

BS-854F33C-S3-S-HL | ZKBio Sense Series

4 MP Smart Hybrid Light Fixed Lens Bullet IP Camera





Human Vehicle





Perimeter Protection

renimeter Protection

WDR

True WDR

<u>IP67 /)</u>

Smart Hybrid Light

IP67 Water Proof

- 1/3" 4 MP CMOS Sensor
- H.265 Triple 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
- 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 2 key types of targets: humans and vehicles. 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.

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°C to +60°C,etc.

Technical Specification

Camera			
Model	BS-854F33C-S3-S-HL		
Image Sensor	1/3" 4 MP CMOS Sensor		
Max. Resolution	2560 (H) × 1440 (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	$4 \times IR$ / 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	M22		
Mount Type	Board-in		
Focal Length	6 mm		
Max. Aperture	F1.3		
Optical Zoom	N/A		
Field of View	FOV: 65° Horizontal: 54° Vertical: 29° Diagonal: 63°		

Iris Control Type	Fixed				
Close Focus Distance	2 m				
DOD! DI :	Lens	Detect	Observe	Recognize	Identify
DORI Distance	6.0 mm	60.0 m	27.0 m	15.0 m	6.7 m
Video				1	
Video Compression	H.265 / H.264				
Resolution	4 MP (2560 × 1440) / 2 MP (1920 × 1080) / 1.3 MP (1280 × 960) / 720 P (1280 × 720)				
	Main stream: 50 Hz (PAL): 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz (NTSC): 30 fps (2560 × 1440, 1920 × 1080, 1280 × 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: 50 Hz (PAL): 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz (NTSC): 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)				
Video Stream Capability	Triple streams				
Bit Rate Control	CBR / VBR				
Video Bit Rate	H.264: 192 Kbps to 8 Mbps				
Day / Night	H.265: 224 Kbps to 8 Mbps Auto (ICR) / Color / B & W				
BLC					
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)		Sup	port (4 areas, Level 1	to 6)	
Defog			N/A		
Mirror			Support		
Image Rotation		0°/90°/1	80° / 270° / Horizonta	al / Vertical	
Privacy Masking			4 areas		
Corridor Mode	Support				
Digital Zoom	Support				
Anti-flicker			N/A		
Audio					
Built-in MIC			N/A		
Speaker			N/A		
Audio Compression			G.711 ulaw		
Environment Noise Filtering	Support				
Audio Sampling Rate		8 kHz / 16	kHz/32 kHz/44.1 kH	Hz/48 kHz	
Audio Bit Rate			64 Kbps (G.711 ulaw)		
Intelligent Video Analytics					
IVA (Perimeter Protection)	Line Crossing, Area Detection, Smart Motion Detection (human and vehicle targets classification)				

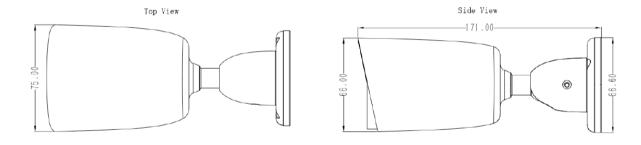
Intelligent Search	Support fast retrieval by human and vehicle targets classification		
Intelligent Video	Support fast retrieval by human and vehicle targets classification, playback and backup		
Face Detection			
Face Templates	N/A		
Face Quality Filtering	N/A		
Face Detected Per Frame	N/A		
Detection Area	N/A		
Detected Face Size	N/A		
Capture Response	N/A		
Alarm			
Basic Alarm Event	Network disconnection, IP conflict, Illegal access, Motion detection, Video tampering, External alarm		
Smart Alarm Event	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 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 log IP filtering; trusted boot; trusted execution; trusted upgrade; password protection; complicate password; basic and digest authentication for HTTP / HTTPS; TLS; IP address filter; Security Audit		
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		
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	N/A		
Operation System	Windows		
P2P Cloud Service	Support		
Port			
Audio Input	N/A		
Audio Output	N/A		
Alarm Input	N/A		
Alarm Output	N/A		
Interface			
Reset Button	N/A		
ANR	N/A		
USB	N/A		
RS485	N/A		
General			
Power			
Power Supply	PoE (IEEE802.3af, Class 3), DC 12 V \pm 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	171.00 × 75.00 × 66.00 (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 $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$) / Humidity 95% or less (non-condensing)			
Ingress Protection Rating	IP67 (waterproof and dustproof)			
Certifications				
Certificate	ISO9001, ISO14001, CE, ECC			

Ordering Information

Туре	Model	Descripton
4 MP IP Camera	BS-854F33C-S3-S-HL	4 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					



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