VIZIONTECH

VTU-5MP-B-IR-0735-ADV-BS

5MP IR Vari-focal Bullet WizMind Network Camera



Launched by Viziontech Technology, BS series 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, provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, BS Series network camera offers a

variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata,smart sound detection,face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing Al-Powered Image technology and has the Deeplight night vision effect. The camera is dust-proof, water-proof 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.

Perimeter Protection

With deep learning algorithm, Perimeter Protection technologycan recognize human and vehicle accurately. In restricted area (suchas pedestrian area and vehicle area), 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.

Face Detection

Face Detection technology can detect the face in the image. Withdeep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Smart Sound Detection

With deep learning algorithms, Smart Sound Detection technology can detect and identify the sound of screams, glassbreaking, and more.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5MP (2960×1668) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 120 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, 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, and people counting, etc.
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- SMD 3.0.



People Counting

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

Video Metadata

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

Cyber Security

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, IK10, Wide 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical	Specificati	on				[Face detection; track; snapshot; snapshot optimization;
Technical Specification								optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time
Image Sensor		1/2.7" CMOS					Face Detection	
Max. Resolution		2960 (H) × 1668 (V)					snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.	
ROM		4 GB				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 in area and queue management.	
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Heat Map	Yes
Min. Illumination		0.0009 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					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 and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
S/N Ratio	S/N Ratio		>56 dB					
Illumination	Illumination Distance		Up to 120 m (393.70 ft) (IR)					
Illuminator On/Off Control		Auto; Zoomprio; Manual						
Illuminator Number		4 (IR LED)						
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Lens							Smart Sound Detection	Yes
Lens Type		Motorized vari-focal					Video	
Lens Mount		Module					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Focal Length		7 mm–35 mm					Smart Codec	Smart H.265+; Smart H.264+
Max. Aperture		F1.6					AI Coding	AI H.265; AI H.264
Field of View		H: 31°-11°; V: 17°-6°; D: 36°-13°					Video Frame Rate	Main stream: $2960 \times 1668@(1-25/30 \text{ fps})$ Sub stream: $D1@(1-25/30 \text{ fps})$ Third stream: $1080p@(1-25/30 \text{ fps})$ Fourth stream: $720p@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Iris Control Close Focus Distance Lens		Auto 1.5 m (4.92 ft) Detect Observe Recognize Identify						
	W	214 m	86 m	43 m	21.4 m		Stream Capability	4 streams
		(702.1 ft) 573 m	(282.152 ft) 229.1 m	(141.08 ft) 114.6 m	(70.21 ft) 57.3 m			5M (2960 × 1668); 5M (2880 × 1620); 4M (2688 × 1520);
DORI Distance		(1879.92 ft) (751.64 ft) (375.66 ft) (187.99 ft) ect, Observe, Recognize, Identify) is a standard system					Resolution	3.6M (2560 × 1440); 3M (2048 × 1536); 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)
	video to dist	N-62676-4) for defining the ability of a person viewing the deo to distinguish persons or objects within a covered area. The imbers in this table do not reflect intelligent function distances. In intelligent function distances, refer to installation and immissioning manual/project design tool.					Bit Rate Control	CBR/VBR
	For intelliger						Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–11776 kbps
Intelligence						Day/Night	Auto(ICR)/Color/B/W	
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					BLC	Yes
							HLC	Yes
Smart Object Detection		Smart abandoned object; smart missing object					WDR	120 dB
SMD		SMD 3.0					Scene Self-adaptation (SSA)	Yes
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom

Gain Control

Noise Reduction

Auto

3D NR

motor vehicles, and search through live and recorded

videos to quickly locate targets.

Yes

AI SSA

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Motion Detection	OFF/ON (4 areas, rectangular)					
Region of Interest (RoI)	Yes (4 areas)					
Image Stabilization	Electronic Image Stabilization (EIS)					
Defog	Yes					
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and 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 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; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception; defocus detection					
Network						
Network Port	RJ-45 (10/100 Enhancement Base-T)					
SDK and API	Yes					
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					
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI;					
User/Host	20 (Total bandwidth: 80 M)					
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS					
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later					
Management Software	VIZIONTECH VMS					
Mobile Client	iOS; Android					
Cyber Security	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					
ANPR						
License plate detection abilty	Number plate detection rate > 95% during the day and > 80% at night, up to 200km/h (In installation and lighting conditions, it is recommended to combine software)					
Port						
Audio Input	1 channel (RCA port)					
Audio Output	1 channel (RCA port)					
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC					

1 channel out: wet contact, 300mA 12V DC

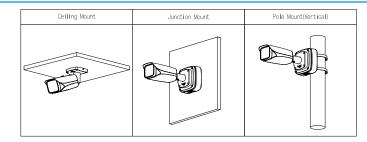
Alarm Output

Power Supply	12 VDC/PoE (802.3af)/ePoE
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.
Power Consumption	Basic: 3.6 W (12 VDC); 4.7 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 10.4 W (12 VDC); 13.0 W (PoE)
Environment	
Operating Temperature	-30 °C to +60 °C (-22 °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; IK10
Structure	
Casing Material	Metal
Product Dimensions	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74") (L × W × H)
Net Weight	1.13 kg (2.49 lb)
Gross Weight	1.68 kg (3.70 lb)

Power

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Dimensions (mm[inch])

