

HD License Plate Recognition All-in-One Terminal P823 (LCD) Product Specification



Model: P823 (LCD)

Product Description: HD License Plate Recognition All-in-One Terminal (LCD)

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1. Product Overview

P823 (LCD) HD License Plate Recognition All-in-One Terminal is the key device that enables unattended operation and diversified revenue for car parks. It integrates recognition, interaction, guidance and advertising into a single unit, redefining the experience and efficiency of the parking entrance.

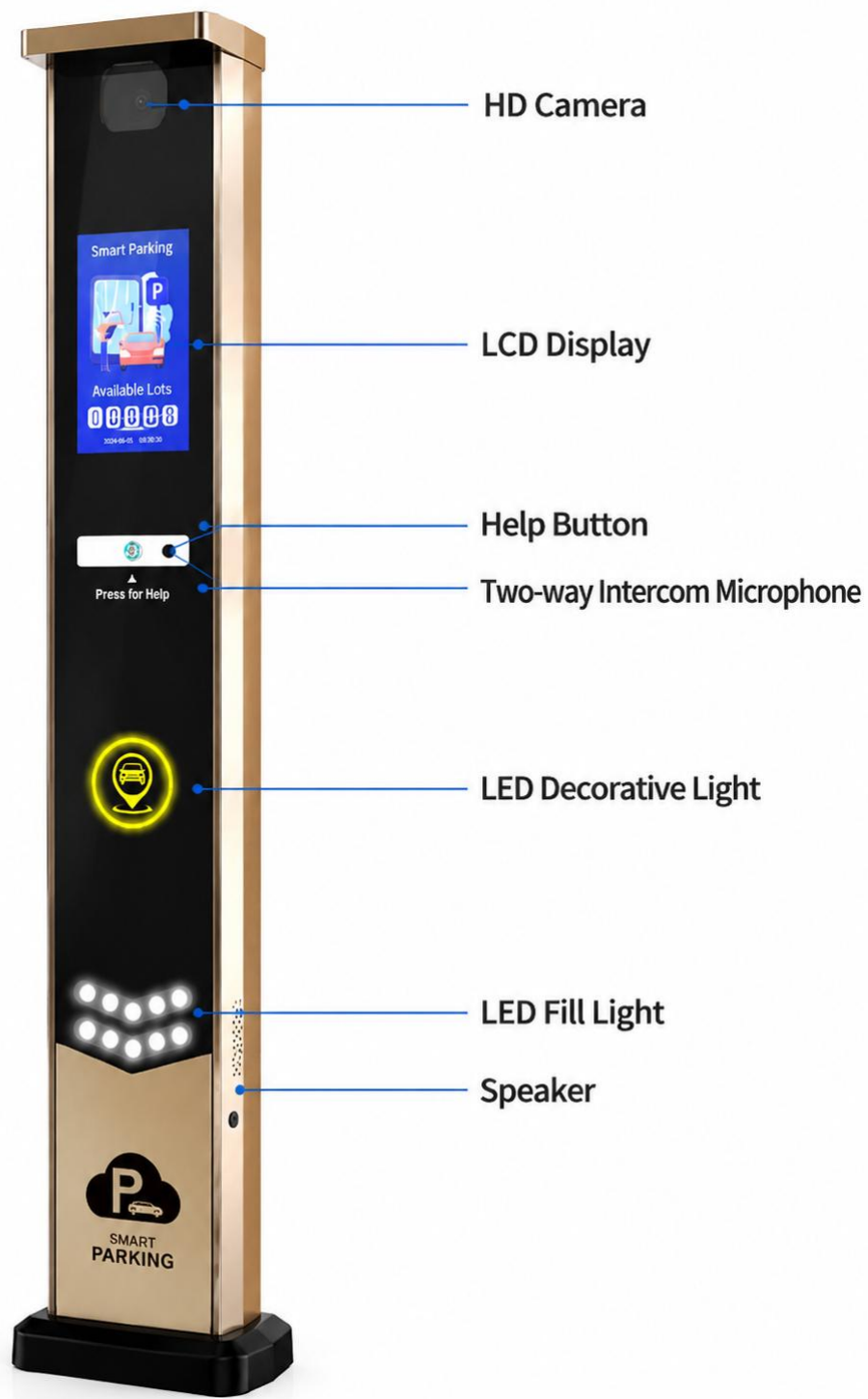
Integrated design: built-in HD recognition camera, LCD display, voice module, fill light and dynamic QR code - multiple functions in one machine, simplifying on-site deployment.

Unified styling: a series-based appearance that matches the other equipment in the car park, creating a professional and modern visual environment.

Diversified management: supports local, cloud and mobile management modes to meet operating requirements in different scenarios, helping car parks cut costs, improve efficiency and increase revenue across the board.

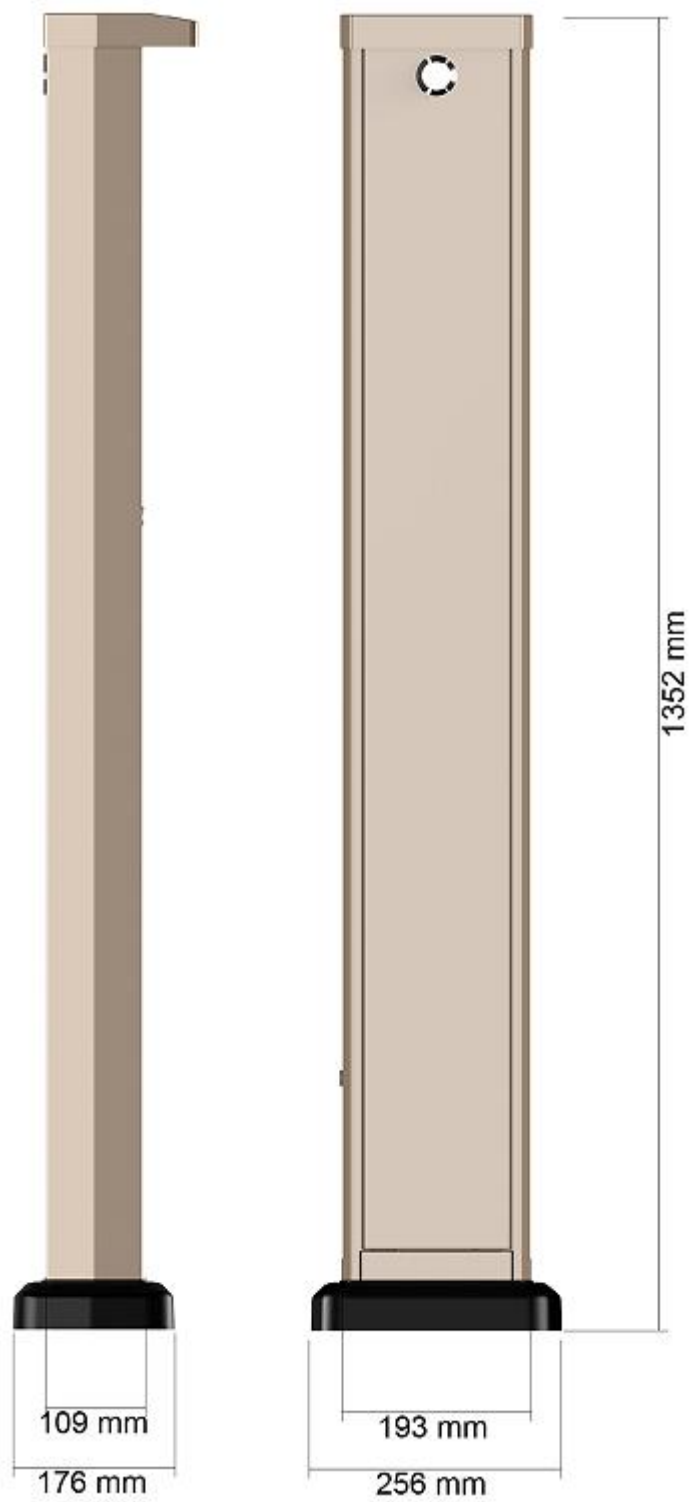
2. Product Illustrations

2.1 Structure Layout



2.2 Product Photos





3. Product Features

- Series-based design with a highly approachable appearance; series matching gives a more coordinated and unified style;
- Equipped with the all-new ICE V6.0 CNN deep-learning algorithm, supporting recognition at wider angles. Higher plate recognition rate, adapting to full-scene license plate recognition and solving customers' core pain points
- 5MP image resolution and a brand-new ISP version, supporting scene-adaptive mode to handle both front-lit and backlit scenes with ease; better low-light performance and clearer details
- Supports debugging via a mobile Bluetooth mini-program - no PC and no network cable required (Bluetooth module required)
- 10.1-inch outdoor high-brightness LCD screen makes the payment page more intuitive;
- The screen adaptively adjusts its brightness according to data exchange - energy-saving and durable;
- Supports plate-free vehicles entering and exiting by scanning the lane QR code, and self-service scan-to-pay on exit;
- Custom loading of image and video advertisements;
- Supports recognition of various special license plates (electric-character, in-factory, in-yard, airport, agricultural), meeting more non-standard recognition requirements
- Supports one-key remote intercom call to handle exceptions (optional);
- User-friendly voice broadcast, with different volume levels configurable by time period;
- Integrated structure, convenient for transportation and cable installation;
- Only one network cable and one power cable are required; plug and play, simple installation and commissioning.

4. Specifications

Basic Parameters	
Operating Voltage	AC220V $\pm$ 10%
Operating Temperature	-20° C to +60° C
Relative Humidity	$\leq$ 95%, non-condensing (at room temperature)
Rated Power	$\leq$ 60W
Memory	1G RAM, 4G ROM
Communication	TCP/IP, RS485
Display Type	10.1-inch HD outdoor LCD display
Resolution	1366*768
Enclosure Protection Rating	IP54
Material & Finish	High-strength carbon steel, sheet metal with spray coating
Dimensions	364.6*140.0*1460.0mm (L*W*H)
Camera Parameters	
Power Supply	12V/2A
Plate Recognition Rate	$\geq$ 99% (typical plates, all-weather)
Applicable Vehicle Speed	0-40km/h
Recognition Angle	$\leq$ 45°
Optimal Recognition Distance	3-6m
Trigger Mode	Loop detector or video stream
Supported Plate Types	Standard blue plate, yellow plate,

	double-row yellow plate, police plate, new armed police plate, new military plate, new embassy plate, civil aviation, driving-school vehicle, new energy, Hong Kong/Macao, emergency plate
Recognized Plate Attributes	Plate number, color, type, width
Output Information	Vehicle feature image, license plate image, plate number, color, type, passing time
Plate Anti-counterfeiting	Supported
Storage	Supports SD2.0 standard MicroSD (TF) card, up to 32G
Fill Light Parameters	
Number of LEDs	10 pcs
Max. Power	$\leq 10W$
Fill Light Control	Photosensitive control
Fill Light Distance	Illuminance greater than 50LUX at 5m
Adjustable Angle	Supported

5. Overall Dimensions and Mounting Hole Layout

P823-LCD

