



EN-B8695Z-AI

8MP IR Bullet WizMind Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, Dahua WizMind X Series network camera supports various intelligent functions, meeting the requirements of a wide variety of scenes. The camera can accurately recognize people, motor and non-motor vehicles, faces. It also supports PPE detection, smart sound detection, privacy protection, ANPR, parking space management, and enabling 2 intelligent functions at the same time. The camera adopts advanced image processing AI-Powered Image technology, has the Deeplight night vision effect and works with ultra-low streams. It is also dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

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

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle (Sedan, SUV, Police Car, Taxi, Van, MPV, Fire Engine, Pickup, Ambulance, Medium Truck, Light Truck, Mixer Truck, Tractor, Sanitation Truck, Heavy Truck, Powder Material Truck, Sewage Suction Truck, Tank Truck, Construction Truck, Medium Bus, Bus, etc.), non-motor vehicle (Bicycle, Motorcycle, Tricycle, etc.) and people, and select the best images, and extract attributes. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@50/60 fps.
- Built-in IR LED, and the max. illumination distance is 120 m.
- ROI, flexible coding, applicable to various bandwidth and storage environments.
- Two intelligent functions can be enabled at the same time, such as face recognition+people counting, face detection+people counting and PPE Detection+IVS.
- With deep learning algorithm, it supports: face recognition, face detection, IVS, people counting, video metadata, PPE Detection, parking space management and ANPR, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485, BNC; supports max. 512 G Micro SD card.
- 12 VDC/24 VAC/PoE+/ePoE power supply, 12 VDC power output, max. current 165 mA and peak current is 700 mA, easy for installation.
- IP67 and IK10 protection.
- · Anti-Corrosion coating(optional).



ANPR

With high-performance GPU chip, deep learning algorithm, and lots of sample training learning, Dahua ANPR technology can automatically collect and recognize the vehicle information, including license plate, logo, vehicle type, and vehicle color.

PPE Detection

With the PPE Detection function, the camera can detect attributes including workwear, hat, face mask, apron, gloves, shoe covers, boots, seatbelt, safety vest, and determine whether PPE requirements are met. Match attributes alarm or mismatch attributes alarm can be triggered according to the alarm settings.



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.

Privacy Protection

Dahua Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.

Protecton (IP67, IK10, Wide Voltage)

outdoor environment with instable 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	8 GB
RAM	4 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.0007 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56dB
Illumination Distance	Up to 120 m (393.70 ft) (IR LED)
Illuminator On/Off Control	Auto
Illuminator Number	4 (IR LED)
Angle Adjustment	Pan: 0-360° Tilt: 0-90° Rotation: 0-360°

Lens

Lens Type	Motorized vari-focal
Lens Mount	Module
Lens Mount	Module
Focal Length	8 mm=32 mm
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Max. Aperture	F1.6
Field of View	H: 42°-15°; V: 23°-9°; D: 48°-17°
Iris Control	Auto
Iris Control Type	P-Iris
Iris Control Type	P-Iris

Close Focus I	Distance	1.5 m (4.92 ft)			
	Lens	Detect	Observe	Recognize	Identify
	W	213.6 m (700.79 ft)	85.4 m (280.18 ft)	42.7 m (140.09 ft)	21.4 m (70.21 ft)
DORI	Т	572.8 m (1879.27 ft)	227.1 m (751.64 ft)	114.6 m (375.98 ft)	57.3 m (187.99 ft)
Distance	*DORI (Detect, Observe, Recognize, Identify) is a 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			ne ea. The	

commissioning manual/project design tool.

Smart Event	
IVS	Abandoned object; missing object
Intelligence	
EPTZ	Yes
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection, privacy protection
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting; privacy protection
Face Recognition	There are two modes: General mode and counting mode. General mode: Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting. privacy protection Supports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 200,000 face pictures. Counting mode: Offers advanced customer counter, filters out specified faces from the face database, and exports reports both before and after removing duplicate faces.
PPE Detection	Triggers alarms when the detected object matches or does not match all of the configured attributes (workwear, hat, face mask, apron, gloves, shoe covers, boots, seatbelt, safety vest); privacy protection
People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire people counting, people counting in area and queue management; privacy protection
Heat Map	Yes
ANPR	ANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle color. Other attributes: Seat belt, smoking, calling. Suppor up to 10,000 blocklist records and 10,000 allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60km/h.



Parking Space Management: Manage outdoor and planned parking lots; manage parking spaces in multiple		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Management areas; displ	areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based on	Mirror	Yes
	a predefined number of vehicles.	Privacy Masking	8 areas
Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face		Audio	
	snapshot upload. Motor vehicle attributes: License plate, vehicle type,	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
	wehicle color, vehicle logo, seatbelt, smoking, and calling. Generates flow statistics for people, motor vehicles and	Alarm	
Video Metadata	non-motor vehicles based on the direction, and exports reports. Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat. Human body attributes: Top and bottom type and color, bag, hat, gender and umbrella. privacy protection. Work together with Smart NVR to perform refine	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; parking space management; scene changing; audio detection; defocus detection; external alarm; face detection; face recognition; video metadata; ANPR; people counting in area; stay alarm; people counting; people number error
Smart Search	intelligent search, event extraction and merging to event videos		detection; people stay detection; security exception; PPE detection
Video		Network	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	Network Port	RJ-45 (10/100/1000 Base-T)
Smart Codec	Smart H.265+; Smart H.264+	SDK and API	Yes
	Default: Main Stream: 3840 × 2160@(1–25/30 fps) Sub stream: 1920 × 1080@(1–25/30 fps) Third stream: 1920 × 1080@(1–25/30 fps)	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
Video Frame Rate	Fourth stream: 1920 × 1080@(1–25/30 fps) Fifth stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) High Frame Rate: Main Stream: 3840 × 2160@(1–50/60 fps) Sub stream: 1920 × 1080@(1–25/30 fps)	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
		User/Host	20 (Total bandwidth: 340 M)
		Storage	FTP;SFTP; Micro SD card (support max. 512 GB); NAS
Stream Capability	5 streams	Browser	IE: IE11 and later; Chrome: Chrome 88.0.4324.190 and later; Firefox: Firefox 47.0.2 and later;
	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536);	Management Software	SmartPSS Lite; DSS; DMSS
Resolution	3M (2304 × 1296) 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	Mobile Client	iOS;Android
Bit Rate Control	CBR/VBR	Calcar Caracrite	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification
Video Bit Rate	H.264: 32 kbps–16384 kbps; H.264: 12 kbps–12800 kbps	Cyber Security	
Day/Night	Auto(ICR)/Color/B/W	Certification	
BLC	Yes		CE-LVD: EN62368-1;
HLC	Yes	Certifications	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; UL 50E NEMA Type 4X
WDR	120 dB		
Scene Self-adaptation (SSA)	Yes	Port	OL JOL NEIVIA I YPE 4A
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	RS-485	1 (baud rate range:1200 bps–115200 bps)
Gain Control	Auto	Audio Input	1 channel (RCA port)
Noise Reduction	3D NR	Audio Output	1 channel (RCA port)
Motion Detection	OFF/ON (4 areas, rectangular)	Alarm Input	3 channels in: wet contact, 5 mA 3–5 VDC
Region of Interest (RoI)	Yes (4 areas)	Alarm Output	2 channels out: dry contact, 1,000 mA 30 VDC/500 mA 50 VAC
Image Stabilization	Electronic Image Stabilization (EIS)	Analog Output	1 channel (CVBS output: BNC)
Smart Illumination	Yes	Power Output	12 VDC power output, max. current 165 mA, peak
Defog	Yes	r ower Output	current 700 mA



Power

Power Supply	12 VDC/24 VAC/PoE+ (802.3at)/ePoE
Power Consumption	Basic: 7.3 W (12 VDC); 10.2 W (24 VAC); 10.6 W (PoE) Max. (ICR switch + IR intensity): 18.2 W (12 VDC); 18.73 W(24 VAC); 24.3 W (PoE) Heating: 3 W (12 VDC); 4.6 W (24 VAC); 5.47 W (PoE)

Environment

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Storage Humidity	10–95%
Protection	IP67; IK10; Anti-Corrosion Protection (optional)

Structure

Casing Material	Metal + plastic
Product Dimensions	345.6 mm \times 134.2 mm \times 135.1 mm (13.61" \times 5.28" \times 5.32") (L \times W \times H)
Net Weight	1.65 kg (3.64 lb)
Gross Weight	2.73 kg (6.02 lb)

Ordering Information		
Туре	Model	Description
8MP Camera	EN-B8695Z-AI	8MP IR Bullet WizMind Network Camera
		8MP IR Bullet WizMind Network Camera
	PFA154	Pole mount bracket
Accessories	PFM320D	12 VDC 2A Power Adapter
(Optional)	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

Optional:







PFM320D 12 VDC 2A Power Adapter



PFM900-E Integrated Mount Tester

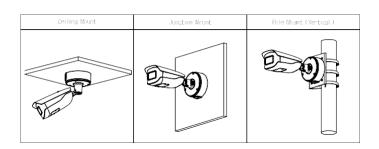


TF-P100 MicroSD Memory Card

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Dimensions (mm[inch])

