GX-HT728DL-M-AI-AP-28

8MP IR Fixed-focal Eyeball WizMind Network Camera

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

Series Overview

Driven by deep learning algorithms, WizMind S Series network camera offers a variety of intelligent functions that greatly improve accuracy of audio video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting more. camera also adopts advanced image processing AI-Powered Image technology Deeplight night vision effect. camera is dustproof, waterproof -proof, is certified as IP67 IK10 (type of protection varies depending on model).

Functions

AI-Powered Image

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

Perimeter Protection

With deep learning algorithm, Perimeter Protection technology recognize human vehicle accurately. In restricted (such as pedestrian vehicle), false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection gathering detection) are largely reduced.

Face Detection

Face Detection technology detect face in image. With deep learning algorithm, technology supports detecting, tracking, capturing selecting best face image, then outputs face snapshot.

Smart Sound Detection

With deep learning algorithms, Smart Sound Detection technology detect identify sound of screams, glass breaking, more.

* parameters datasheets below only be applied to 5842-ASE-S3 series.

· 8-MP 1/1.8" CMOS image sensor, low luminance, high definition image.

· Outputs . 8 MP (3840×2160) @25/30fps.

· Built-in IR LED, . illumination distance is 50 m.

· ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth storage environments.

· Rotation mode, WDR, 3D NR, , BLC, digital watermarking, applicable to various monitoring scenes.

· With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, people counting, etc.

· Alarm: 1 in, 1 ; audio: 1 in, 1 ; supports . 512 GB Micro SD , built-in MIC.

· 12 VDC/PoE power supply; ePoE.

· IP67 protection.

· SMD 3.0.

| 8Mp | AI-Powered Image | Deeplight | Perimeter Protection | People Counting | Video Metadata |

People Counting

With deep learning algorithm, People Counting technology track process moving human body targets to realize accurate statistics of enter No., leave No., In No. Working with management platform, it outputs reports to meet your requirements.

Video Metadata

With deep learning algorithm, Video Metadata technology detect, track, capture vehicle, non-motor vehicle people, select best images, extract attributes.

Cyber Security

network cameras employ a series of security technologies, including security authentication authorization, access control protocols, trusted protection, encrypted transmission encrypted storage. These technologies improve camera's defense against external cyber threats prevent malicious programs from compromising device.

Protection (IP67, Wide Voltage)

IP67: camera passes a series of strict test on soak. It -proof function, enclosure work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
. Resolution	3840 (H) × 2160 (V)
ROM	4 GB
	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/ 1/3 s–1/100,000 s
Min. Illumination	0.0008 @F1.6 (Color, 30 IRE) 0.0004 @F1.6 (B/W, 30 IRE) 0 (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	50 m (164.04 ft) (IR)
Illuminator On/Off Control	Auto;
Illuminator Number	2 (IR LED)
Angle Adjustment	: 0°–360° Tilt: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed-focal
Lens Mount	M16
Focal Length	2.8mm; 3.6mm; 6mm
. Aperture	F1.6
Field of View	2.8 mm: H: 111°; V: 59°; D: 131° 3.6 mm: H: 87°; V: 47°; D: 102° 6 mm: H: 55°; V: 30°; D: 64°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 1.8 m 3.6 mm: 2.6 m 6 mm: 4.4 m

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)
	3.6 mm	106.0 m (347.77 ft)	42.4 m (131.11 ft)	21.2 m (69.55 ft)	10.6 m (34.78 ft)
	6 mm	164.8 m (540.68 ft)	65.9 m (216.21 ft)	33.0 m (108.27 ft)	16.5 m (54.13 ft)

Intelligence

EPTZ	Yes
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (three functions support classification accurate detection of vehicle human); loitering detection, people gathering, parking detection
Smart Object Detection	Smart abandoned object; smart missing object
SMD 3.0	Less false alarm, longer detection distance

AI SSA	Yes
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority optimization snapshot); face angle filter; optimization time setting.
People Counting	Tripwire people counting, generating exporting report (/week/month/year); people counting in queue management; generating exporting report (/week/month); 4 rules be set for tripwire, people counting in queue management.
Heat	Yes
Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type color, . Human body attributes: gender, top/bottom type color, , umbrella. Face attributes: gender, age, expressions, glasses, face mask beard.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction merging to event videos
Smart Sound Detection	Yes

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by stream)
Smart Codec	Smart H.265+; Smart H.264+
AI Coding	AI H.265; AI H.264
Video Frame Rate	Main stream: 3840 × 2160@(1–25/30 fps) stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–10 fps) * values above are . frame rates of stream; for multiple streams, values will be subjected to total encoding capacity.
Stream Capability	4 streams
Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2560 × 1440; 2048 × 1535; 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–13568 kbps
/Night	Auto(ICR)/Color/B/W
BLC	Yes
	Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; ; street lamp; outdoor; ; regional custom
Gain Control	Auto

Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution lower)
Mirror	Yes
Privacy Masking	8 areas

Audio

Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723

Alarm

Alarm Event	No SD ; SD full; SD 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; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in ; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception

Network

Network Port	RJ-45 (10/100 Enhancement Base-T)
SDK API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; ; ; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI;
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD (support . 512 GB);
Browser	IE: IE 9 later Chrome: Chrome 102 later Firefox: Firefox 88 later
Management Software	SmartPSS Lite; ; DMSS
Mobile Client	iOS;Android
Cyber Security	Configuration encryption; trusted execution;Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/ filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation importing of X.509 certification

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/: UL62368-1 & /CSA C22.2 No. 62368-1-14

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)

Alarm Input	1 channel in: wet contact, 5mA 3V–5V DC
Alarm Output	1 channel : wet contact, 300mA 12V DC

Power

Power Supply	12 VDC/PoE (802.)/ePoE
Power Consumption	Basic: 4.1 W (12 VDC); 5.2 W (PoE); . (H.265+ WDR+ Intelligence on+IR on): 6.8 W (12 VDC); 8.8 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)
Storage Humidity	10%–95% (RH), non-condensing
Protection	IP67

Structure

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")
Net Weight	500 g (1.10 lb)
Gross Weight	770 g (1.70 lb)

Ordering Information

Type	Model	Description
8MP Camera	GX-HT728DL-M-AI-AP-28	8MP IR Fixed-focal Eyeball WizMind Network Camera
	GX-HT728DL-M-AI-AP-28	8MP IR Fixed-focal Eyeball WizMind Network Camera
Accessories (Optional)	PFA130-E	Water-proof Junction Box
	PFB205W-E	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFA109	Mount adapter
	PFB220C	Ceiling Mount Bracket
	PFM321D	12 VDC 1 A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory

Accessories

Optional:

PFA130-E
Water-proof
Junction Box

PFB205W-E
Wall Mount
Bracket

PFA152-E
Pole Mount Bracket

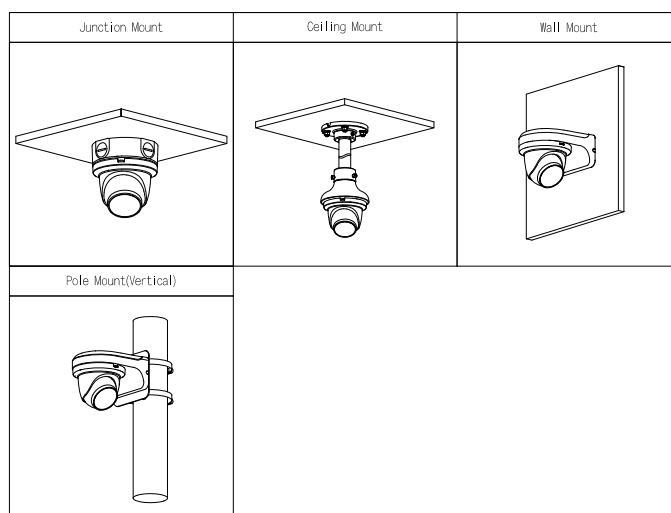**PFA109**
Mount adapter

PFB220C
Ceiling Mount
Bracket

PFM321D
12 VDC 1 A Power
Adapter

PFM900-E
Integrated
Mount Tester

TF-P100
MicroSD
Memory

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

mm [inch]

83.3 [3.28]

99.1 [3.90]

4–4.5 × 5.5 [0.18 × 0.22]

⌀84.0 [⌀3.31]

⌀121.9 [⌀4.80]

3–120°