

DL-854F28B-S3-SE-F ZKBio Sense Lite Series

4MP Motorized Varifocal Dome IP Camera



- 1/3" 4MP CMOS Sensor
- · H.265 triple stream encoding
- High-quality optical lens: 2.8-12mm
- 30m IR effective range
- Built-in PoE
- Built-in micro-SD card slot (support max. 256GB)
- Embedded intelligent classification algorithm based on computer vision technology
- Multiple intelligent video analytic features
- Support multiple browsers web client
- Remote viewing with mobile application and platform software
- · Lightning protection up to 6KV
- IP67 metal casing & IK10

Product Overview

ZKBio Sense Lite Series IP Camera is the front-end of intelligent video surveillance solution released by ZKTeco based on the Deep-Learning algorithm and Computer Vision technology.

By using advanced and powerful CPU, couple with the embedded intelligent classification algorithm based on computer vision technology, the ZKBio Sense Lite IP Cameras can accurately detect and recognize 2 key types of target: human, vehicles, meanwhile effectively filter out the other useless objects such as: animals, leaves, shadows, and rain, etc to reduce the false alarms, and more focusing on the important alarms.

The ZKBio Sense Lite IP Camera can greatly help to improve the efficiency and safety of the entire video surveillance system, can be widely used in different scenario such as smart school, office, industrial park, community, public security, etc.

Core Features

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)

The ZKBio Sense Lite IP Cameras support multiple intelligent video analytic functions: Line Crossing, Area detection, Smart Motion Detection supports human and vehicle targets classification.

ANR (Only for SD card models)

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 Lite Series IP Cameras can stand against water and dust with industrial IP67 rank, and support to work at variety of harsh outdoor environments such as temperature range -30°C to +60 °C,etc.

Technical Specification

Camera					
Model	DL-854F28B-S3-SE-F				
Image Sensor	1/3" 4MP CMOS				
Max.Resolution			2560(H)*1440(V)		
ROM			128MB		
RAM			256MB		
Scanning System			Progressive Scan		
Electronic Shutter Speed			1/5 s to1/100,000 s		
Min. Illumination		0.01Lux	@F1.4~2.8 (AGC on, C 0 lux (IR on, B&W)	Color)	
S/N Ratio			>52dB		
IR Range			30 m		
Illuminator On/Off Control			Auto/Manual		
Illuminator Number			4*IR LED		
Smart IR			Support		
Angle Adjustment for Installation	Pan: 0°-360° Tilt: 0°-90° Rotation: 0°-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	2.8~12mm				
Max. Aperture	F1.4~2.8				
Optical Zoom	4X				
Field of View	FOV: 32°~98° Horizontal: 108°–33° Vertical: 57° –18° Diagonal: 130° –38°				
Iris Type	Fixed				
Close Focus Distance			2 m		
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	Wide	28.8 m	19.6 m	11.0 m	6.0 m
	Telephoto	100.4 m	40.6 m	20.7 m	9.2 m
Video					
Video Compression	H.265 / H.264				
Resolution	4MP(2560*1440) / 3MP(2304*1296) / 1080P (1920*1080) / 1.3MP (1280*960) / 720P (1280*720) / D1 (704*576) / VGA (640*480) / Q720 (640*360)				

	Main stream:	50Hz (PAL): 25fps (2560*1440,1920*1080, 1280*960, 1280*720) 60Hz (NTSC): 30fps (2560*1440,1920*1080, 1280*960, 1280*720)	
Max Video Frame Rate	Sub stream: 50Hz (PAL): 25fps (704*576, 640*480, 640*360) 60Hz (NTSC): 30fps (704*576, 640*480, 640*360)		
	Third stream:	50Hz (PAL): 25fps (1920*1080, 1280*960, 1280*720, 704*576)	
Video Stream Capability		60Hz (NTSC): 30fps (1920*1080, 1280*960, 1280*720, 704*576) Triple streams	
Bit Rate Control		CBR / VBR	
Video Bit Rate		H.264: 192kbps-8Mbps H.265: 224Kbps ~ 8Mbps	
Day/Night		Auto (ICR) / Color / B&W	
BLC		Support	
HLC		Support	
WDR		DWDR	
Scene Self-adaptation		Support	
White Balance	Auto, Custom, Loc	ked, 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 1~6)	
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		N/A	
Audio Compression	G.711ulaw		
Environment Noise Filtering	Support		
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz		
Audio Bit Rate	64 Kbps (G.711ulaw)		
Intelligent Video Analytics			
IVA (Perimeter Protection)	Line Crossing, Area dete	ection, Smart Motion Detection (human and vehicle targets classification)	
Intelligent Search	Embedded intelligent classification algorithm based on computer vision technology		
Intelligent Video	Support fast retrieval by human & 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		

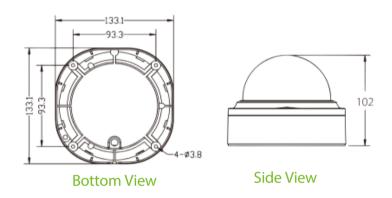
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RS485SupportGeneralPowerPower SupplyPoE (IEEE802.3af,Class 3), DC 12V±10% reverse polarity protectionPower ConsumptionBasic ≤ 3W (12 VDC); 4.5 W (PoE)Power InterfaceØ 5.5 mm coaxial power plugStructureCasing MaterialAluminium AlloyDimensions Φ 102 * 93.3(mm)	ANR	Support		
GeneralPowerPower SupplyPoE (IEEE802.3af,Class 3), DC 12V±10% reverse polarity protectionPower ConsumptionBasic ≤ 3W (12 VDC); 4.5 W (PoE)Power InterfaceØ 5.5 mm coaxial power plugStructureAluminium AlloyCasing MaterialAluminium AlloyDimensions Φ 102 * 93.3(mm)	USB	N/A		
PowerPower SupplyPoE (IEEE802.3af,Class 3), DC 12V±10% reverse polarity protectionPower ConsumptionBasic \leq 3W (12 VDC); 4.5 W (PoE)Power InterfaceØ 5.5 mm coaxial power plugStructureAluminium AlloyCasing MaterialAluminium AlloyDimensions Φ 102 * 93.3(mm)	RS485	Support		
Power SupplyPoE (IEEE802.3af,Class 3), DC 12V \pm 10% reverse polarity protectionPower ConsumptionBasic \leq 3W (12 VDC); 4.5 W (PoE)Power InterfaceØ 5.5 mm coaxial power plugStructureAluminium AlloyCasing MaterialAluminium AlloyDimensions Φ 102 * 93.3(mm)	General			
Power ConsumptionBasic ≤ 3W (12 VDC); 4.5 W (PoE)Power InterfaceØ 5.5 mm coaxial power plugStructureAluminium AlloyCasing MaterialAluminium AlloyDimensionsΦ102 * 93.3(mm)	Power			
Power Interface Ø 5.5 mm coaxial power plug Structure Casing Material Aluminium Alloy Dimensions Φ102 * 93.3(mm)	Power Supply	PoE (IEEE802.3af,Class 3), DC 12V±10% reverse polarity protection		
Structure Casing Material Aluminium Alloy Dimensions Φ102*93.3(mm)	Power Consumption	Basic ≤ 3W (12 VDC); 4.5 W (PoE)		
Casing Material Aluminium Alloy Dimensions Φ102 * 93.3(mm)	Power Interface	Ø 5.5 mm coaxial power plug		
Dimensions Φ 102 * 93.3(mm)	Structure			
	Casing Material	Aluminium Alloy		
	Dimensions	Ф102 * 93.3(mm)		
Net Weight 0.50kg	Net Weight	0.50kg		
Gross Weight 0.70kg	Gross Weight	0.70kg		

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)
Protection Grade	IP67,IK10
Certifications	
Certificates	ISO9001;ISO14001;CE; FCC

Ordering Information

Туре	Model	Descripton
4MP IP Camera	DL-854F28B-S3-SE	4MP Motorized Varifocal Dome IP Camera

Dimension (mm)



Accessories

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





