.8 mm: H: 97°; V: 71°; D: 129° 3.6 mm: H: 80°; V: 57°; D: 107°					Built-in MIC	Yes
Iris Control		Fixed					Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus I	Distance	2.8 mm: 1.1 m (3.61 ft)				Alarm		
	Lens	3.6 mm: 1.7 r		Recognize	Identify		disconnection; IP conflict; illegal access; mot Alarm Event detection; video tampering; tripwire; intrusion	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion
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 (21.00 ft)			detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; SMD; security exception
	3.6 mm	85.4 m	34.2 m	17.1 m	8.5 m		Network	
Intelligen	ce	(280.18 ft) (112.20 ft) (56.10 ft) (27.89 ft)				Network Port	RJ-45 (10/100 Base-T)	
IIICIIIgein	CC	Tripwire; intrusion(the two functions support the					SDK and API	Yes
IVS (Perimeter Protection)		classification and accurate detection of vehicle and human)					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
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					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; PPPoE; SNMP
		by the sub stream) Smart H 265+: Smart H 264+					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
Smart Codec		Smart H.265+; Smart H.264+ Main stream: 2592 × 1944@(1–20 fps)/2688 × 1520@					User/Host	20 (Total bandwidth: 64 M)
Video Frame Rate		(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Stream Capability		2 streams					Browser	IE Chrome Firefox

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Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU ECC: 47 CER ECC Part 15, Subpart R
	FCC: 47 CFR FCC Part 15, Subpart B

Power

Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 3.2 W (12 VDC); 3.8 W (PoE) Max(WDR + IR intensity + Intelligence): 5.5 W (12 VDC); 6.2 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	Metal
Product Dimensions	192.7 mm × 70.5 mm × 66.4 mm (7.59" × 2.78" × 2.61") (L × W × H)
Net Weight	590 g (1.30 lb)
Gross Weight	780 g (1.72 lb)

Ordering Information Model Description Type 5MP IR Fixed-focal Bullet DH-IPC-HFW2541E-S-0280B WizSense Network Camera 5MP Camera 5MP IR Fixed-focal Bullet DH-IPC-HFW2541E-S-0360B WizSense Network Camera PFA130-E Junction Box PFA152-E Pole Mount Accessories 12 VDC 1 A Power Adapter PFM321D (Optional) PFM900-E Integrated Mount Tester TF-P100 MicroSD Memory Card

Accessories

Optional:







PFA130-E Junction Box

PFA152-E Pole Mount

PFM321D 12V DC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

