

BL-855P48D-S8-AD | ZKBio Sense Series

5 MP Smart Hybrid Light Active Deterrence Motorized Vari-focal Bullet IP Camera



Human | Vehicle



Target Counting



Line Crossing



Area Detection



Motion Detection



Object Left/Lost



Active Deterrence

- 1/2.7" 5 MP CMOS Sensor
- H.265 dual streams encoding
- High-quality optical lens: 2.8 to 12 mm
- 80 m IR / 30 m white light effective range
- Smart hybrid light (white light and IR)
- Active Deterrence Function
 - Strobe light (red and blue)
 - Audio alert (embedded speaker)
- 120 dB True WDR
- Built-in speaker and microphone
- Built-in micro-SD card slot (support max. 256 GB)
- Embedded intelligent classification algorithm based on computer vision technology
- Multiple intelligent video analytic features supported
- Support multiple browsers web client, and compatible with ZKBio CVSecurity
- Remote viewing with mobile application and platform software
- Lightning protection up to 6 KV
- Metal casing design and reached IP67 protection rating standard for waterproof and dust proof

Product Overview

ZKBio Sense series active deterrence IP cameras are the front-end cameras of intelligent video surveillance solution released by ZKTeco based on the Deep-Learning algorithm and Computer Vision technology.

Using an advanced and powerful CPU, coupled with the embedded intelligent classification algorithm, ZKBio Sense series active deterrence IP cameras can accurately detect and recognize 3 key types of targets: humans, vehicles and objects. Meanwhile, they can effectively filter out objects to avoid false alarms. More importantly, the series IP cameras feature smart hybrid light, red / blue strobe light, and audio alert to provide an active deterrent warning.

ZKBio Sense series active deterrence IP cameras greatly improve the efficiency and safety of the entire video surveillance system, which can be widely used in different scenarios, such as smart school, office, industrial park, community, etc.

Core Features

Active Deterrence

ZKBio Sense series active deterrence IP cameras support active deterrence with built-in strobe light and speaker to warn intruders off. With the smart hybrid light, ZKBio Sense IP Cameras offer colorful video images for alarm triggering events.

IVA (Intelligent Video Analytics)

ZKBio Sense series active deterrence IP cameras support multiple intelligent video analytic functions: Target Counting, Object Lost/Left, Line Crossing, Area Detection, and Smart Motion Detection, which are based on human and vehicle targets classification.

H.265 HEVC

H.265 is an evolutionary optimization of the traditional H.264, it includes a series of encoding strategy such as ROI, smart 2D/3D noise reduction, etc. Delivering high quality video with up to 70% lower bandwidth.

True WDR

Powered by ZKTeco's powerful ISP algorithm and high-quality sensor, ZKBio Sense series active deterrence IP cameras are built-in with true WDR feature, which can present excellent picture images in extreme contrast lighting environments.

ANR

When the network between ZKBio Sense series active deterrence IP cameras and ZKBio Sense series NVRs is interrupted, videos can be automatically saved on the SD card of the front end, and then uploaded to the back end after the network is restored, so as to avoid video loss.

Protection

With precise mechanical and rugged metal casing design, ZKBio Sense series active deterrence IP cameras can stand against water and dust with IP67 protection rating, and support to work in various harsh outdoor environments such as temperature range -30 °C to +60 °C, etc.

Technical Specification

Camera	
Model	BL-855P48D-S8-AD
Image Sensor	1/2.7" 5 MP CMOS Sensor
Max. Resolution	2592 (H) × 1944 (V)
ROM	128 MB
RAM	256 MB
Scanning System	Progressive Scan
Electronic Shutter Speed	1/5 s to 1/100,000 s
Min. Illumination	0.001 Lux @ F1.4 to 2.8 (AGC on, Color) 0 Lux (IR on, B & W)
S/N Ratio	> 52 dB
IR Range	80 m
White Light Range	30 m
Illuminator On/Off Control	Auto / Manual
Smart Hybrid Light	4 × IR / White Light LED
Strobe Light (Active Deterrence Function)	1 × Red / Blue Strobe LED
Smart IR	Support
Angle Adjustment for Installation	Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°
TV System	PAL / NTSC
Image Settings	Trigger mode, Brightness, Contrast, Saturation, Hue, Sharpness, AGC, White balance, Gamma, Backlight mode, adjustable by platform software or web browser
Software Reset Default	Support
General Function	Heartbeat, Mirror, Privacy mask, Log, Password reset
Lens	
Lens Type	Motorized vari-focal
Lens Mount	M22
Mount Type	Board-in
Focal Length	2.8 to 12 mm
Max. Aperture	F1.4 to 2.8
Optical Zoom	4 X
Field of View	FOV: 38° to 98° Horizontal: 108° to 33° Vertical: 57° to 18° Diagonal: 130° to 38°
Iris Type	Motorized

Close Focus Distance	2 m				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	Wide	63.2 m	29.1 m	16.0 m	8.0 m
	Telephoto	125.6 m	57.7 m	26.3 m	12.5 m
Video					
Video Compression	H.265 / H.264				
Resolution	5 MP (2592 × 1944) / 4 MP (2560 × 1440) / 2 MP (1920 × 1080) / 1.3 MP (1280 × 960) / 720 P (1280 × 720)				
Max Video Frame Rate	Main stream:	50 Hz (PAL): 25 fps (2592 × 1944, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz (NTSC): 30 fps (2592 × 1944, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)			
	Sub stream:	50 Hz (PAL): 25 fps (704 × 576, 640 × 480, 640 × 360) 60 Hz (NTSC): 30 fps (704 × 576, 640 × 480, 640 × 360)			
	Third stream:	N/A			
Video Stream Capability	Dual streams				
Bit Rate Control	CBR / VBR				
Video Bit Rate	H.264: 896 Kbps to 8 Mbps H.265: 1024 Kbps to 8 Mbps				
Day / Night	Auto (ICR) / Color / B & W				
BLC	Support				
HLC	Support				
WDR	120 dB True WDR				
Scene Self-adaptation	Support				
White Balance	Auto, Custom, Locked, Incandescent lamp, Warm light, Natural light, Fluorescent lamp				
Gain Control	Low, Mid low, Mid, Mid high, High				
Noise Reduction	2D / 3D NR				
Motion Detection	Smart / Ordinary (4 areas)				
Region of Interest (ROI)	Support (4 areas, Level 1 to 6)				
Defog	N/A				
Mirror	Support				
Image Rotation	0° / 90° / 180° / 270° / Horizontal / Vertical				
Privacy Masking	4 areas				
Corridor Mode	Support				
Digital Zoom	Support				
Anti-flicker	N/A				
Audio					
Built-in MIC	Support				
Speaker	Built-in Speaker (max. 90 dB, 0.5 m)				
Audio Compression	G.711 ulaw				
Environment Noise Filtering	Support				
Audio Sampling Rate	8 kHz / 16 kHz / 32 kHz / 44.1 kHz / 48 kHz				
Audio Bit Rate	64 Kbps (G.711 ulaw)				
Intelligent Video Analytics					
IVA (Perimeter Protection)	Target Counting, Object Lost/Left, Line Crossing, Area Detection, Smart Motion Detection (human and vehicle targets classification)				
Intelligent Search	Support fast retrieval by human and vehicle targets classification				
Intelligent Video	Support fast retrieval by human and vehicle targets classification, playback and backup				

Face Detection

Face Templates	N/A
Face Quality Filtering	N/A
Face Detected Per Frame	N/A
Detection Area	N/A
Detected Face Size	N/A
Capture Response	N/A

Alarm (With Active Deterrence Function)

Basic Alarm Event	SD card error, Network disconnection, IP conflict, Illegal access, Motion detection, Video tampering, External alarm
Smart Alarm Event	Target Counting, Object Lost/Left, Line Crossing, Area Detection, Smart Motion Detection (human and vehicle targets classification)
Alarm Linkage Actions	Upload to memory card / FTP, notify surveillance center, trigger recording, trigger capture, send email

Network

Simultaneous Live View	Up to 15 channels
Network	1 RJ45 10 M / 100 M self-adaptive Ethernet port
SDK and API	Support SDK, API and ONVIF
Cyber Security	Video encryption; firmware encryption; configuration encryption; account lockout; security logs; IP filtering; trusted boot; trusted execution; trusted upgrade; password protection; complicated password; basic and digest authentication for HTTP / HTTPS; TLS; IP address filter; Security Audit Log
Protocol	TCP / IP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, NTP, UPnP, SMTP, IPv4, UDP, SSL / TLS, PPPoE, SNMP, WebSocket
Interoperability	ONVIF Profile S / T / G
User / Host	Up to 256 users can be added. 3 user levels: admin, operator and guest
Network Storage	FTP, Micro-SD card, auto network replenishment (ANR)
Web Browser	IE / Edge / Firefox / Chrome / Safari
Management Software	AntarVis 2.0 / ZKBioSecurity IVS / ZKBioAccess IVS / ZKBio CVSecurity / ZKBio CVAccess
Mobile Application	AntarView Pro+ (iOS & Android)
On-Board Storage	Micro-SD card slot (support max. 256 GB)
Operation System	Windows
P2P Cloud Service	Support

Port

Audio Input	1 (RCA port)
Audio Output	1 (RCA port)
Alarm Input	2 (5 mA 3 V to 5 VDC each)
Alarm Output	1 (300 mA 12 VDC each)

Interface

Reset Button	Support
ANR	Support
USB	N/A
RS485	Support

General**Power**

Power Supply	PoE (IEEE802.3af, Class 3), DC 12V ± 10% reverse polarity protection
Power Consumption	Basic ≤ 3 W (12 VDC); 4.5 W (PoE)
Power Interface	Ø 5.5 mm coaxial power plug

Structure

Casing Material	Aluminium Alloy
Dimensions	279.7 × 90.6 × 89.4 (mm)
Net Weight	1.4 KG
Gross Weight	1.6 KG

Environment

Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F) / Humidity 95% or less (non-condensing)
Storage Conditions	-30 °C to +60 °C (-22 °F to +140 °F) / Humidity 95% or less (non-condensing)
Protection Rating	IP67

Certifications

Certificate	ISO9001, ISO14001, CE, FCC
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Ordering Information

Type	Model	Description
5 MP IP Camera	BL-855P48D-S8-AD	5 MP Smart Hybrid Light Active Deterrence Motorized Vari-focal Bullet IP Camera

Dimension (mm)



Accessories

Optional Bracket	Junction Box	Junction Box with Straight	Junction Box with Bent	Pole Mount	Corner Mount
Model	GB01	GB02	GB03	MT03	MT04
Picture					

