E-LPRC500 CAMERA

Introduction

The E-LPRC500 camera are designed to meet the needs of a wide range of applications includinc traffic management, Police, security, parking and tolling in addition to further Intelligent Transport System (ITS) requirements.

Features

· 5MP HD Camera

The E-LPRC500 series is equipped with the industry's advanced 5 million imaging solution, which supports city-level starlight and has good adaptability to night, direct light, backlight andother light scenes. Together with the unique intelligent ISP (image signal processing)algorithm, it can not only meet the allweather recognition needs of license plate recognition, but also provide clearer details of the front of the car and the car logo, which is helpful for better recognition of the algorithm.

· Advanced license plate/vehicle recognition algorithm

The E-LPRC500 series is equipped with ZKTECO's deep learning algorithm-integrated with more than ten years of service experience in the parking field, it adopts advanced deep learning technology in the industry and is equipped with hundreds of millions of on-site sample materials to successfully create a strong algorithm framework in the field of license plate/vehicle recognition.Through deep optimization with hardware, it can effectively solve many rigiddemands in the scene.

- **High-precision vehicle and license plate recognition algorithm:**The mature video vehicle detection technology can identify vehicles running at 0~80kM/H(See Algorithm Specification) without stopping them for card swiping or embedding ground loops. Support the recognition of unlicensed vehicles and feature code comparison Support Video triggering, coil trigger, vehicle capture rate exceeds 99%, recognition rate exceeds 99%. (See Algorithm Specification)
- **7 types of vehicle identification, more than 2100 types of vehicle identification:** can identify vehicle logo (brand), vehicle color and other vehicle structured information, can identify 7 types of vehicles such as cars, SUVs, trucks, etc., while supporting more than 2100 types of vehicle identification, perfectly suitable for scenes that require management/ charging based on vehicle type and model.
- **To prevent misidentification and filter out fake license plates:** The algorithm comprehensively considers the characteristics of vehicles and license plates to effectively avoid the problem of "misidentifying" numerical, character, and graphical content information that is not on the license plate; and filters out and deters the behavior of lawbreakers who use other people's license plates to lift the bar and avoid fees by taking photos with mobile phones and printing license plates.
- **Vehicle event recognition:** Intelligent recognition of complex scene events supports the detection of vehicle retention, vehicle return, vehicle following and other events.
- **Multinational algorithm:** Algorithms support Asia, Central Asia, Middle East, Africa, Europe, the Americas all over the globe; Support algorithm compatibility, through the WEB can be set to recognize the license plate of different countries

Peripheral device linkage management at entrances and exits

- **One-click binding of primary and secondary devices:** The primary camera can bind up to three secondary devices, allowing basic configuration of the secondary devices on the primary device and real-time video viewing of both primary and secondary devices on the same interface.
- **Easy connection:** Just connect to the main device, the auxiliary device can transmit data through the main device channel without connecting to the auxiliary device again
- **Offline identification:** Through the WEB import the black/white list or fixed car list for small parking lot no need software management

All-round development connection support, easy for users to develop secondaril

- **SDK:** Provide SDK for Windows and Linux environments, support development languages such as VB, C # C ++ and so on.
- **APl protocol interface:** Supports API interfaces based on standard protocols such as TCP and HTTp to meet the needs of camera and platform system docking.
- **OpenSDK:** For the secondary development needs of professional customers, a Low-level open platform (OpenSDK) is provided, which supports running customer self-developed programs (User APP) on the camera and facilitates users to flexibly expand functions according to business needs.

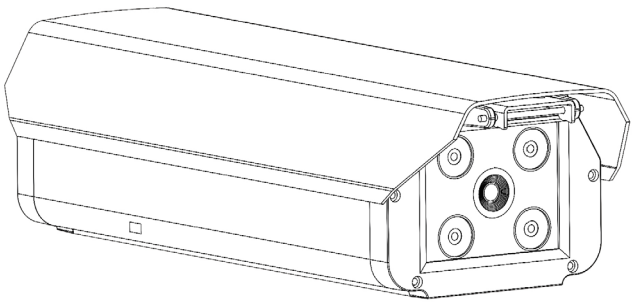
Explication

· Standard

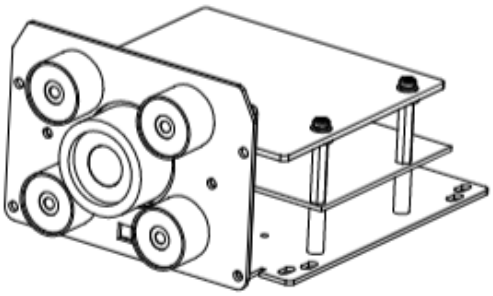
As shown in the figure below, it is equipped with a 15-inch chassis, with sufficient internal space, so it has rich interfaces, indicator lights, buttons, etc, and at the same time, the chassis easy to open, which is more conducive to its installation, debugging and maintenance and realizes more functional expansion.

· Module

Module form without external structure, customers can purchase this form of equipment integrated machine chassis



Standard set



Module set

Specifications

Model	E-LPRC500	
Cate	Item	Detail
Algorithm	License plate capture rate	95%
	Recognize Rate	≥99.9% (Typical Scene + Typical License Plate)
	Car speeds	0-80KM/h
	Recognize speed	Less than 100ms
	Plate type	Over 130 country and region
	Target features	Number\ Color\ Type\ Size
	License plate anticounterfeiting	Abnormal license plate (mobile phone photo and printing) alarm is supported
	Unlicensed vehicles	Support unlicensed vehicles
	License plate whitelist	Support accurate and intelligent fuzzy matching of whitelist license
Image	Basic configuration	Built-in intelligent ISP algorithm, intelligent optimization and dimming, intelligent adaptation to complex scenes
Video/Audio	Video compression standards	H.264/ H.265/ MJPEG
	Resolution	640*360/ 704*576/ 1280*720/ 1920*1080
	Video Bitrate	512Kbps~5000Kbps
	Frame rate	1~25FPS
	Audio coding	G.711/AAC

Protocols	Protocols	SDK/ ONVIF/ HTTP/ RTSP/ TCP/ IP/ UDP/ RS485/ IO/ NTP/ VPN/ FTP/ UPNP
Networking	Local networking	No need for a host computer or server, automatic operational networking between cameras
	Parking lot	Supports the creation of multiple parking lots and scenario management of multiple cameras
	Black and white lists	Work with strategy to meet vehicle hierarchy management
	Complementary camera	Up to 4 auxiliary cameras can be added to the same exit/entry point
	LED Output	Support external LED screen display, output recognition\billing results
	Audio Output	External speakers can be used to broadcast the identification and billing results

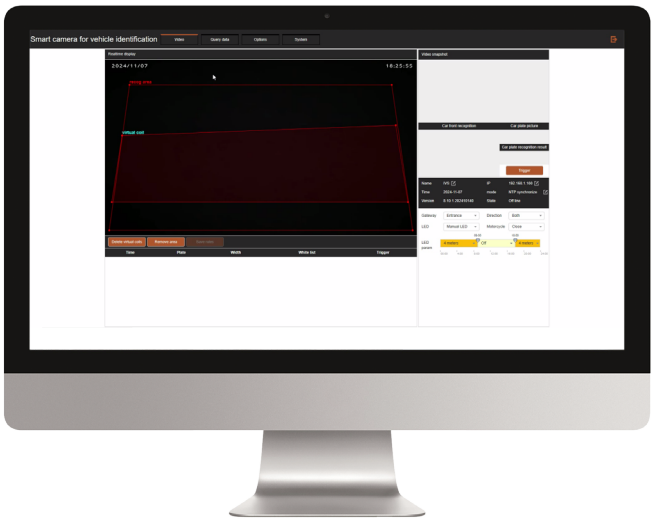
Hardware Info

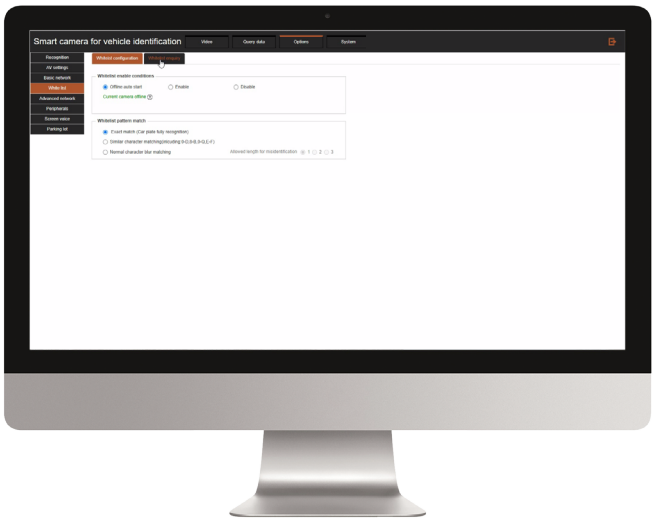
Cate	Item	Integrated	Module
Image	Sensor	5MP CIS	
	Resolution	2880(H) x 1620(V)	
	Low light	0.1LUX color (with fill light)	
	electronic shutter	0-1ms or customized	
	Lens	6mm Fixed Lens	
		Optional 2.8~12mm/ 7~22mm/ 5~50mm Lens	
	Lens interface	M12	
Image Parameters	Image configuration	Brightness, contrast, saturation, image flip, exposure time, etc.	
	Noise reduction	Support 2D/ 3D noise reduction	
	WDR	Support	
Ports/Button	Network	1 * 10/1000Mbps Adaptive RJ45 port	
		1 * 10/100Mbps Adaptive RJ45 port	
	IO Input	4 channels	
	RS485	2 channels	
	TF-card	1 TF card slot, supports up to 256G capacity	
	Bluetooth	Support	
	LCD driver	Optional	
	Voice intercom	Optional	
	Reset	1* RESET Button	
	Status light	Support	
Storage	Storage	32G	

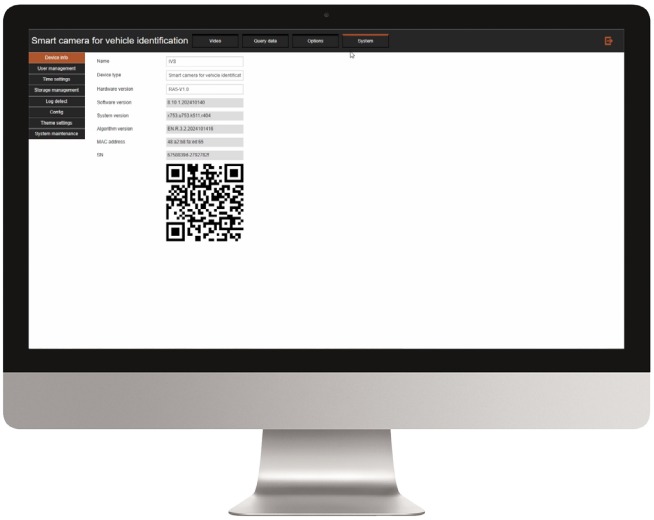
Reliability Parameters	Temperature	-30℃ ~70℃	
	Power supply	12V DC 2A for basic configurations (without speakers, screens and other high power consuming components)	
		12V DC 5A for extended configurations (with speakers, screens and other high-power components)	
	Power consumption	Power consumption ≤ 8W (basic set, including fill light, excluding speakers, screen and other high power consumption components)	
		Power consumption ≤ 55W (extended set with speakers, screen and other high power consumption components)	
	Protection	IP65	...
Structural Parameters	Dimensions(L*W*H)	440mm *144mm*103mm	109mm*149mm *72mm

Multifunction Configuration

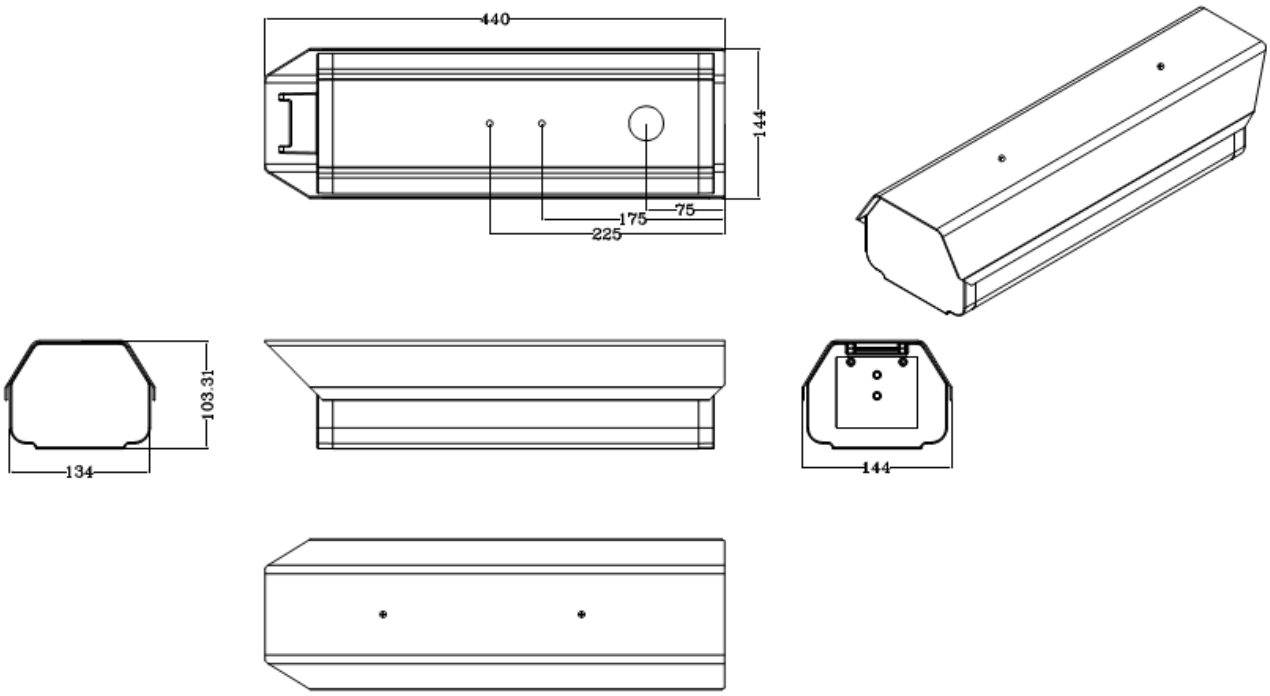
Through the WEB of the camera, it can support the realization of a variety of functions, such as real-time monitoring screen, identification parameter configuration, offline mode, reports and so on

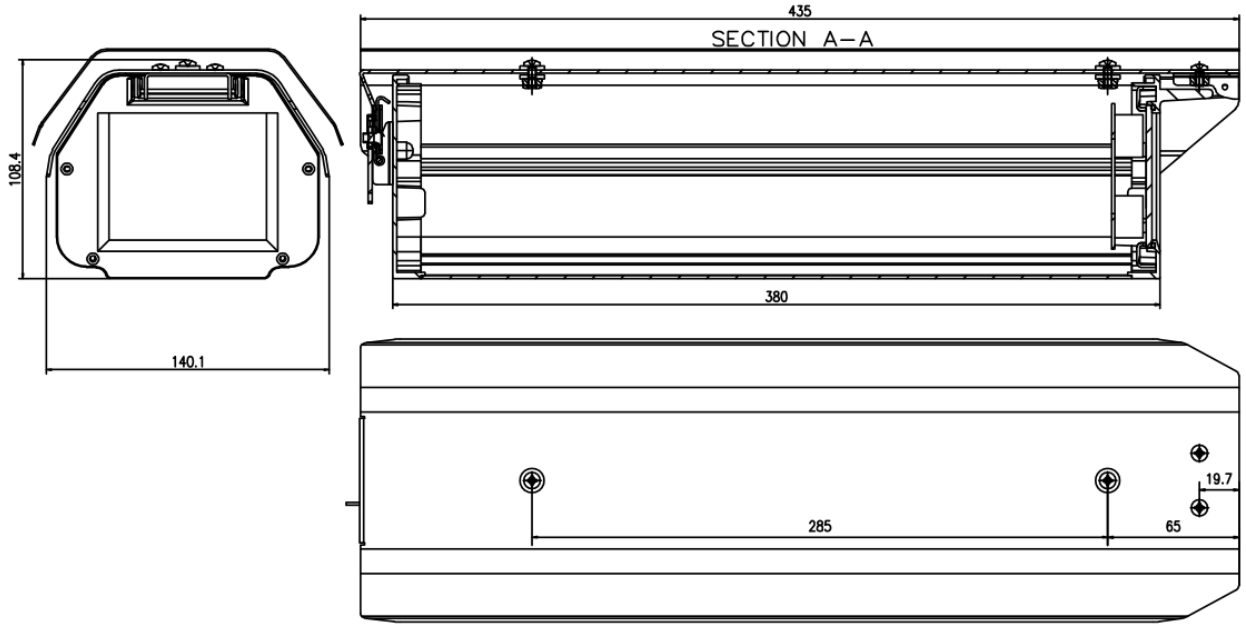


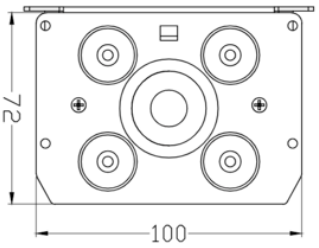


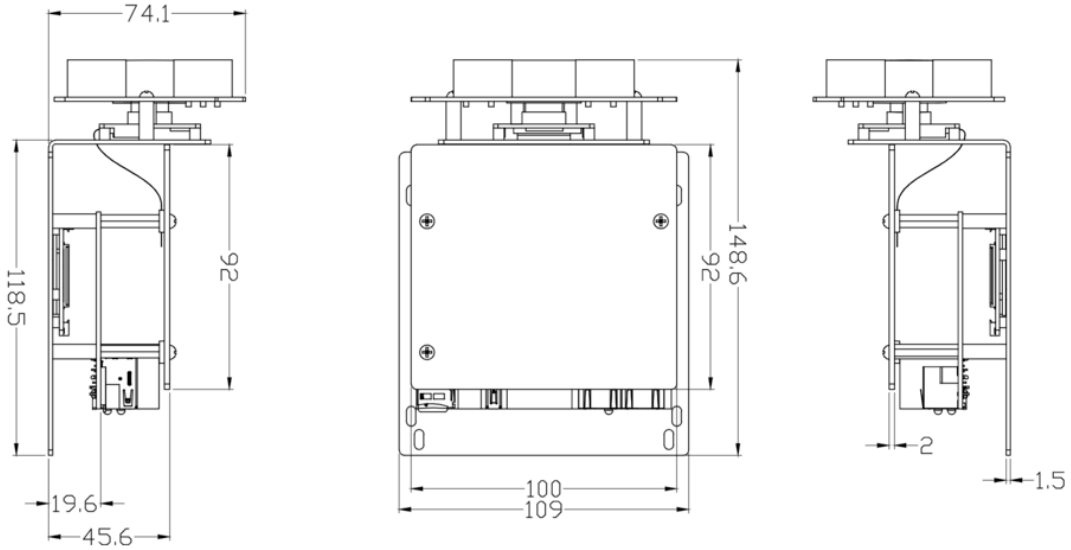


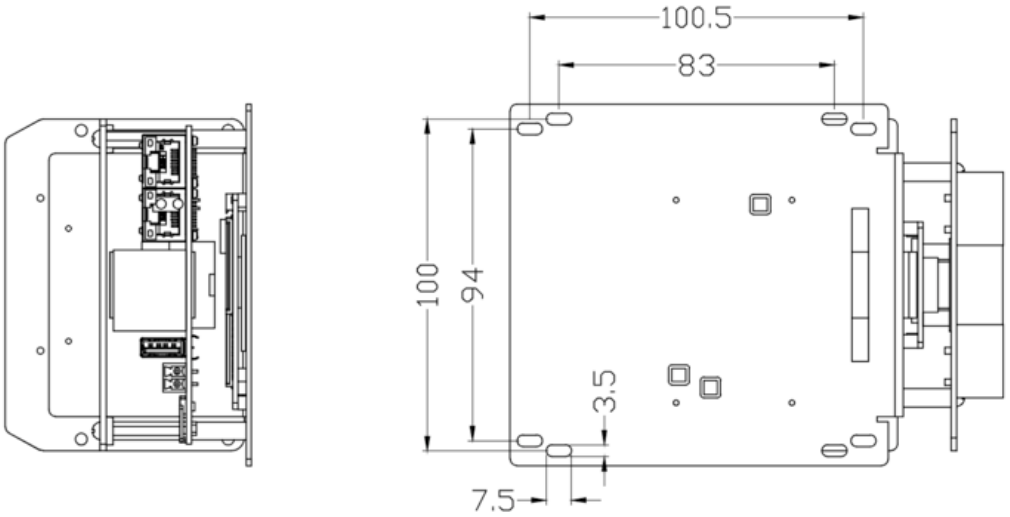
Dimensions

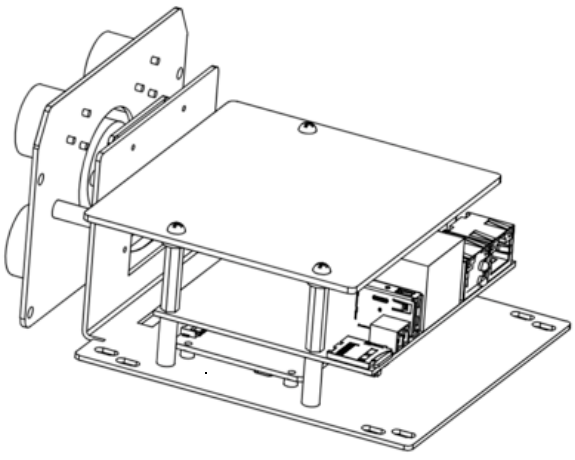

440
144
175
75
225
103.31
134
144


435
SECTION A–A
108.4
140.1
380
19.7
285
65


72
100


74.1
118.5
92
19.6
45.6
148.6
92
100
109
2
1.5


100.5
83
100
94
3.5
7.5



Applications

Intelligent Communities

Intelligent buildings

Office Buildings

Enterprise Factories

Accessory Products

LPR-Fixed Column

LPR-Fill Light

LPR-Display Screen (Optional)

ZKTECO CO.,LTD. www.zkteco.com E-mail: sales@zkteco.com

Copyright©2024 ZKTECO CO., LTD. All rights reserved.