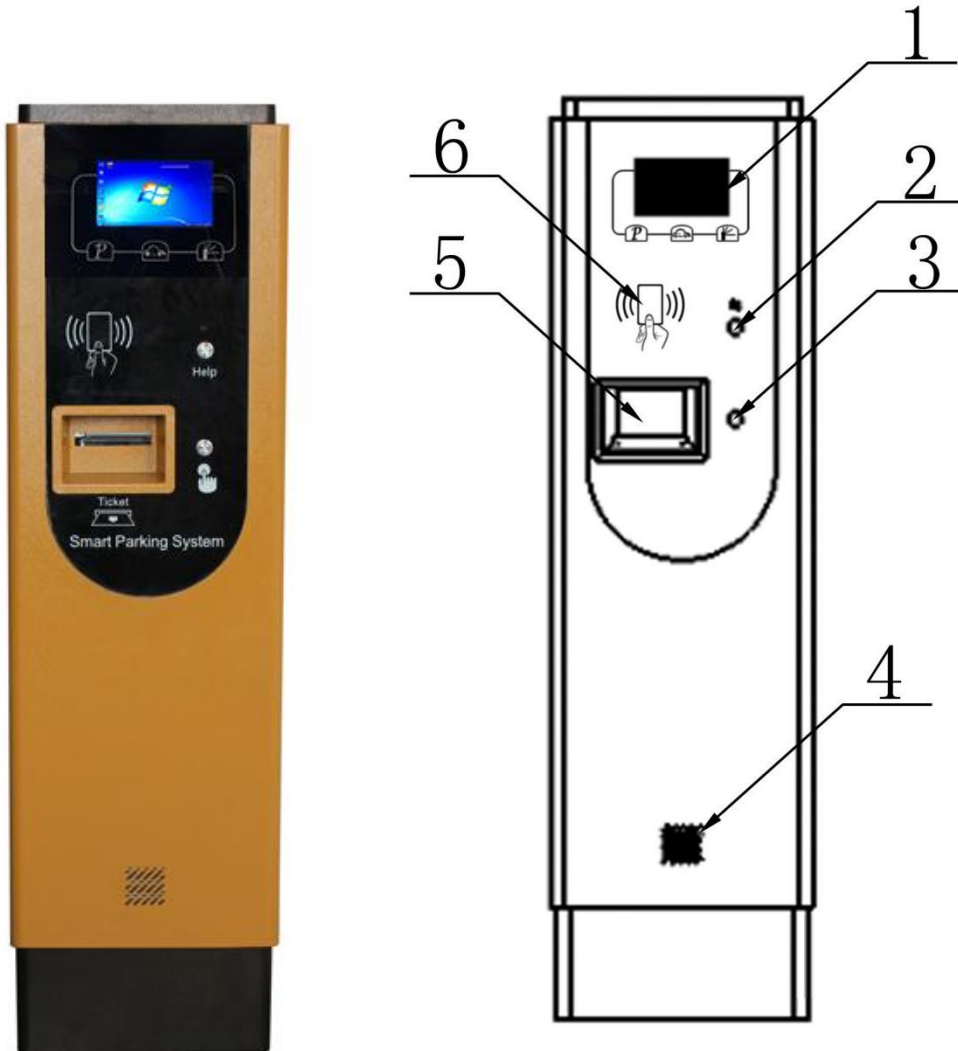


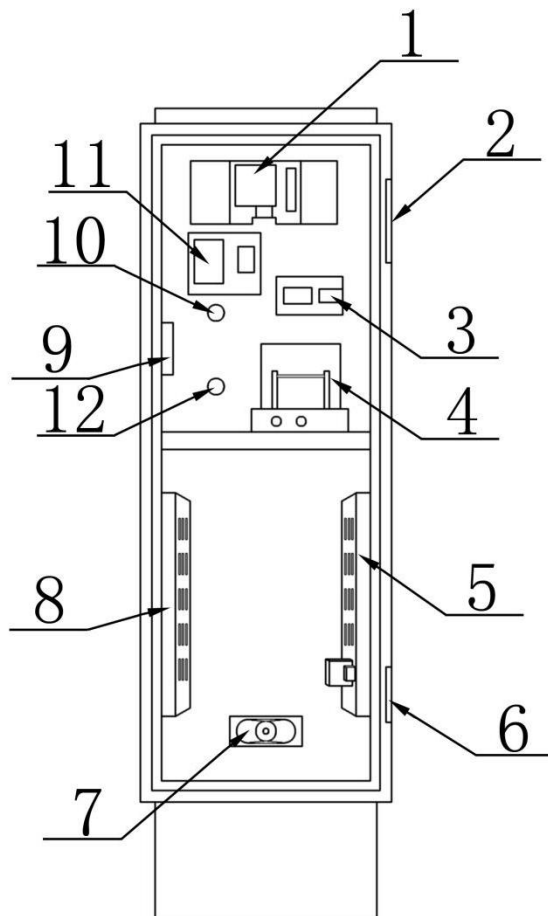
COMA PRODUCT SPECIFICATION

Ticket Dispenser (Entrance)



NO.	ITEM
1	7"LCD screen
2	Intercom button
3	Ticket button
4	Speaker for voice prompt
5	Ticket slot
6	card reader

Internal structure:

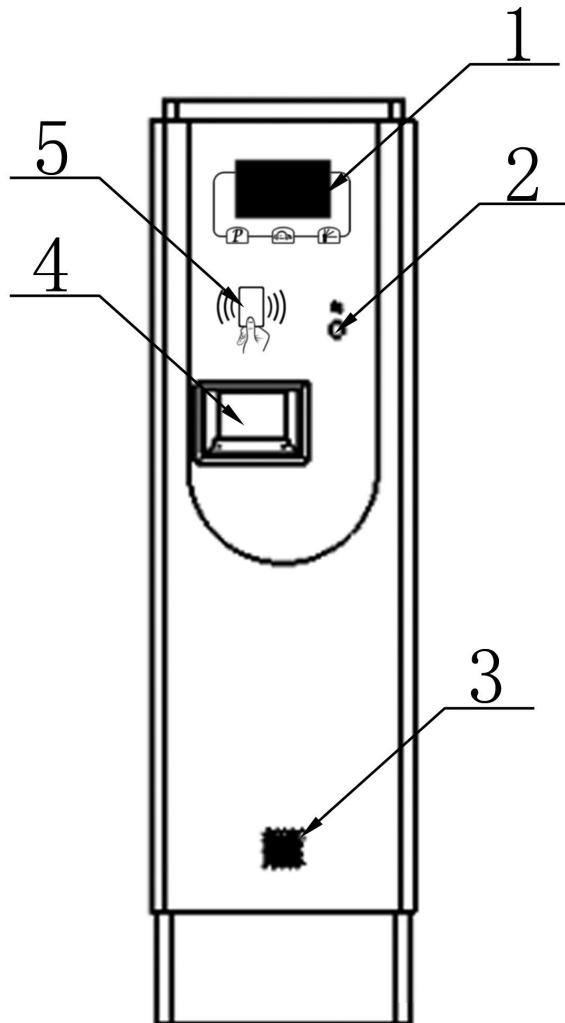


NO.	ITEM
1	7"LCD screen
2	LED light
3	Card reader
4	Ticket printer
5	Power box and loop detector
6	LED light
7	Speaker for voice prompt
8	Industrial controller
9	Speaker for intercom
10	Intercom button
11	Intercom board
12	Ticket button

Specification CMK802	
Power supply	AC 110/220V±10%, 50/60HZ, Max.1.5A
Environmental temperature:	-20℃- +50℃
Humidity:	10%~95%
Ticket type:	Barcode
Ticket size:	80mm (W)
Capacity:	2000-2500 pcs. (diameter150mm) per roll
Ticket Cutter:	high strength, free maintenance
Ticket dispensing time:	<1s

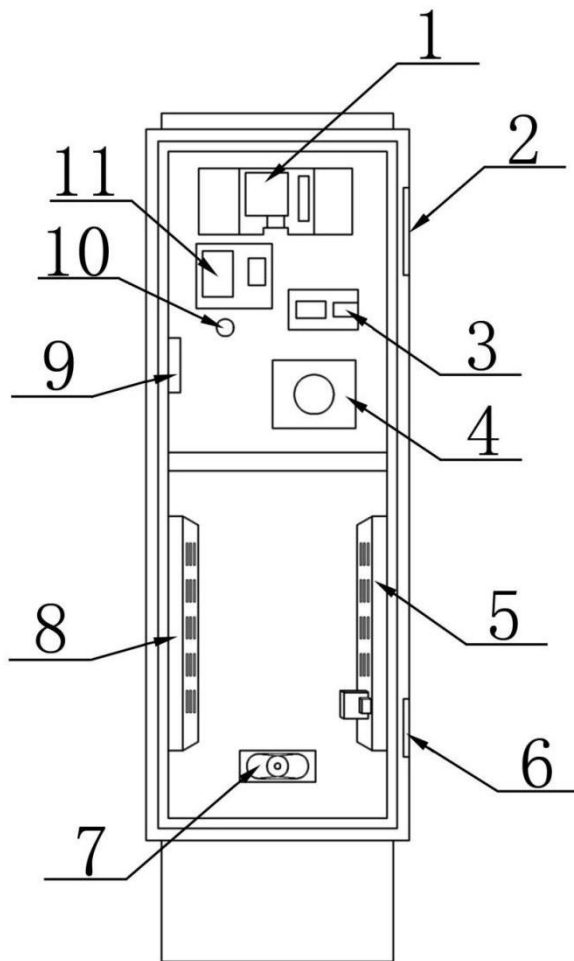
Card reader Interface:	Rs 232 interface
Card Reader type:	ID/IC card
Card reading and verifying time	<1s
Reading range:	0-8cm
LCD Display:	7 inch TFT resolution 800×480 Brightness: 400 cd/m ² Contrast: 500:1
Intelligent Control Unit:	J1900 4-cores, 2.0G
	Rs232×5 no.s
	Multi Relay output
	HDMI×1
	USB×4
	Audio output×1
Dimension (mm)	410*320*1470
Net weight: (KG)	45
Gross weight: (KG)	55

Ticket Scanner



NO.	ITEM
1	7"LCD screen
2	Intercom button
3	Speaker
4	Ticket scanner
5	Card reader

Internal structure:



NO.	ITEM
1	7"LCD screen
2	LED light
3	Card reader
4	Barcode ticket scanner
5	Power box and loop detector
6	LED light
7	Speaker for voice prompt
8	Industrial controller
9	Speaker for intercom
10	Intercom button
11	Intercom board

Specification CMK803	
Power supply	AC 110/220V±10%, 50/60HZ, Max.1.5A
Environmental temperature:	-20°C- +50°C
Humidity:	10%~95%
Ticket verifying time:	<2s
Card Reader type:	ID/IC card
Card reading and verifying time	<1s
Reading range:	0-8cm
LCD Display:	7 inch TFT resolution 480×800 Brightness: 400 cd/m ² Contrast: 500:1
Intelligent Control Unit:	J1900 4-cores, 2.0G
	Rs232×5 no.s
	Multi Relay output
	HDMI×1
	USB×4
	Audio output×1
Dimension (mm)	410*320*1470
Net weight: (KG)	45
Gross weight: (KG)	55

Automatic payment machine



APS (Automatic Pay Station) is an optional automatic payment terminal which is part of parking management system. It supports multi payment method saying bill, coin, bank card (optional), T & G reader (optional) and local transportation card (optional), reads either parking barcode ticket or proximity card or even parkers can input number plate on touchscreen. Parkers can get receipt from this APS. The APS is user friendly and easy-to-use for parkers, can effectively promote the vehicle circulation, achieve unmanned intelligent charge, reduce human cost and improve property management. It is especially suitable for large scale of parking lots.

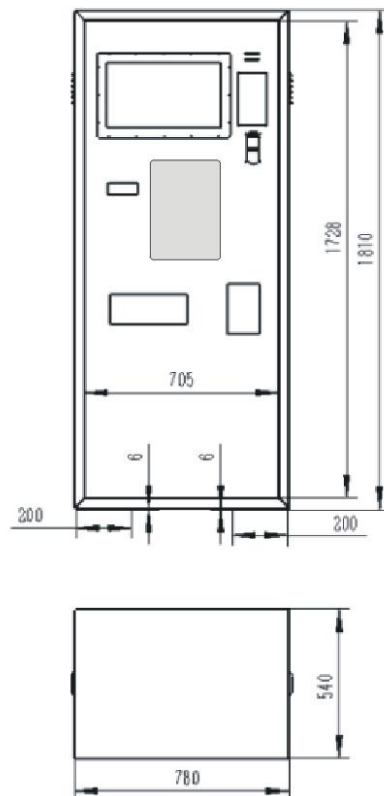
Features:

- **Unattended parking lot:** parker can make payment and print receipt by themselves.
- **Multi payment method:** support bill & coin, bank card reader reader (optional), T & G reader (optional) and local transportation card (optional)
- **Variety of Currency:** accept over 120 countries and regions bills and coins.
- **Multi Charging Mode:** support to read parking card,scan barcode ticket,input license plate number
- **Module design:** neat and elegant inner structure, come with intercom and UPS power supply will be more friendly.
- **Humanized design:** management software can receive notification if paper or change is running out, if cash box is almost full.
- **Expansibility:** can integrate into existing parking system with the C#SDK we provide.

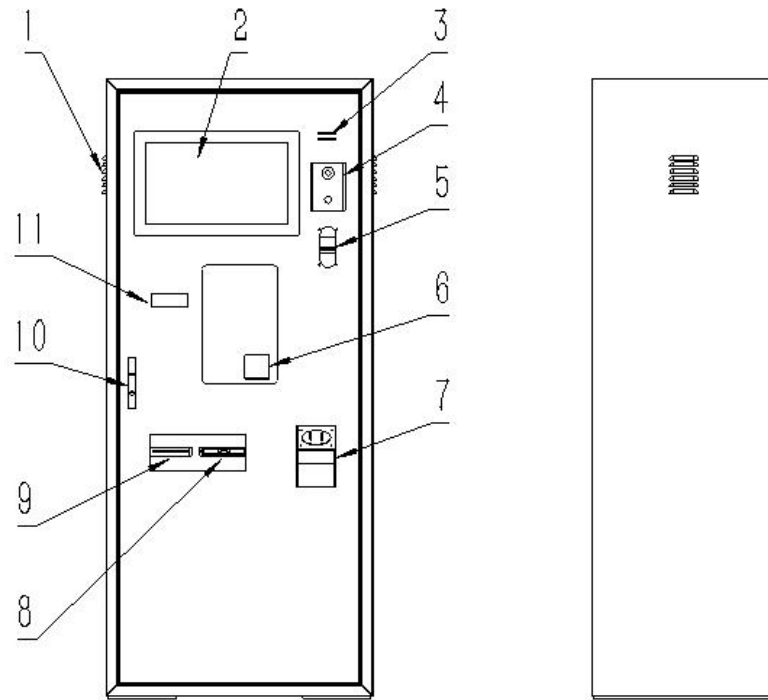
Model		CMZ-8001
System	Processor	J1900 4-cores, 2.0G
	Operating system	Windows 7/10
Input/output	Receipt printing	USB interface; Thermal printing, auto-cut no-enough-paper alarm, Print span: 80 mm; Paper roll diameter: 150 mm
	Barcode scanner	Honeywell brand, barcode scanning, laser net scanning (USB interface)
	Audio output	1
	Touch screen	18.5-inch LCD; Accurate location without drifting
Interface	RS-232 serial interface	6
	USB interface	4
	VGA interface	1
	HDMI	1
	Network interface	1, RJ45 10M/100M self-adaptive Ethernet interface
Function	SSD capacity	128 G
	Display	Response time: 14 ms; Max. resolution: 1366 × 768, 32 Bit; Brightness: 1000cd/m ² Contrast: 1000:1;
	Upload	The data can be uploaded to the central platform.
	Bank note identification	Cashbox containable with notes of multiple currency value; Precise identification of the currency value
	Bank note changes returning	1 to 2 cashboxes can be selected; Changes with up to 2 kinds of currency value can be returned; Self-checking function can prevent from returning overmuch notes and note jam caused by damp;
	Coin receiving	Coins of multiple currency value receivable (optional)
	Coin changes returning	Coins of multiple currency value returnable (optional)
Safety	Safe and Coded lock	For password configuration, guaranteeing safe cash receiving and returning of notes and coins;
	Visual intercom	optional
General	Power supply	220V±10%, 50-60Hz
	UPS	can provide power about 5minutes after power failure
	Speaker	1 no.

	Consumption	≤ 250W
	Mechanical characteristics	In-hall structure; baking paniting body preventable against rust and corrosion Thick and solid material, not easy to cause deformation; Internal structure in which each module can be maintained easily and conveniently; Standard and ordered wiring
	Working environment	Environment temperature: -20 °C to +50 °C Relative humidity: 40 % to 80 % (uncompressed)
	Applied location	For indoor use (keeping away from water)
	Placement mode	Perpendicular to stable floor
	Communication mode	TCP/IP
	Switch	8 ports
Dimension (mm)		780*540*1810 (without wheel)
		780*540*1900 (with wheel)

Overall Dimension (mm)

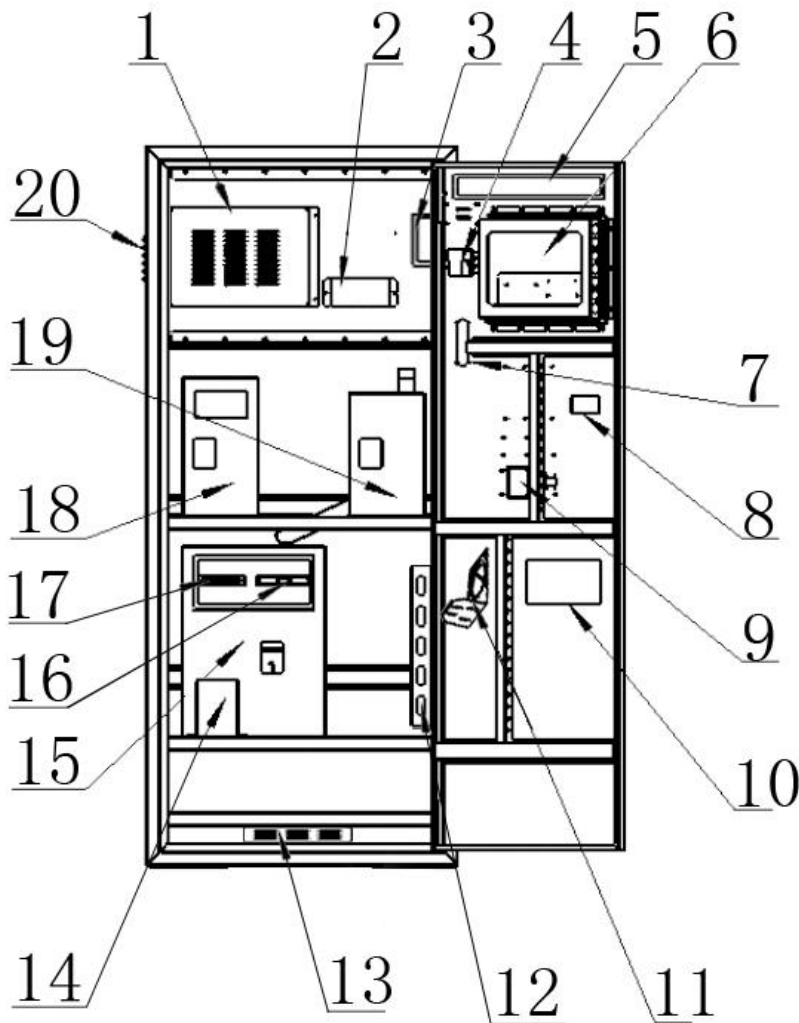


External Structure:



No.	Description
1	Fan ventilation
2	18.5" LCD display
3	Speaker
4	Audio/Visual intercom
5	Coin receiver slot
6	Card reader (Not applicable)
7	Ticket scanner
8	Bill change given slot
9	Receipt printer
10	Mechanical lock
11	Bill receiver slot

Internal Structure:



NO.	Description
1	Industrial controller
2	8 port switch
3	Fan
4	Audio/visual Intercom
5	LED light
6	LCD display
7	Coin receiver slot
8	Bill receiver slot
9	Card reader
10	Receipt & change given slot
11	Barcode ticket scanner
12	Power box
13	Dust-proof net
14	UPS
15	Coded lock
16	Bill change given module
17	Printer
18	Bill receiver
19	Coin receiver
20	Fan ventilation

ANPR parking system



Parameter	
Communication port	RS485/TCP/IP/RS232
Working temperature	-15°C to +85°C
Working humidity	10%- 90%
Working Voltage	AC220V
Max power	10W Max
Dimension(L*W*H)	380*160*1500mm, Max. Height: 1600mm
LCD Display(L*W)	380*360mm

Feature

1. Adopt 2 million pixel low illumination CMOS image sensor with a resolution of 1920 x 1080 and a frame rate of 25 frames per second;
2. Industrial microprocessor, integrated RTC clock module, online download of hardware program, and rapid program upgrade;
3. One channel can support two-way all-in-one license plate recognition machine. Solve the problem of poor environment and low recognition rate;
4. Support various network protocols, including TCP/IP, UDP, HTTP, FTP, NTP, ONVIF, RTSP, GB28181, etc.
5. License plate recognition technology and display technology perfect integration, highlight module, support single and double color display;
6. It has offline function. Regular users can enter and exit freely when it's offline;
7. Built-in traffic lights, high-power LED supplement light, automatic light on in night, brightness adjustable;
8. Integrated high quality voice module, supports 10-level volume adjustment and voice DIY function;
9. Support key settings including address, baud rate, volume, brightness, clock adjustment, and support software adjustment;
10. High integration, less space, simple installation and wiring, easy maintenance.

License plate recognition Camera

PRODUCT MODEL : DSC278

The high-definition license plate recognition machine uses a low-power high-performance ARM processor and a low-light CMOS sensor. It is an intelligent license plate recognition device

This product is specially designed for the parking lot industry based on embedded intelligent high-definition license plate recognition products. It is the best application form of the license plate recognition function of the parking lot management system. The products are widely used in various parking lot entrances and exits, community entrances and exits, highway entrances and exits, etc. Scenes.

Functional Characteristics

- All day license plate recognition rate is higher than 95%;

- Support monocular license plate anti-counterfeiting technology to support false license plate detection and identification;

- Video compression technology H.264 is used for video coding, and capture frames are JPEG encoded;

- comes with a fill light, you can make a step-by-step forced opening of the built-in fill light;

- Support PC local recording;

- Support TF card storage;

- Supports three detection methods: coil detection, video detection, coil detection + video detection;

- Support OSD information overlay function, support video/picture overlay watermark;

- Support whitelist import and export function, you can do fuzzy matching on whitelist;

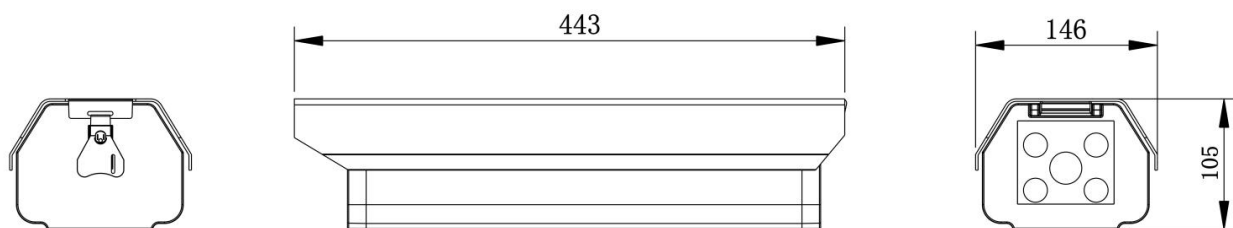
- Support remote client control functions, parameter configuration, video preview, remote upgrade;

- Support configuration file import backup;

- Support manual key reset, one key to restore initial IP address, user name, password and restore default factory configuration;

- Surge protection level: 6KV (more than national standard level 4);

Dimensions

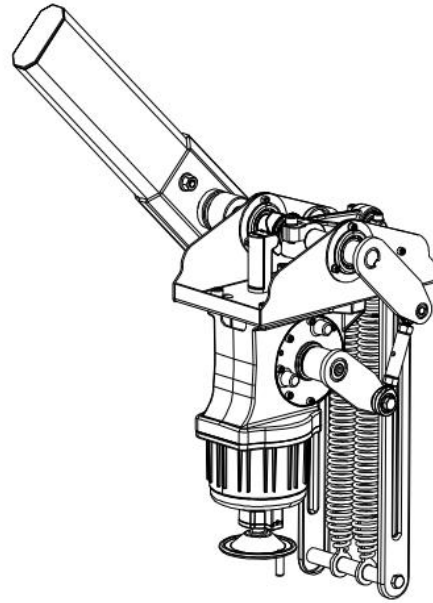


Technical Parameters

Types	Item	parameter
Intelligent Recognition	Accuracy	≥95%(Need ANPR software to support)
	Front inspection	Support for front detection
	Identify license plate type	Over 120 countries and regions
Video input	sensor type	CMOS
	Lens and focal length	Zoom 2.8~12mm
	Exposure time	1/100 ~ 1/10000s
Video output	Image size	1080P, 720P, 4CIF, CIF
	Compression standard	H.264/JPEG
	Compressed output bit rate	384Kbps ~ 4Mbps
	Maximum frame rate	Main stream 25FPS, sub-stream 25FPS

	Image setting	Adjustable shutter, gain, brightness, etc.
Functions	Capture trigger type	Video, coil, video + coil
	False license plate	Support for false license plate detection
	Built-in fill light	Built-in LED fill light, adjustable brightness
	Output information	license plate small picture, license plate number
	OSD information overlay	Support, can define time, location, license plate, etc. In English
	One-button reset	Short press 2 seconds to restore the default IP, username and password Press and hold for 10 seconds to restore the default IP, username and password, factory configuration
	Whitelist function	Support whitelist import and export functions(* with system support)
	Main and auxiliary mode	Support main and auxiliary camera mode
	Offline charge	Support offline charging function
External interface	Net work communication	1 RJ45 100M adaptive network interface 2 RS485 interfaces
	power supply	1 AC 220V voltage interface
	Input	2-way switch input interface
	Output	2-way switch output interface (relay)
	Reset	1 reset button interface
	storage	1 TF card interface
	USB	1 standard A type USB interface
	working environment	Total power
Working temperature and humidity		-30 to +75 degrees, <95% (no condensation)
Protection level		IP65
Appearance	Size(mm)	443×146×105
	Weight (Kg)	1.8

Automatic barrier gate



Main Features

1. Manual release
2. Machine core with compression spring, effectively avoids the accidents caused by spring breaking
3. Die-casting aluminum alloy motor, precision and good at thermal radiating
4. Motor cooling fan, solving the problem of heat-protection
5. Double safety limit switches (photo electricity limit switch/motor memory sensor)
6. Reversing on obstacle
7. Auto-closing
8. Support the INFRARED PHOTOCCELL for anti-bumping function (optional)
9. Support the external and internal VEHICLE LOOP DETECTOR (optional)
10. Traffic light interface
11. Wire control (switch signal)/ Remote control (433.92MHZ)
12. RS485 communication module (optional)

PRODUCT SPECIFICATION FOR BARRIER GATE CMD-802	
Model NO.	CMD802
Power Supply	220VAC 50Hz/110VAC 60Hz
Rated Power	120W
Motor Power	90WAC/80WDC

Length of boom	1.5m/3m/4m/5m/6m
Max. Boom Length	6m
Time for Open/Close	3s (for 3~4m), 6s (for 5~6m)
Environmental Temperature	-40°C~+75°C
Protection Level	IP55
Material of Barrier	Aluminium Alloy
Dimension	350*265*1050mm
Net Weight	About 65KG

Toll computer server



Server :

Recommended configuration:

RAM: 16GB (64 bit)

Hard disk capacity: 2T

CPU: Intel i7

Display resolution: 1920 x 1080

Toll station:

Recommend configuration:

RAM: 8GB (64 bit)

RAM: 1T

CPU: Intel I3

Display resolution: 1920 x 1080

Parking management system software

System Stability

- C/S software architecture
- Support 7*24 stable operation

High Flexibility and scalability

- Support unlimited accounts management, 200 online users · Support 8 ANPR channels input

High Compatibility

- Devices included: network camera, barrier gate, ticket/card dispenser, scanner machine, toll workstation, card collector machine, payment machine, LED Screen, traffic light etc.
- Offer the platform SDK for third-party platform do further development

Running Environments**Operating System**

- Embedded Windows 10 (64-bit)

Browser Version and Database

- IE 10 or above or Chrome, database: Windows SQL 2012

Archives Management

- Support personnel information management
- System user management
- Card issuing and extension
- Device information
- Toll collector management

Data Query

- Passing record query
- Card information query
- Toll collector shift record
- Extension record query

System Maintenance

- Abnormal shift reset
- Toll station management
- System login environment configuration
- Manage the devices and users for the different parking lot

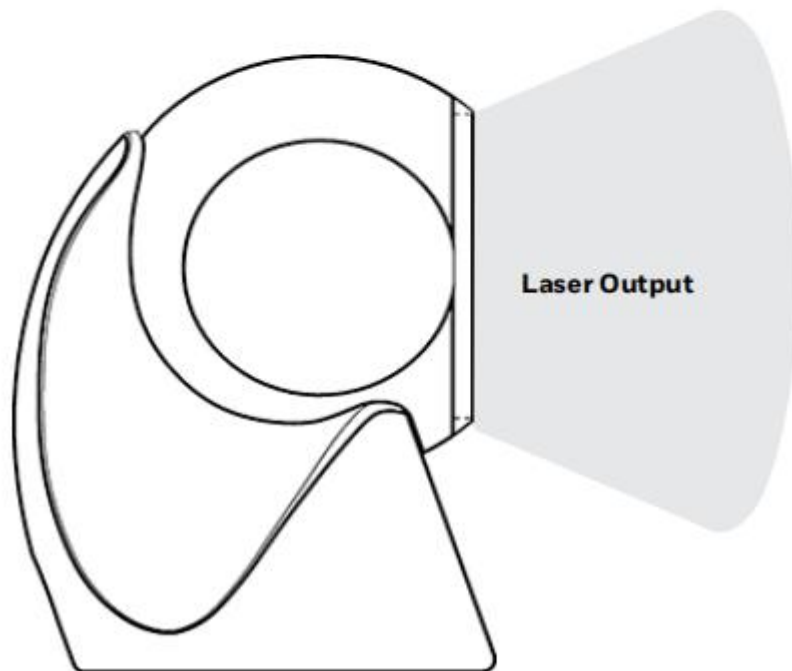
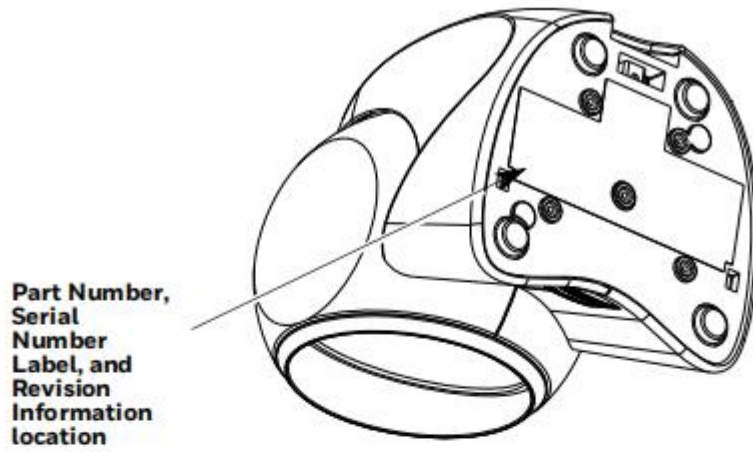
- Assign different users with different parking rights
- Customized parking-lots and binding associated devices
- Live view for various entrance & exit, customized layout
- Remote barrier opening from Control C client
- Capture and display plate No. and corresponding vehicle type
- Customized split window to preview
- Setting the display ratio of the channel screen
- Support force existing vehicles to leave
- Support filter by criteria like ANPR channel\ Direction\ plate No. to search associated info
- Support view pass records and export report
- Support flexible configuration of entry rules
- Support card manager and rights manager
- Support view the status of device and parking spot on the map, you can also search the parking records and captures of the plate license

Loop Detector and coils



Specification	
Model	CMJ-011
Working voltage:	AC 220V/110V±10% 50HZ/60HZ
Rated power	4.5W
Frequency:	20~170KHZ
Response time:	10ms
Sensitivity:	three level sensitivity adjustable by manual (Low/mid/high)
Environment Compensation:	Automatic Drift Compensation technology avoids wrong detection caused by environmental temperature change.
Ground induction coil:	80uH—300uH
Storage temperature:	-40°C-85°C
Working temperature:	-20°C-65°C
Humidity:	10%~95%
Dimension	78(L)×40(W)×108(H)mm (includes base)
Coils size	Total 50meters, 0.75mm ²

Scanner



Model	Honeywell MS7120
Scan speed	1120 times per second
Scanning mode	omnidirectional multi-line (5 directions, 4 parallel lines in each direction)
Light source	visible laser diode laser
Communication interface	PC keyboard port /USB
Buzzer	7 tones or silent
Indicator light	blue = laser light, ready to scan; White = decoded successfully
System interface	PC keyboard port, RS232 serial port, analog light pen 1BM468X469X,USB
Input voltage	5VDC \pm 0.25V
Working power	900mW 180ma@5v - typical value
standby power	850mW(170ma@5v)- typical value
DC power	Class2:5.2 vdc@1a
Laser level	Class1:1 EC60825-1. EN60825-1
Electromagnetic compatibility	ICES - 003, FCC part15 , EN55022 Class B
Illumination	nearly 4842Lux(450 feet candlelight)
Recognizable print contrast	minimum 35% contrast value
Earthquake resistance	able to withstand 1.2 meters of air fall
Dust-proof	sealed to prevent air particle erosion
Humidity	5%-95% relative humidity, non-condensation state
Working temperature	0 °C and 40 °C
Storage temperature	- 40 °C to 60 °C
Size	105 mm * 102 mm * 150 mm
Weight	400 g
Decoding capacity	Code 39. Code 93.Code 128.UPC/EAN/JAN, Code2of 5, Code11,Codebar, MSI Plessey ,GS1,DataBar, Telepen,Trioptic.

Card issuer



Parameter:	
Frequency	125 KHZ
Induction distance	Buttoned TG: 5 cm;Card TG: 10 cm
Working voltage	DC 12 v
Working current	30 mA
Communication methods	RS232
Communication baud rate	9600 BPS
Card reading time	0.1 S, about 100 ms delay time
Induction card types	encapsulation chip 4100410 2, all sorts of modelling of TK4100 read-only card
Working temperature	-20℃ --- +65℃
Storage temperature	-25℃ --- +85℃
Dimension:	120×100×29mm