

COG-AI-50M-BUL-W

4MP AI IR NETWORK BULLET



System Overview

With advanced deep learning algorithms, this AI series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately detect people, vehicles, and non-motor vehicles, faces, and liveness. This series camera has an ultra starlight night version effect, and works with ultra-low streams. It supports dust-proof functions, waterproof functions and vandal-proof functions, complying to the standards of IP67 and IK10.

Functions

People Counting

With deep learning algorithms, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Video Metadata

With deep learning algorithms, Video Metadata technology can detect, track & capture vehicles, non-motor vehicles and people, and select the best images, and extract attributes.

Smart Codec

With advanced scene-adaptive rate control algorithms, smart encoding technology realizes a higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

ePoE

ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring costs.

Face Recognition

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

- 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Max outputs 4MP (2688×1520) @50 fps/60 fps
- H.264&H.265 coding, high compression ration · Wide dynamic, day/night, 3D noise reduction, AWB, HLC, BLC
- ROI, SVC, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- With deep learning algorithm, it supports people counting, face recognition, perimeter protection etc
- 24V AC/PoE/12V DC power support
- Five streams for three-channel HD video
- IP67, IK10 protection grade



Perimeter Protection

With deep learning algorithms, Perimeter Protection technology can recognize people and vehicles accurately. In restricted areas (such as pedestrian areas and vehicle areas), 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.

Privacy Protection

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

Technical Specification

Camera	
Image Sensor	1/1.8" 4Megapixel progressive CMOS
Effective Pixels	2688 (H) × 1520 (V)
ROM	16 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.001 Lux@F1.2
IR Distance	Distance up to 60m (196.85 ft)
IR On/Off Control	Auto/Manual
IR LEDs Number	4 (IR LEDs)
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

Lens					
Lens Type	Motorized vari-focal				
Mount Type	Module interface				
Focal Length	2.7–12 mm				
Max. Aperture	F1.2				
Field of View	Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)				
Iris Type	Auto aperture				
Close Focus Distance	W: 1 m (3.28ft) T: 2.5 m (8.20ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	60.1 m (187.19 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)
	T	128.6 m (421.92 ft)	51.4 m (168.64 ft)	25.7 m (84.32 ft)	12.8 m (41.99 ft)

Smart event	
General IVS Analytics	Abandoned object, moving object

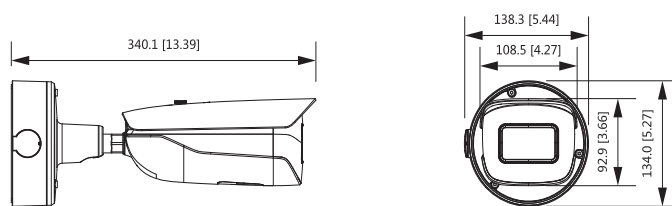
Professional, intelligent	
Perimeter Protection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.
Face Recognition	Face recognition, track, priority, snapshot, face enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard Face matting setting: face, single inch photo Two snapshot strategies: priority snapshot, recognition Face angle filter Priority time setting Management of 5 group face libraries Single person register and person register in batch Face recognition and similarity setting Max supports face contrast in face library with 200,000 faces

Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
People Counting	People counting (count the entry number, exit number and pass number), display and output daily/monthly/annual statistics, No. in area
Intelligent 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
Smart Codec	Yes
Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) sub stream 1: 704 × 576 (1–25/30 fps) sub stream 2: 1920 × 1080 (1–25/30 fps) sub stream 3: 1920 × 1080 (1–25/30 fps) sub stream 4: 704 × 576 (1–25/30 fps)
Stream Capability	5 streams
Resolution	4M (2688 × 1520), 3M (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: 32–10240 kbps H.265: 12–10240 kbps
Day/Night	ICR switch
BLC	Yes
WDR	140 dB
White Balance	Auto/aatural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(Roi)	Yes (4 areas)
Electronic Image Stabilization(EIS)	Yes
Smart IR	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution or below.)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Audio Compression	G.711a; G.711Mu; G726; AAC; G.723
Network	
Network	RJ-45 (10/100/1000 Base-T)
Protocol	HTTP; Https; 8021.x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/IPv6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec;Bonjour

Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P
Scene self-adaptation	Yes
User/Host	20
Edge Storage	FTP; Micro SD card (256 G); NAS; SFTP
Browser	IE: Versions later than IE9 Google: Versions later than Chrome 42 Firefox: Versions later than Firefox 48.0.2
Management Software	Smart PSS, DSS PRO, NVR, IVSS, DMSS
Mobile Phone	IOS, Android

Dimensions (mm/inch)



Certification

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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Port

RS-485	1 (Bit rate: 1200 bps–115200 bps)
Audio Input	Audio Interface: 1/1 channel In/Out
Audio Output	
Alarm Input	3 channel In: 5mA 5V DC
Alarm Output	2 channel Out: 1000mA 30V DC/500mA 50V AC

Power

Power Supply	12V DC/24V AC/POE
Power Consumption	<17.3W

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)
Ingress Protection	IP67, IK10

Structure

Casing	Metal + Plastic
Dimensions	340.1 mm × 108.5 mm × 92.9 mm (13.39" × 4.27" × 3.66") (L × W × H)
Net Weight	1600g (3.53 lb)
Gross Weight	2400g (5.29 lb)