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 6K V
- IP67 metal casing & IK10

Line Crossing	Area Detection	Motion Detection	IP67 Metal Casing

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℃ to +60 ℃,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, Color) 0 lux (IR on, B&W)
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)

Max Video Frame Rate	Main stream:	50Hz (PAL): 25fps (2560*1440,1920*1080, 1280*960, 1280*720) 60Hz (NTSC): 30fps (2560*1440,1920*1080, 1280*960, 1280*720)
	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) 60Hz (NTSC): 30fps (1920*1080, 1280*960, 1280*720, 704*576)
Video Stream Capability		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, 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 1~6)
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 detection, 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

Alarm

Basic Alarm Event	SD card error, 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	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. 256GB)
Operation System	Windows
P2P Cloud Service	Support

Port

Audio Input	1 (RCA port)
Audio Output	1 (RCA port)
Alarm Input	2 (5 mA 3V–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 ≦ 3W (12 VDC); 4.5 W (PoE)
Power Interface	Ø 5.5 mm coaxial power plug

Structure

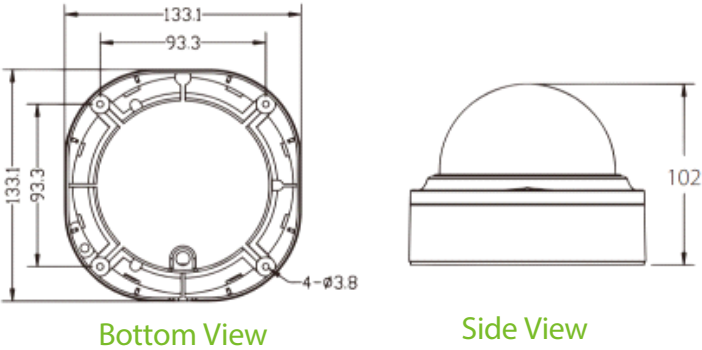|	
Casing Material	Aluminium Alloy
Dimensions	Φ102 * 93.3(mm)
Net Weight	0.50kg
Gross Weight	0.70kg

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

Ordering Information

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

Dimension (mm)

Bottom View   Side View

Accessories

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