

BS-855P33T-S8-MI-S-HL | ZKBio Sense Series

5 MP Smart Hybrid Light Fixed Lens Bullet IP Camera





Human Vehicle





Perimeter Protection

Smart Hybrid Light

WDR



True WDR

IP67 Water Proof

- 1/2.7" 5 MP CMOS Sensor
- · H.265 Dual streams encoding
- · High-quality optical lens: 6 mm
- 40 m IR / 30 m white light effective range
- Smart hybrid light (white light & IR integrated light)
- 120 dB True WDR
- Built-in PoE & 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
- Remote viewing with mobile application compatible with ZKBio **CVSecurity**
- · 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 smart hybrid light 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.

By using advanced and powerful CPU, coupled with the embedded intelligent classification algorithm, ZKBio Sense series smart hybrid light IP cameras can accurately detect and recognize 3 key types of targets: human, vehicles and objects. Meanwhile, they can effectively filter out other useless objects to avoid false alarms, such as animals, leaves, shadows, and rain, etc.

ZKBio Sense series smart hybrid light 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, public security, etc.

Core Features

Smart Hybrid Light

ZKBio Sense series smart hybrid light IP cameras effectively improve the security at night by integrating ZKTeco's latest Smart Hybrid Light design and intelligent perimeter protection functions. The built-in hybrid integrated optical coupler and intelligent switching logic can greatly reduce unnecessary light pollution in the environment, which is more green and energy-saving.

When no human or vehicle triggers the alarm event, this series of IP cameras operate in IR light mode. Once the alarm is triggered, the cameras will automatically switch to white light to capture color images and videos, and effectively deter intruders. Therefore, the design of smart hybrid light brings more user-friendly and flexible functions to meet different needs in various scenarios.

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.

IVA (Intelligent Video Analytics)

ZKBio Sense series smart hybrid light IP cameras support multiple intelligent video analytic functions: Line Crossing, Area Detection, and Smart Motion Detection, which are based on human and vehicle targets classification.

True WDR

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

ANR

While the connection lost between IPC and NVR, the video will be saved in SD card. The saved video will be auto replenished to NVR when network recovers to avoid any video lost.

Protection

With precise mechanical and rugged metal casing design, the ZKBio Sense Series IP Cameras with IP67 water proof and dust resistant protection rating, and support to work at variety of harsh outdoor environments such as a wide temperature range from -30 $^{\circ}$ C to +60 $^{\circ}$ C, etc.

Technical Specification

Camera			
Model	BS-855P33T-S8-MI-S-HL		
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 @ F1.3 (AGC on, Color) 0 lux (IR on, B & W)		
S/N Ratio	> 52 dB		
IR Range	40 m		
White Light Range	30 m		
Illuminator On / Off Control	Auto / Manual		
Illuminator Number	4 × IR / White Light integrated 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	Fixed Lens		
Lens Mount	M12		
Mount Type	Board-in		
Focal Length	6 mm		
Max. Aperture	F1.3		

'					
Field of View	FOV: 65° Horizontal: 54° Vertical: 29° Diagonal: 63°				
Iris Control Type		Fixed			
Close Focus Distance	1.5 m				
DODI D'ALL	Lens	Detect	Observe	Recognize	Identify
DORI Distance	6.0 mm	60.0 m	27.0 m	15.0 m	6.7 m
Video					
Video Compression			H.265 / H.264		
Resolution	5 MP (2592 × 1944) / 4 MP (2560 × 1440	0) / 2 MP (1920 × 1080) / 1.3 MP (1280 × 960) / 720 P (1280 × 720)
	Main stream:				80 × 960, 1280 × 720) 280 × 960, 1280 × 720)
Max. Video Frame Rate	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:	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	N/A				
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					

Intelligent Search Support fast retrieval by human and vehicle targets classification Intelligent Video 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 Detected Face Size N/A Capture Response N/A Salarm Search Alarm Network disconnection, IP conflict, Illegal access, Motion detection, Video tampering, External alarm detection, Video tampering, Faternal alarm Smart Alarm Event Target Count, Object Lost / Left, Line Crossing, Area Detection, Smart Motion Detection (human and vehicle targets classification) Alarm Linkage Actions Notify surveillance center, trigger recording, trigger capture, send email Network Simultaneous Live View Up to 15 channels Network 1 R J45 10 M / 100 M self-adaptive Ethernet port SDK and API Support SDK, API and ONNIF 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 / IR, HTTP, HTTPS, FTR, DHCR, DNS, DDNS, RTSP, NTP, UPnR, SMTP, IPv4, UDR, SSL/TLS, PPDE. Interoperability ONVF Profile S / T / G User / Host Network Storage FTP	BS-855P33T-S8-MI-S-HL ZKBio S	serise series		
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Reset Button Support ANR Support USB N/A	Alarm Output	N/A		
ANR Support USB N/A	Interface			
USB N/A	Reset Button	Support		
	ANR	Support		
RS485 N/A	USB	N/A		
	RS485	N/A		

General

Power

Power Supply	PoE (IEEE802.3af, Class 3), DC 12 V ±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	180.80 × 75.30 × 66.20 (mm)			
Net Weight	0.30 KG			
Gross Weight	0.45 KG			
Environment				
Operating Conditions	-30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$)/ Humidity 95% or less (non-condensing)			
Storage Conditions	-30 °C to $+60$ °C (-22 °F to $+140$ °F)/ Humidity 95% or less (non-condensing)			
Ingress Protection Rating	IP67 (waterproof and dustproof)			

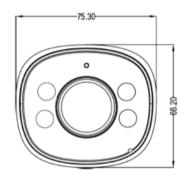
Certifications

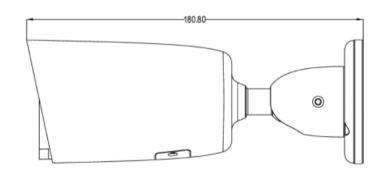
Certificate	ISO9001, ISO14001, CE, FCC
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Ordering Information

Туре	Model	Descripton	
5 MP IP Camera	BS-855P33T-S8-MI-S-HL	5 MP Smart Hybrid Light Fixed Lens Bullet IP Camera	

Dimension (mm)





Accessories

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



