

DHE4210300

WizMind 5MP Fixed Focus IR Bullet IP Camera



Launched by Dahua Technology, Dahua WizMind is a complete portfolio of solutions composed of project-oriented products including IPC, IVSS, NVR, PTZ, XVR, Thermal and software platforms that adopt leading deep learning algorithms in the industry. Focusing on customer requirements, WizMind offers solutions for accurate, reliable, and comprehensive artificial intelligence for vertical sectors.

Series Summary

Dahua network

The WizMind S Series offers a variety of intelligent features that greatly improve the accuracy of audio and video analysis. It supports video metadata, Intelligent sound detection, face detection, perimeter protection, people counting, and more. The camera also adopts advanced technology

AI ISP image processing and Deeplight night vision. The camera is dustproof, waterproof, and vandal-proof, and is certified

such as IP67 and IK10 (the type of protection varies depending on the model).

Functions

Artificial Intelligence Internet Service Provider

With AI ISP technology, the camera can easily adapt to scenes, producing high-quality images that reveal the fine details of the targets.

Self-learning

Equipped with deep learning technology, the device recognizes different types of objectives and their states through learning and analysis of characteristics of the target to detect targets and filter false alarms.

Perimeter protection

Thanks to the deep learning algorithm, the perimeter protection technology of Dahua can accurately recognize people and vehicles. In restricted areas (such as pedestrian and vehicle areas), the false alarms of intelligent detection based on the target type (such as tripwires, intrusion, fast moving, detection of parking, loitering detection and gathering detection) are greatly reduced extent.

AcuPick

This industry-leading search technology effectively uses intelligence from both from the frontend and backend to help with searching through video data massive to locate targets quickly and conveniently with greater precision.

** The parameters and data sheets below can only be*

apply to the 5541-ASE-S3 series.

• 5MP 1/2.7" CMOS image sensor, low luminance and high definition image, high definition.

• Maximum output of 5 MP (2960×1668) at 25/30 fps.

• Built-in IR LED and the maximum illumination distance is 50m. ROI, SVC,

• SMART H.264+/H.265+, AI H.264/H.265, Post-filter encoding, Flexible coding, applicable to various bandwidth environments and storage.

• Rotation mode, WDR, 3D NR, HLC, BLC, Digital watermark, applicable to various monitoring scenes.

• With a deep learning algorithm, it supports: video metadata, detection of intelligent sound, IVS, face detection, intelligent object detection, counting people, etc.

• Alarm: 1 input, 1 output; Audio: 1 input, 1 output; Supports Micro SD card up to 1 TB, built-in microphone.

• 12 VDC/PoE power supply; ePoE.

• IP67 protection.

• Grade A.



People counting

With a deep learning algorithm, Dahua's people counting technology can track and process moving body targets to obtain statistics precise input number, output number and area number. When working with the management platform, generates reports to meet your requirements.

Video metadata

With a deep learning algorithm, Dahua's video metadata technology can detect, track, capture vehicles, non-motor vehicles and people, select the better images and extract attributes.

Cybersecurity

Dahua network cameras employ a range of security technologies, including security authentication and authorization, access control protocols, reliable protection, encrypted transmission, and encrypted storage. These technologies enhance the camera's defense against external cyber threats and prevent malware from compromising the device.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict tests for dust and moisture resistance. It has a Dustproof function and the housing can work normally after immersing it in water at 1m deep for 30 minutes.

Wide voltage: The camera allows an input voltage tolerance of $\pm 30\%$ (for some power supplies) (wide voltage range) and is widely applied in outdoor environments with unstable voltage.

Technical specifications	
Camera	
Image sensor	1/2.7" CMOS
Maximum resolution	2960 (height) × 1668 (vertical)
read-only memory	4 GB 1
RAM	GB
Scanning system	Progressive
Electronic shutter speed	Automatic/Manual 1/3 s–1/100,000 s
Minimum lighting	0.0009 lux at F1.6 (color, 30 IRE) 0.0005 lux at F1.6 (black and white, 30 IRE) 0 lux (illuminator activated)
Signal-to-noise ratio	> 56 dB
Illumination distance	Up to 50 m (164.04 ft) (IR)
Illuminator on/off control	Automatic; Manual
Illuminator number	1 (infrared LED)
Angle adjustment	Rotation: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

Lens					
Lens type		Fixed focus			
Lens mount		M12			
Focal length		2.8 mm; 3.6 mm; 6 mm			
Maximum opening		F1.6			
Field of view		2.8 mm: Height: 111°; V: 58°; Re: 132° 3.6mm: Height: 92°; V: 45°; Depth: 110° 6 mm: Height: 57°; V: 30°; Re: 65°			
Iris control		Fixed			
Close focusing distance		2.8 mm: 1.1 m (3.06 ft) 3.6 mm: 1.7 m (5.58 ft) 6 mm: 3.2 m (10.50 ft)			
Dori Distance	Lens	Detect	Notice	Recognize	Identify
	2.8 millimeters	63.6 meters (208.66 feet)	25.4 meters (83.33 feet)	12.7 meters (41.67 ft)	6.4 meters (21.00 feet)
	3.6 millimeters	85.4 meters (280.18 feet)	34.2 meters (112.20 feet)	17.1 meters (56.10 feet)	8.5 meters (27.89 ft)
	6 millimeters	124.0 meters (406.82 feet)	49.6 meters (162.73 feet)	24.8 meters (81.36 feet)	12.4 meters (40.68 ft)
	* DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) which defines the ability of a person watching the video to distinguish people or objects within a covered area. The numbers in this table do not reflect the intelligent function distances. To know the function distances smart, refer to the installation and commissioning manual or the tool project design.				

Intelligence	
IVS (Perimeter Protection)	Intrusion, snare, fast-moving (all three functions support classification and accurate detection of vehicles, animals, and people); loitering detection, crowding, and parking detection. Supports long-distance mode. Supports self-learning and filters out false alarms.
Intelligent object detection	Intelligent Abandoned Object; smart lost object

SMD	SMD 3.0
AcuPick	It uses deep learning algorithms and works with back-end devices to accurately match targets, such as people, animals and motor vehicles, and search in live and recorded videos to quickly locate targets.
IA SSA	Yeah
Face detection	Face detection; tracking; snapshot; snapshot optimization; upload optimal facial snapshots; facial enhancement; facial exposure; extraction of facial attributes including 6 attributes and 8 expressions; snapshot of the face set as face, one-inch photo or custom; strategies snapshots (real-time snapshot, quality priority, and snapshot of optimization); face angle filter; optimization time setting
People counting	People counting via Tripwire, report generation and export (day/week/month/year); area people counting and queue management, report generation and export (day/week/month); 4 rules can be configured for Tripwire, area people counting, and queue management.
Heat map	Yeah
Video metadata	Detection of motor vehicles, non-motor vehicles, faces and human bodies; tracking; snapshot; snapshot optimization; optimal loading of face snapshots. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seat belt, smoking, call. Non-motorized vehicle attributes: type, color, number of people, type and color of hood, hat. Human body attributes: gender, type, and upper body color bottom, bag, hat and umbrella. Facial attributes: gender, age, expressions, glasses, mask and beard.
Smart Search	Work with Smart NVR to perform refined smart searches, event extraction, and event video merging.
Intelligent sound detection	Yeah

Video	
Video compression	H.265; H.264; H.264H; H.264B; MJPEG (substream only supported)
Smart Codec	Smart H.265+; Smart H.264+
AI Coding	AI-H.265; AI-H.264
Video frame rate	Main stream: 2960 × 1668@(1–25/30 fps) Secondary transmission: D@(1–25/30 fps) Third stream: 1080p at (1–25/30 fps) Fourth stream: 720p at (1–25/30 fps) * The above values are the maximum frame rates of each transmission; for multiple transmissions, the values will be subject to the full coding capacity.
Transmission capacity	4 currents
Resolution	5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit rate control	CBR/VBR
Video bit rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–11776 kbps
Day/Night	Automatic (ICR)/Color/B/W
BLC	Yeah
HLCC (Human Behavior Clearinghouse)	Yeah

Wide Dynamic Range (WDR)	120dB
Scene self-adaptation (SSA)	Yeah
White balance	Automatic; natural; streetlight; outdoor; manual; regional custom
Gain control	Car
Noise reduction	3D noise reduction
Motion detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart lighting	Yes Yes
Defog	0°/90°/180°/270° (Supports 90°/270° with a resolution of 4M (2688 × 1520) and below)
Image rotation	
Mirror	Yeah
Privacy Masking	8 areas
Least developed countries	Yes (only supports 2.8mm/3.6mm)

Audio

Built-in microphone	Yeah
Audio compression	G.711a; G.711Mu; PCM; G.726; G.723

Alarm

Alarm event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; tampering video; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; gathering of people; detection of Parking; Scene Change; Audio Detection; Voltage Detection; External alarm; Face detection; Video metadata; SMD; Counting people in the area; occupancy detection; people counting; error detection in the number of people; number alarm People in queue; queue time alarm; security exception
-------------	---

Grid

Network port	RJ-45 (Enhanced 10/100 Base-T)
SDK and API	Yeah
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; P2P; Automatic registration
Interoperability	ONVIF
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD Card (supports max. 1 TB); NAS
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later
Management software	SmartPSS Lite; DSS; DMSS
Mobile client	iOS; Android
Cybersecurity	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted update; trusted boot; firmware encryption; X.509 certification generation and import

Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC:47CFR47CPart15, SubpartB UL/CUL: UL62368-1 and CAN/CSA C22.2 No. 62368-1-14
Port	
Audio input	1 channel (RCA port)
Audio output	1 channel (RCA port)
Alarm input	1 input channel: wet contact, 5 mA 3 V-5 V DC
Alarm output	1 output channel: wet contact, 300 mA 12 V DC

Force

Power supply	12 VDC/PoE (802.3af)/ePoE
Double power backup	When the power adapter and PoE are providing power at the same time, disconnect one of them. The device will continue to operate, but it will not reboot.
Energy consumption	Basic: 4 W (12 VDC); 5.8W (PoE) Max. (H.265+WDR+Intelligence On+IR On): 6.2W (12VDC); 8.3W (PoE)

Atmosphere

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)
Storage humidity	10%–95% (RH), non-condensing
Protection	IP67

Structure

Housing material	Metal
Product Dimensions	192.7 mm × 70.5 mm × 66.4 mm (7.59" × 2.78" × 2.61") (L × W × H)
Net weight	590 grams (1.30 pounds)
Gross weight	780 grams (1.72 pounds)

Ordering Information		
Guy	Model	Description
5MP Camera	DHE4210300	5MP IR Fixed Focus Bullet Network Camera
	DHE4210300	5MP IR Fixed Focus Bullet Network Camera
Accessories (Optional)	PFA130-E	Waterproof junction box
	PFA152-E	Pole Mount Bracket
	PFM321D	12V DC 1A Power Adapter
	PFM900-E	Integrated assembly tester
	TF-P100	MicroSD memory card

Accessories

Optional:



PFA130-E
Waterproof
junction box



PFA152-E
Pole mounting bracket



PFM321D
12VDC 1A power supply
Adapter

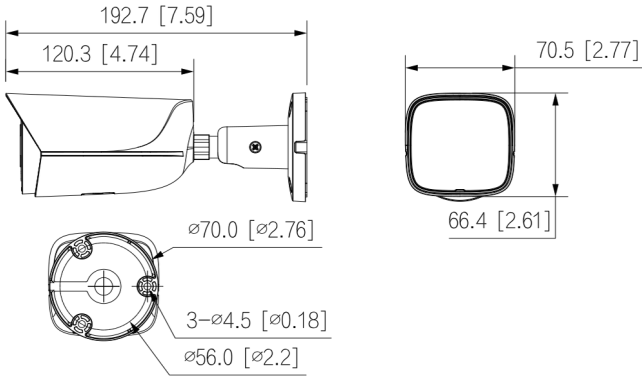


PFM900-E
Integrated
Assembly tester



TF-P100
MicroSD
Memory card

Dimensions (mm [inches])



Ceiling Mount	Junction Mount	Pole Mount(Vertical)