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DEDICATION MAKES PROFESSIONAL

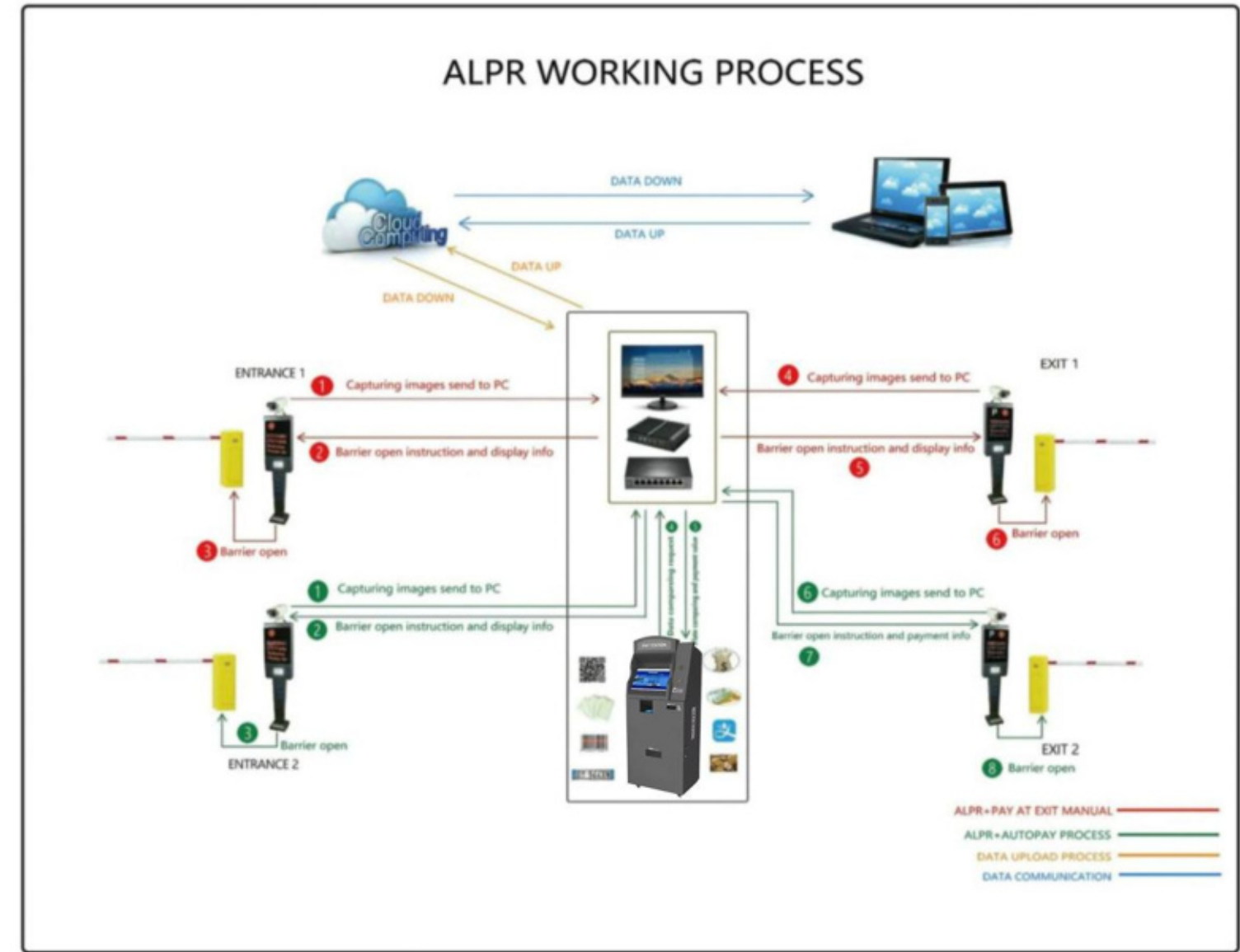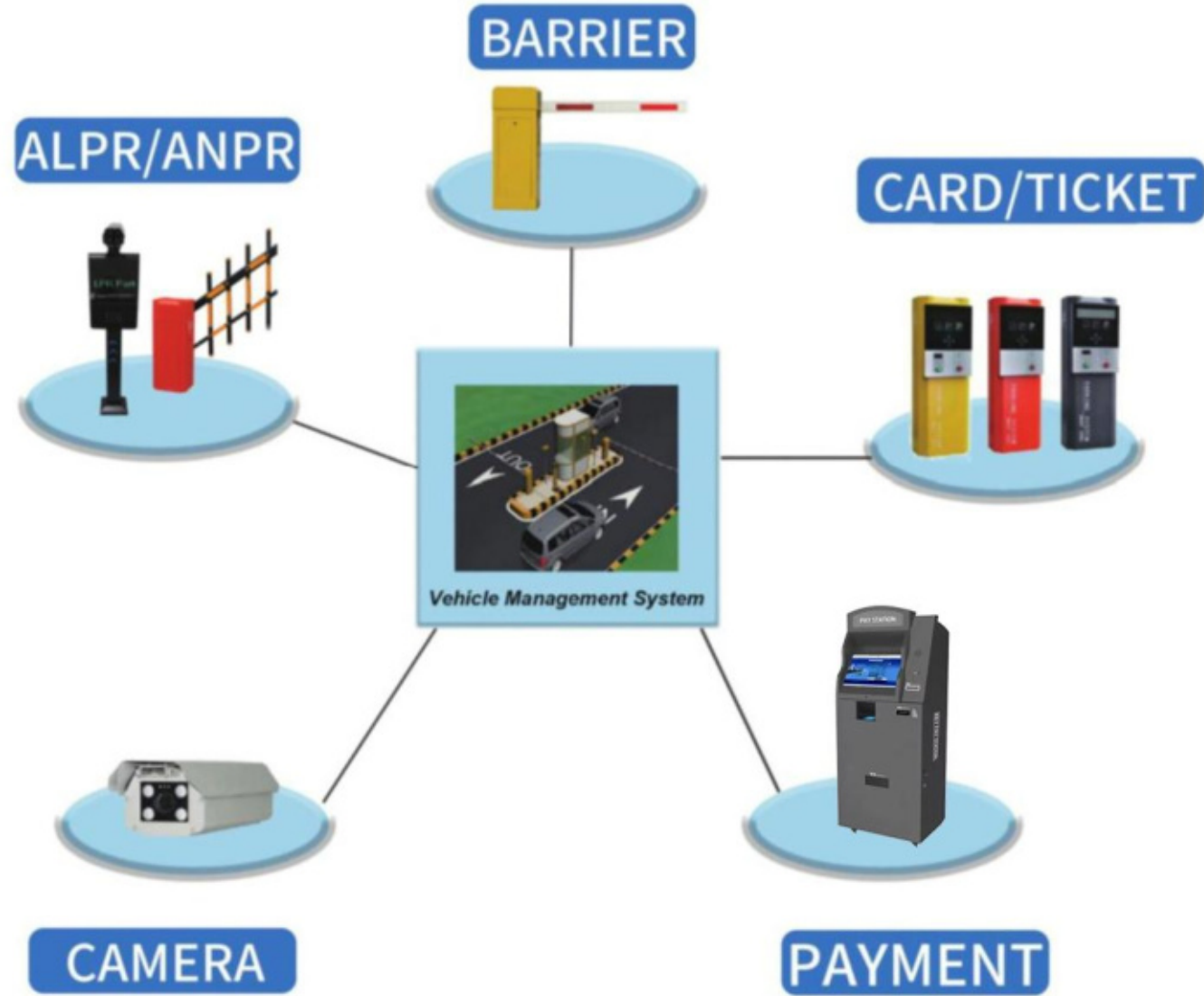## SMART PARKING SYSTEM VEHICLE MANAGEMENT SOLUTION PROVIOER

Company Profile

Shenzhen Karsun Access Technology Co., Ltd is the leading Parking solution provider for vehicle Intelligent parking system, Li–cense plate recognition system,RFID/Ticket parking system,Bluetooth and UHF long distance parking solutions.

Founded in 2009,KARSUN is committed to the development of smart parking systems, continuously analyzing and solving problems in existing requirement and potential demand, and is committed to meeting the new functional requirements in security industry

ALPR/ANPR · BARRIER · CARD/TICKET · CAMERA · PAYMENT

Vehicle Management System

ALPR WORKING PROCESS

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JS–LPR01

JS–LPR02

JS–LPR03

Parameters	
Model	JS–LPR01
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	−25°C ~+70°C

Parameters	
Model	JS–LPR02
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	−25°C ~+70°C

Parameters	
Model	JS–LPR03
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	−25°C ~+70°C

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JS–LPR04

Parameters	
Model	JS–LPR04
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	–25°C ~+70°C

JS–LPR05

Parameters	
Model	JS–LPR05
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	–25°C ~+70°C

JS–LPR06

Parameters	
Model	JS–LPR06
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	–25°C ~+70°C

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JS-LPR07

Parameters	
Model	JS-LPR07
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	−25°C ~+70°C

JS-LPR08

Parameters	
Model	JS-LPR08
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	−25°C ~+70°C

JS-LPR09

Parameters	
Model	JS-LPR09
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	−25°C ~+70°C

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JS–LPR10

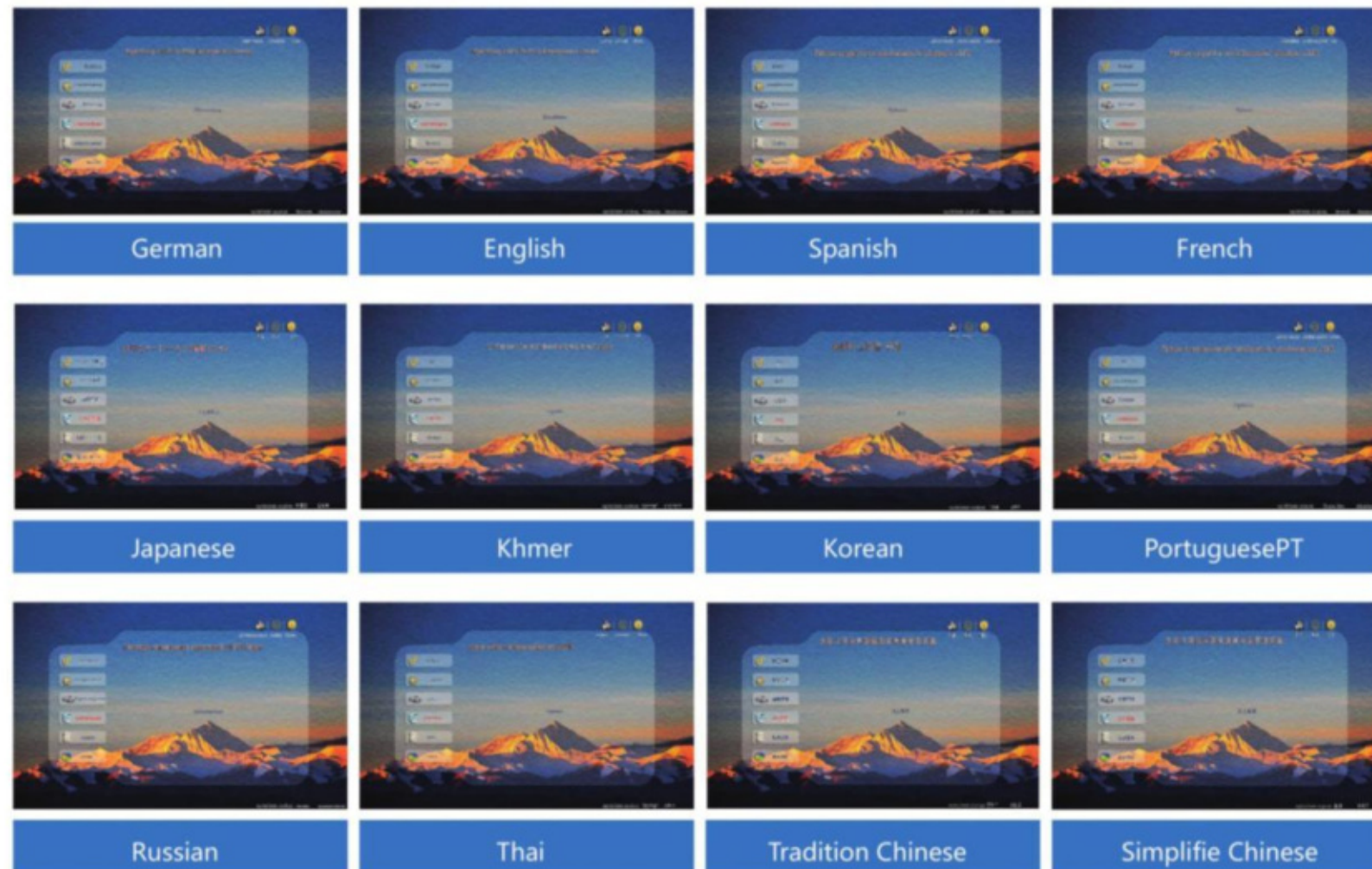| Parameters	
Model	JS–LPR10
Cabinet Material	Iron plate metal 2.0
Housing	Waterproof and Weatherproof IP65
Camera Pixel	1/3 CMOS,2M pixel
Recognition Rate	More than 99.5%
Recognition Speed	0–60Km per hour for parking lot, max support 160km/h
Recognition Distance	3–6M
Communication Interface	TCP/IP
Network	RJ45,100M
Power supply	DC12V
Working temperature	−25°C ~+70°C

Features

License Plate Recognition 128 countries and Support multi countries recognition in meantime

Software functions introduction:

- Entry and Exit parameter settings
- Customize display words in LED display screen
- Payment rules setting(support eight types of payment rules)
- Authorization setting
- Operator and parking profile
- Registration of vehicle number plate
- Renewal/recharge for registered vehicle
- Error correction of vehicle number
- Survelliance of software,view of vehicle image,payment information and support
- Manual input vehicle number(support twenty character of all countries)
- View of vehicle record and operator record
- View of operator charge report,entry&exit vehicle report and parking fee report

Six modules, Setting, Authorization, Vehicle, Surveillance, Record,Report

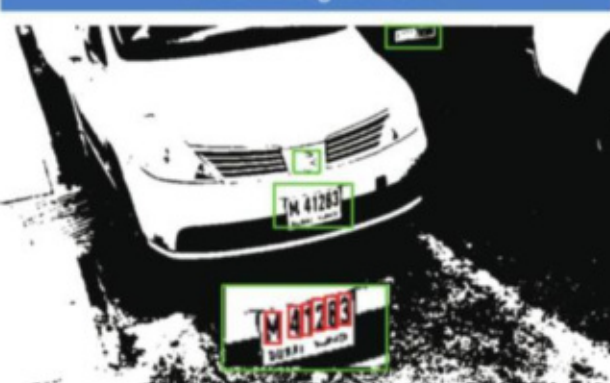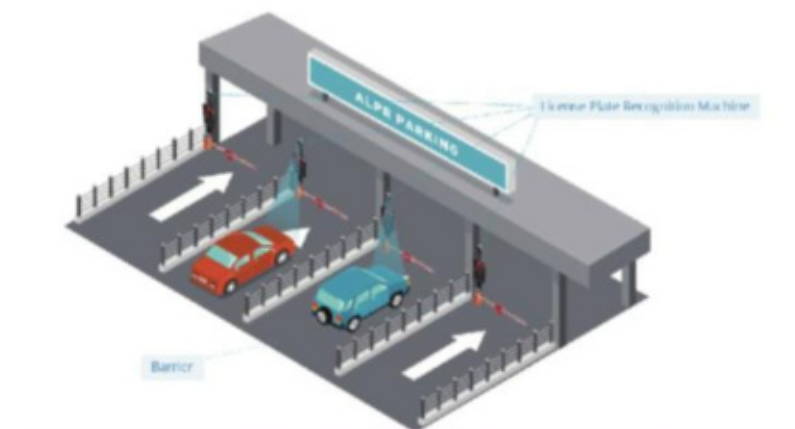| German | English | Spanish | French |
| Japanese | Khmer | Korean | PortuguesePT |
| Russian | Thai | Tradition Chinese | Simplifie Chinese |

Triggers to capture license plate feature figure camera

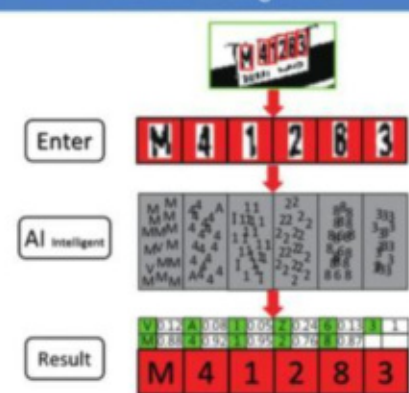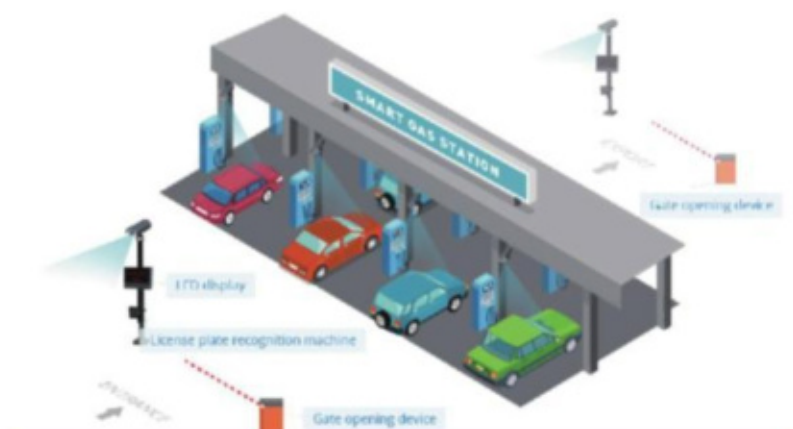Background color filtering, the character area positioning

Character segmentation

Character recognition

Enter

AI Intelligent

Result

ALPR parking

Smart gas station

Intelligent unmanned weighing

Car Maintenance

③ PC data up to Cloud

④ Cloud response back to PC

② Capturing image send to PC

① Car entering by low speed

Entrance

ANPR/ALPR

Gate Control

Open/Close Command
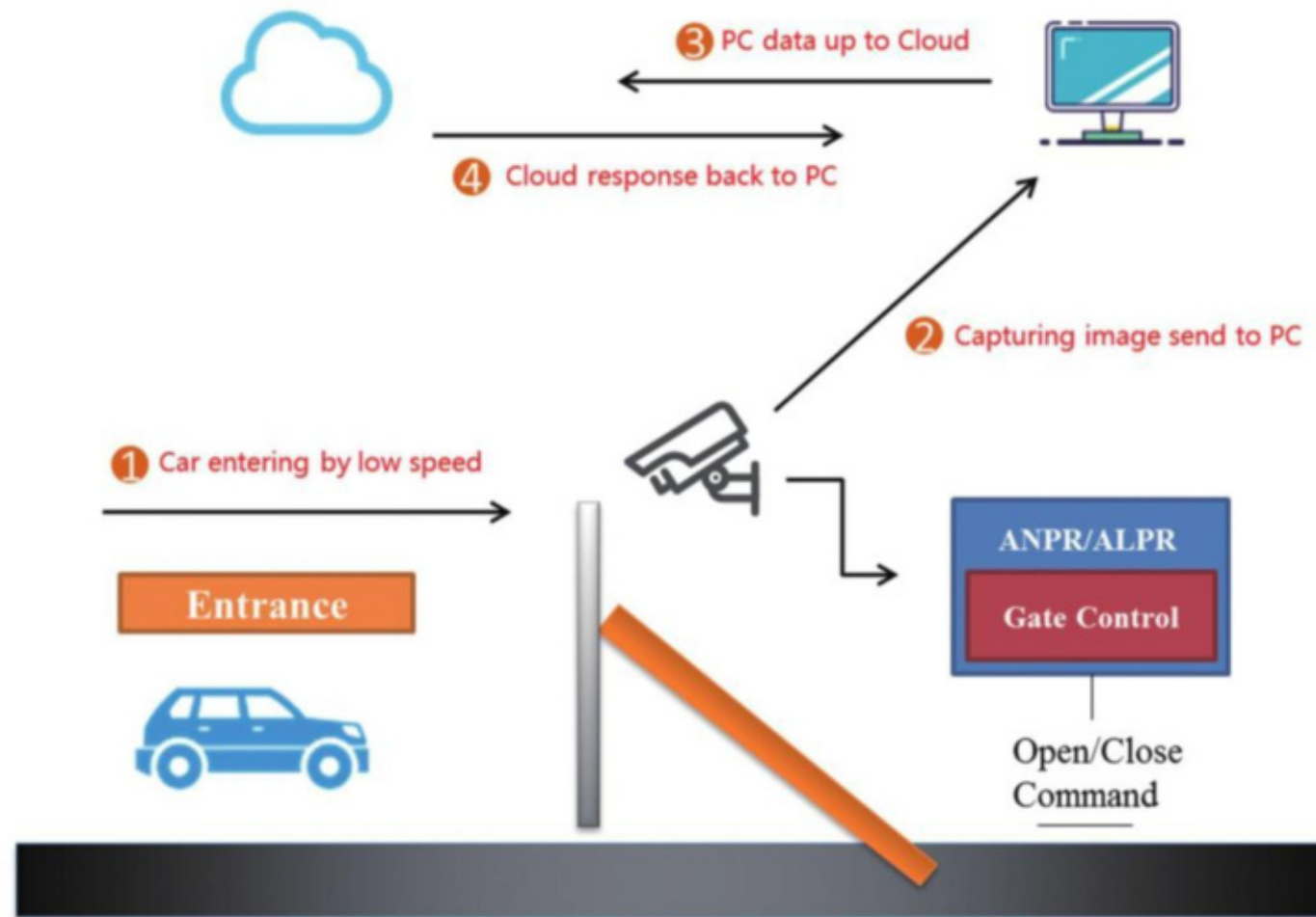
ALPR Software	Client upload data software
Operate System	Windows
Database Type	Microsoft SQL server,MySQL
Transfer Method	Post upload
Data Format	Json
Top Features	Embedded in other systems for docking
	Breakpoint and continued upload
	Configurable multiple cameras
	No dynamic picture, reduce CPU consumption rate

Model No.:JS-HIGHC1

LNG-497

IZA-515

Parameters Description	
Camera	1" 9M HD COMS，Resolution 4096*2160 pix
Image compression method	JPEG
Video Format	Standard H.264 main profile 5.0
HD video resolution	4096*2160，25fps（9 Millon）
Accuracy	Obey to GB/T21255~2007 Motor vehicle speedometer standard Speed < 100km/h,error less than −6km/h～0km/h,Speed ≥100km/h, error less than −6%～0%
Capture rate	≥99%
Numberplate identification type	Various universal license plates at home and abroad
Body color recognition Accuracy	Subtle classification accuracy≥90% Recognition accuracy of 9 common color vehicles ≥70%
Recognizable body color category	Dark, light color The nine body colors that can be recognized include: white, black, red, yellow, gray, blue, green, pink, brown
Model classification	2
Number of captured images	1 pc 1 car, illegal pictures 2 pcs/ car
Record Content	Vehicle picture, license plate number, license plate color, body color, time, location, lane, driving direction, speed, speed limit, etc.
Intelligent terminal management device storage capacity	500G
Mean time between failures(MTBF)	>30000H
Operating temperature	−40℃～+70℃
Working relative humidity	<90%
Working power	AC220V/50Hz

Time: 2019-10-16 9:00:12

High way cross road side

Whether speeding: without

Speed: 120km/h

License plate identification number: JS1688

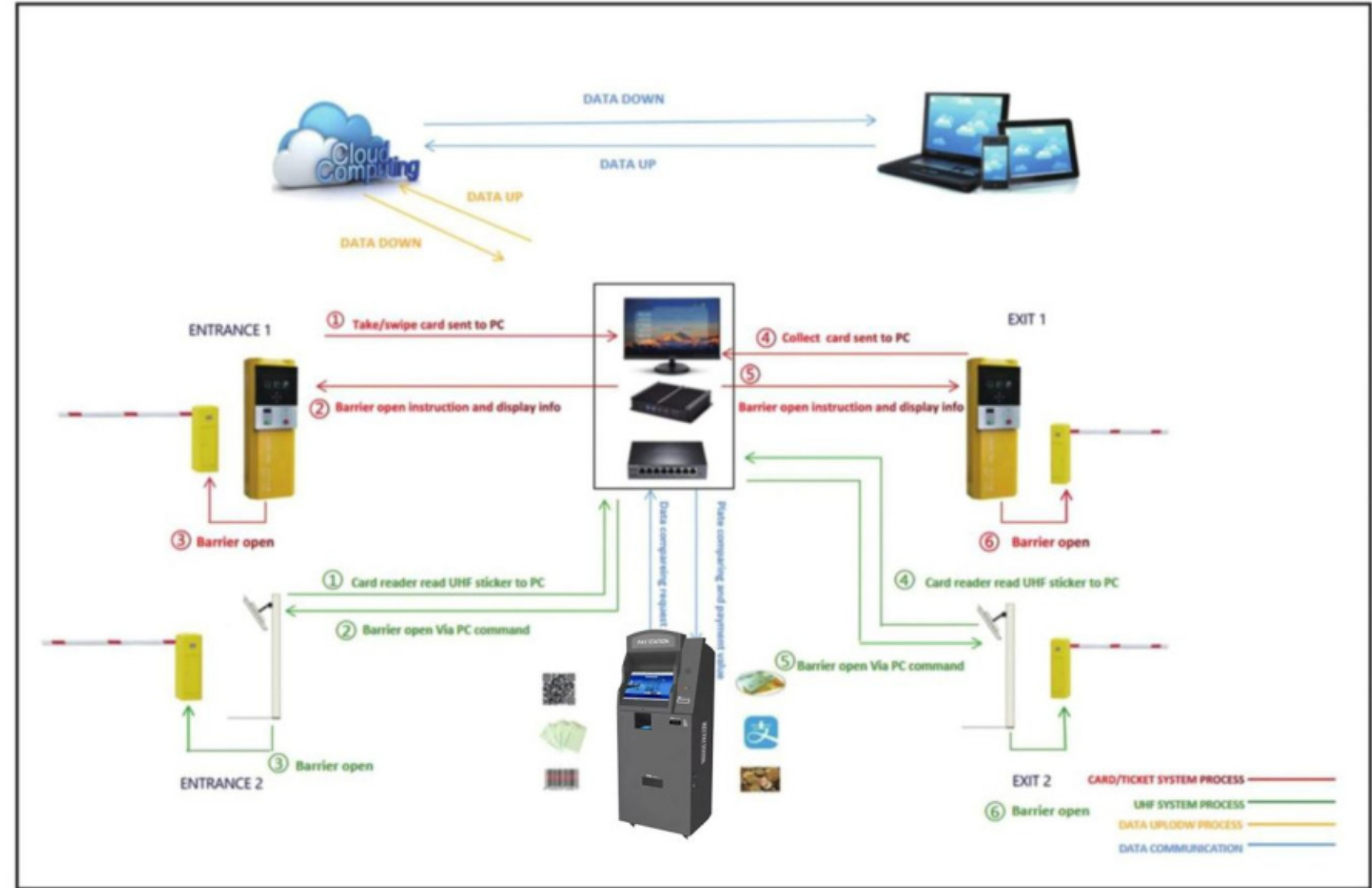High speed capture camera

Indicator light

Radar
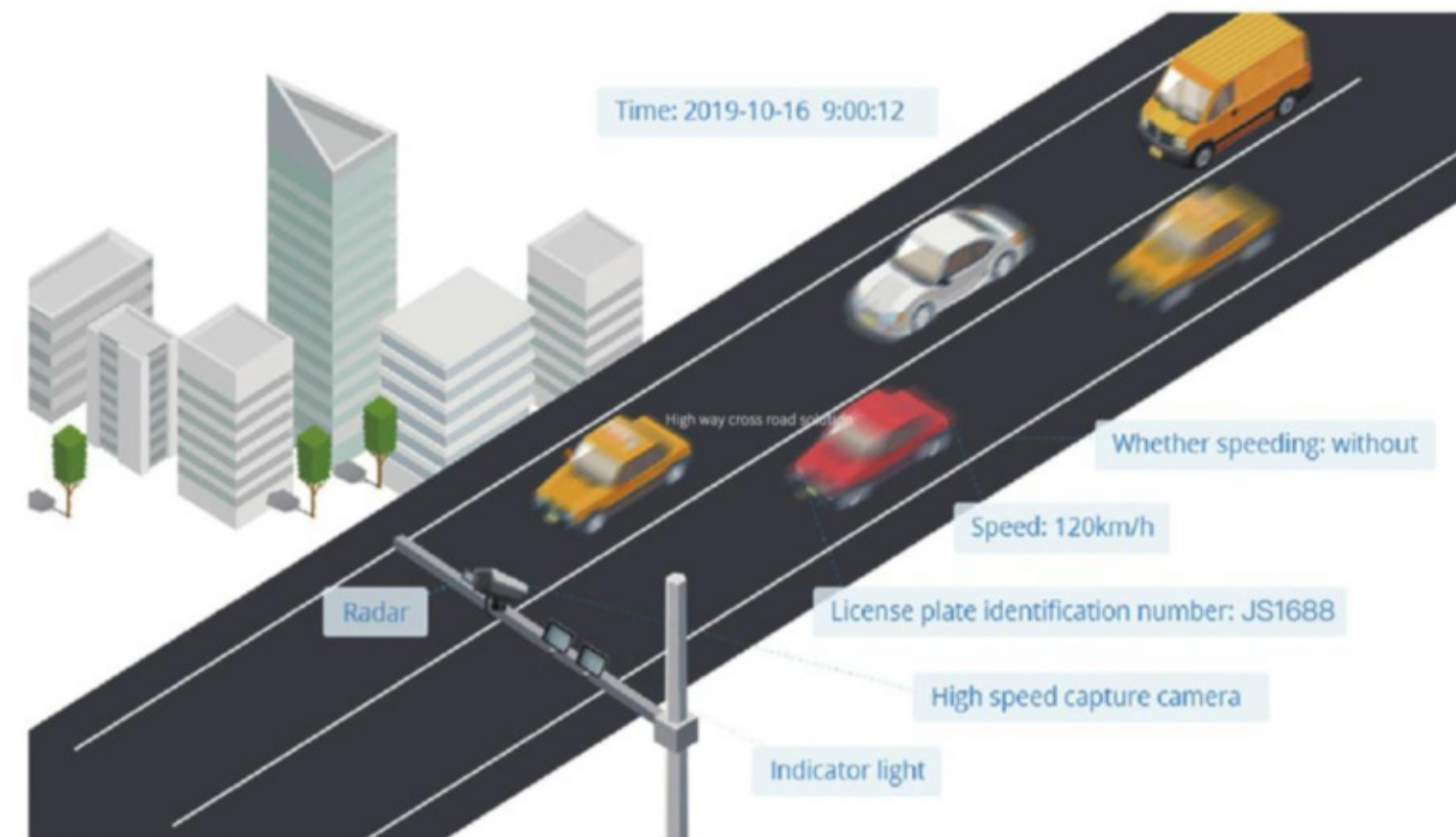
Introduction:

Karsun designed to recognize and record container numbers. It facil–itates and enhances management and operations of modern ports and container depots. JS–CON is an intelligent solution, ideal for today's container transport

Top Features:

- JS–CON system triggers by 4 pairs of infrared sensors, aligned along the lane;

- The system is capable to avoid false trigger by the wind shield and container–type trucks;

- The system is capable to avoid false trigger by the wind shield and contain–er–type trucks;

- The time duration from trigger to image capture≤12ms;

- The system can capture the container numbers, country code and ISO code on the front, rear, both sides of the container. There are 6 images for each container (if it is a 2x20' container, each has 3 images);

- For advanced application that requires high recognition accuracy,JS–CON is configurable to perform multiple image capturing in order

TRADITIONAL PARKING LOT

DATA DOWN

DATA UP

DATA UP

DATA DOWN

ENTRANCE 1

① Take/swipe card sent to PC

④ Collect card sent to PC

EXIT 1

② Barrier open instruction and display info

⑤

Barrier open instruction and display info

③ Barrier open

⑥ Barrier open

① Card reader read UHF sticker to PC

④ Card reader read UHF sticker to PC

② Barrier open Via PC command

⑤ Barrier open Via PC command

③ Barrier open

ENTRANCE 2

EXIT 2

⑥ Barrier open

CARD/TICKET SYSTEM PROCESS

UHF SYSTEM PROCESS

DATA UPLOEW PROCESS

DATA COMMUNICATION

JS-TBCEO1

JS-TBCEO1D

JS-TBCE02

JS-TBCE03

JS-TBCE04

JS-TBCE05

Specifications	
Applications	TCP.IP ports, Power supply ports
Cabinet material	Iron plate metal 2.0
Display size	64*16
Working temperature	-40°C~80°C
Character Color	Grey,Yellow,Red
Support cards	IC card,ID card,RFID card ect.
· RFID card system	· Ticket system
· Main control board	· Main control board
· LED display	· LED display
· Card dispenser(Entry)	· Automatic printer(Entry)
· Card collector(Exit)	· Bar code scanner(Exit)
· Card reader	· Card reader(optional)

Features

The software can be applied to different systems, such as: cred it card system, paper ticket soft system, Bluetooth system, UHF system

Software function introduction:

- Can log in to see the operator handover

- Can set the number of days and paths for automatically saving pictures and data and automatically print tickets

- Payment rules setting (supports 4 car tpyes)

- Files of permissions, operator and parking lot management

- Card management(Card detection, issuance, extension, recharge, loss reporting, recovery,recycle, replacement, file processing, departure)

- Real time monitoring(Vehicle presence, in and out conditions and charges)

- View vehicle presence, entry and exit management information records

- View of operator charge report,entry&exit vehicle report and parking fee report
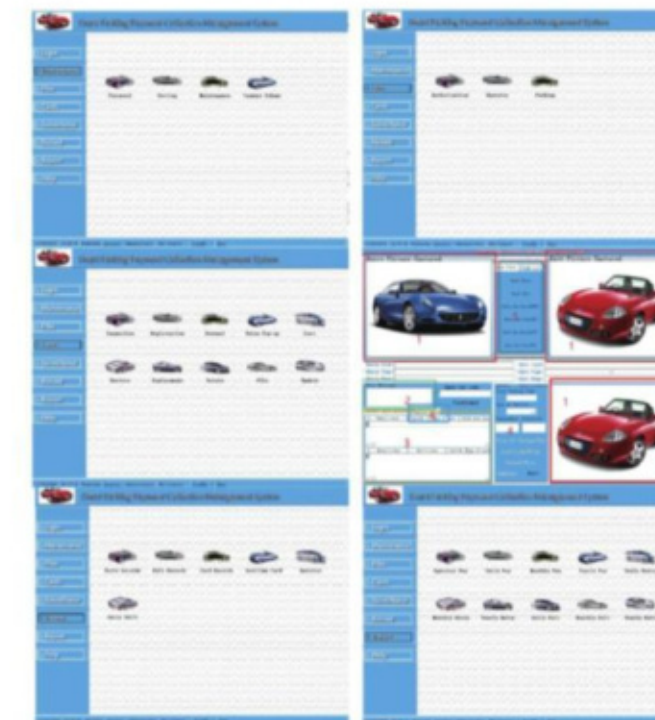
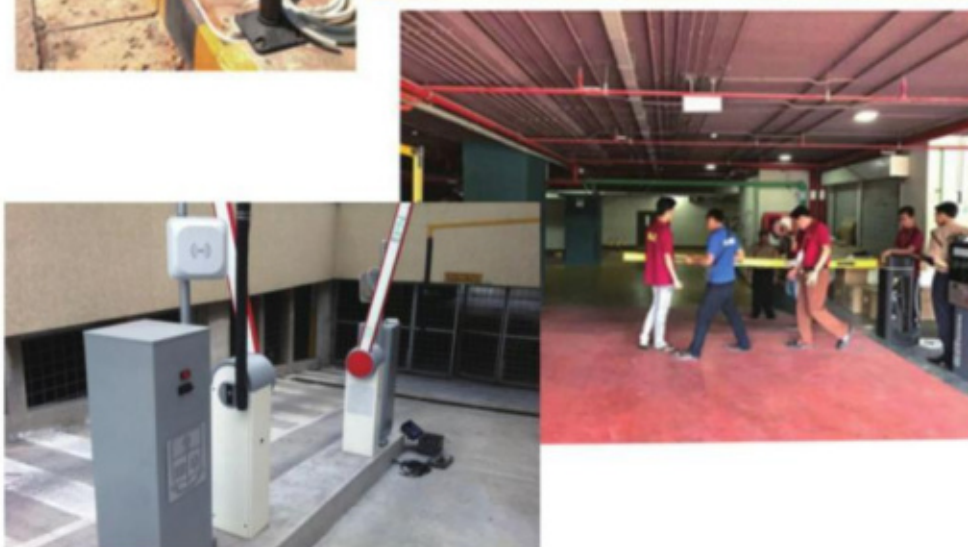Six modules, System maintenance, File management, Card management, Surveillance, Record, Report

Specifications

Power supply voltage:	DC 12v/3A
Communication interface	RS485/ VG26 / VG34
Card reading area	60-degree cone area
Reading distance	3-15 meters adjustable
Structure size	290*240*60(mm)
Barrier control	the relay can directly control the ramp

Specifications

Power supply voltage:	12V/3A Adaptor
Radio frequency power	0dBm~30dBm(Adjustable)
Interface	RS232,RS485,Wiegand
Reading distance	stable reading range 25M (Depends on tag&environment)
Structure size	450*450* 50mm
Input/output port	one-way trigger input

Model No.	JS–ASPMBC
Material	Steel plate 1.5mm
Screen	18.5 inch capactitive touch screen
System	Android5.0
Comunication interface	TCP/IP
Network	RJ45,100M
Voltage	220 v /110V±10%
Work temperature	-25℃~70℃
Work humidity	≤85%
Supported payment	Bank card,QR code,Note paper
READER	IC/ID CARD READER
ACCESSORIES	COIN COLLECT/CHANGE BANKNOTE COLL ECT/CHANGE BANK CARD SWALloW MACHINE BANK CARD KEYBOARD MACHINE PAYMENT RECEIPT PRINTER

N° 28085
DUBAI

1.Input plate number

2.Reader read rfid card

3.Barcode reader read code

4.QR reader read the entrance code

Display the parking time and payable value

PAY STATION

1.Pay by cash

2.Pay by credit card

3.Pay by coin

4.Pay by third party

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JS–AC01A/B

Parameters

Model	JS–AC01A	JS–AC01B
Rated Power	80W (Straight Arm)	120W (Telescopic /Fence)
Rated Voltage	AC220V+10%/50HZ	
Startup Speed	1.8s/3m 3s/4.5m 6s/6m	
Barrier Size	standard 3–6m	
Barrier Type	Straight arm, Telescopic arm, Fence arm	
Working Temperature	−40 ℃ ~ 85 ℃	
Color	Customizable	
Remote control distance	Within 40m	
Protection Grade	IP54	

JS–AC02

Parameters

Model	JS–AC02
Rated Power	80W (Straight Arm)
Rated Voltage	AC220V+10%/50HZ
Startup Speed	1.8s/3m 3s/4.5m 6s/6m
Barrier Size	standard 3–6m
Barrier Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	−40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40m
Protection Grade	IP54

JS–AC03

Parameters

Model	JS–AC03
Rated Power	80W (Straight Arm)
Rated Voltage	AC220V+10%/50HZ
Startup Speed	1.8s/3m 3s/4.5m 6s/6m
Barrier Size	standard 3–6m
Barrier Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	−40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40m
Protection Grade	IP54

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JS–AC04

Parameters

Model	JS–AC04
Rated Power	80W (Straight Arm)
Rated Voltage	AC220V+10%/50HZ
Startup Speed	1.8s/3m 3s/4.5m 6s/6m
Barrier Size	standard 3–6m
Barrier Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	–40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40m
Protection Grade	IP54

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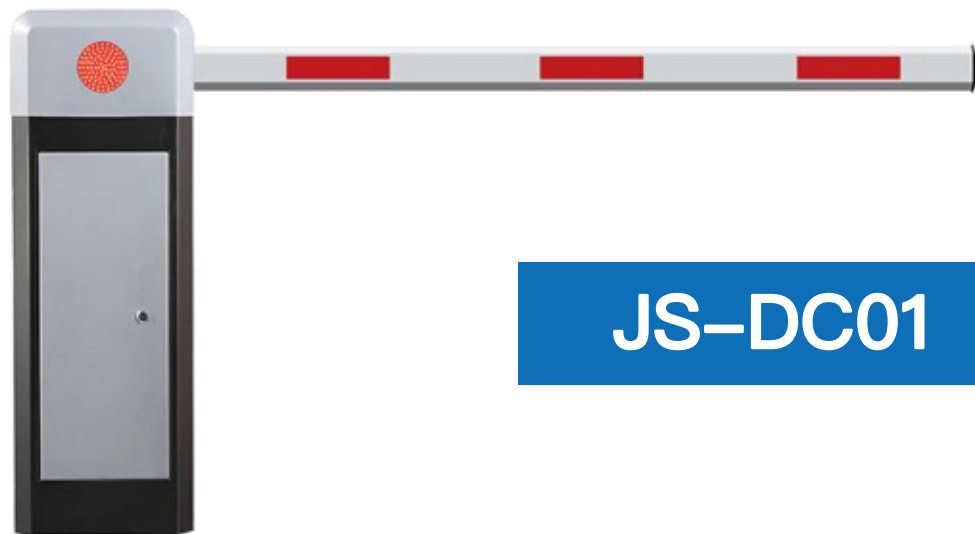
JS–DC01

Parameters	
Model	JS–DC01
Rated Power	160W
Power Supply	DC 24V
Open/Close Speed	1.5s–6s
Driving Method	DC Brushless Motor
Barrier Arm Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	–40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40 meters
Protection Grade	IP54
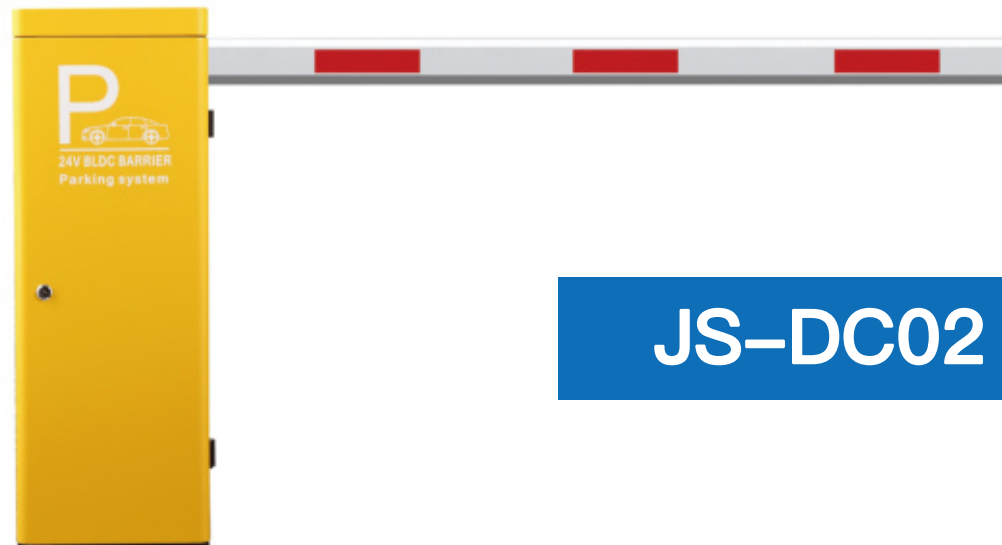
JS–DC02

Parameters	
Model	JS–DC02
Rated Power	160W
Power Supply	DC 24V
Open/Close Speed	1.5s–6s
Driving Method	DC Brushless Motor
Barrier Arm Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	–40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40 meters
Protection Grade	IP54

JS–DC03

Parameters	
Model	JS–DC03
Rated Power	160W
Power Supply	DC 24V
Open/Close Speed	1.5s–6s
Driving Method	DC Brushless Motor
Barrier Arm Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	–40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40 meters
Protection Grade	IP54
Working temperature	–25℃ ~+70℃

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JS–DC04

Parameters	
Model	JS–DC04
Rated Power	160W
Power Supply	DC 24V
Open/Close Speed	1.5s–6s
Driving Method	DC Brushless Motor
Barrier Arm Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	−40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40 meters
Protection Grade	IP54

JS–DC05

Parameters	
Model	JS–DC05
Rated Power	160W
Power Supply	DC 24V
Open/Close Speed	1.5s–6s
Driving Method	DC Brushless Motor
Barrier Arm Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	−40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40 meters
Protection Grade	IP54

JS–DC06

Parameters	
Model	JS–DC06
Rated Power	160W
Power Supply	DC 24V
Open/Close Speed	1.5s–6s
Driving Method	DC Brushless Motor
Barrier Arm Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	−40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40 meters
Protection Grade	IP54

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JS-DC07

Parameters	
Model	JS-DC07
Rated Power	160W
Power Supply	DC 24V
Open/Close Speed	1.5s-6s
Driving Method	DC Brushless Motor
Barrier Arm Type	Straight arm, Telescopic arm, Fence arm
Working Temperature	-40 ℃ ~ 85 ℃
Color	Customizable
Remote control distance	Within 40 meters
Protection Grade	IP54

IPC

· CPU：i5 4200u
· Ram：4G ddr3
· HDD：64G SSD+ 1T
· Dimension：23*15*4.3CM

Fiber Optic Switch Converter

· Transmission Rate:10/100M,
  10/100/1000M auto–adaptive
· Transmission Mode:
  Full Duplex /
  Half–duplex auto–adaptive
· Fiber Port Connector: SC/FC/LC
· Optical Fiber Transmission
  Distance:0–120km

Switch

· Automatic detection and
  identification of equipment
  conforming to IEEE 802.3AF/AT
  standards and power supply
· Auto MDI/MDIX
· All ports support wire–speed
  forwarding
· Compatible with wire–speed
  forwarding
· Compatible with wireless AP,
  IP cameras ,computers ,printers ,
  intelligent game consoles and
  other equipment

Fiber Optic Media

· Transmission Rate:10/100M,
  10/100/1000M auto–adaptive
· Transmission Mode:
  Full Duplex/Half–duplex auto
  –adaptive
· Fiber Port Connector: SC/FC/LC
· Optical Fiber Transmission
  Distance:0–120km