TRGMGW-LDV4 Automatic Car Parking Management with LPR/ANPR Camera System

High Quality CCTV Solutions

LPR or ANPR Parking system (License Plate Recognition) technology can extract and recognize vehicle license plates in motion from a complex background, and recognize vehicle license plate information through technologies such as license plate extraction, image pre-processing, feature extraction, and license plate character recognition.

- Adapt to Vehicle Speed: ≤35km/h
- Fill Light: <30lux
- Recognition Distance: 3-10meters

- ✓ Recognition Rate: 99%
- ✓ Recognition Speed: <30km/h
- ✓ Display Screen: Four lines display

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✓ Features:

- Camera Lens: 4-12MM
- Capture Distance: 4 M
- Camera: 1/3CMOS, 2Mpixel
- Record: DATABASE
- Management: PARKING SOFTWARE
- Languages: English, Spanish, Russian, Japanese, Korean, Thai, Portuguese.

✓ Product Introduction:

What is LPR (License Plate Recognition) Technology?

License plate recognition (ANPR/ALPR/LPR) is one of the important components in modern intelligent transportation parking systems, and it is widely used.

Based on technologies such as digital image processing, pattern recognition, and computer vision, it analyzes the vehicle images or video sequences taken by the camera to obtain the unique license plate number of each car to complete the recognition process.

✓ Function:

1) Camera: it mainly captures pictures, which are sent to the software for recognition. There are two ways to trigger the camera to capture pictures. One is that the camera itself has a head-detection function, and the other is that the car is triggered by the loop coil when vehicle pass to capture the picture.

2) Display screen: You can customize the display contents of the display screen.

3) Column: The column and the appearance of the product are formed by cold-rolled iron sheet, strong and waterproof.

4) Fill light: With an automatic light sense < 30Lux, the light will be automatically opened according to the surrounding environment of the project site, and will remain bright until the supplementary light detects that the surrounding environment becomes brighter, and the light sense will be automatically closed when it is greater than 30Lux.

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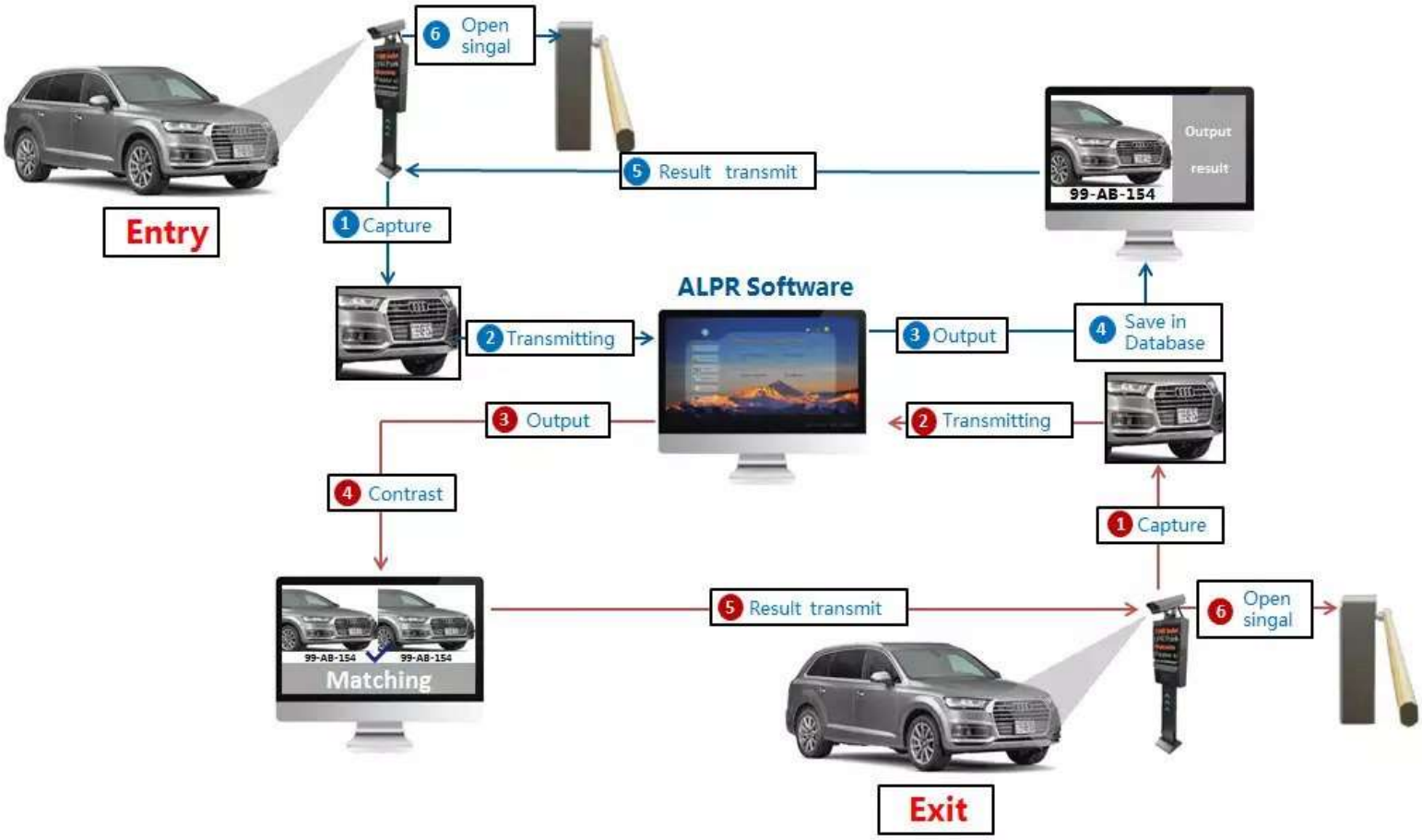
✓ ALPR Workflow:



✓ Process Description:

Entry: The license plate recognition camera captures an image by means of vehicle head detection or loop coil trigger, and the image is transmitted to the software.

The software algorithm recognizes the image, writes the recognition result into the database and returns it to the camera, and the camera sends the switch signal to barrier switch.

Exit: The license plate recognition camera captures an image by means of vehicle head detection or loop coil trigger, and the image is transmitted to the software.

The software algorithm recognizes the image, outputs the recognition result and compares it with the entrance recognition result in the database. The comparison is successful and the result is returned to the camera.

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✓ ALPR software interface-multiple languages and Software function:

1) The recognition module is built into the parking lot software, which can recognize the license plates of 123 countries and regions and output the results.

2) Parking software, which can manage the whole parking lot from entrance and exit to charging.

3) Set permissions for operators who manage parking lots.

4) Set the charging rules of the parking lot, input them into the system and charge them automatically.

5) Monitor the movement of vehicles in and out.

6) Keep a record of vehicle movements.

7) Form the report summary of vehicle access management, fee management and parking management.

8) The best solution of a set of parking software is to manage the parking lot with one in and one out. It can also be used for two in and two out. If beyond this range, it may affect the efficiency of management or cause the situation of stagnation, which also depends on the actual use of computers and the amount of vehicles.

✓ ALPR System Advantages

- License plate recognition parking system is a reliable, accurate and cost effective car park management solution. It is widely used in many places, including supermarkets, retail parks, hotels, hospitals and leisure centers.
- Reduce labor cost and management difficulty of parking lot system, Improve vehicle traffic efficiency.
- Ticketless/ card less parking lot management. Increased security and Parking access automation.
- Prevent car theft and prevent "ticket/card loss"

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TECHNICAL SPECIFICATION

MODEL	TRGMW-LDV4
Display Language	English, Spanish, Korean, Japanese, Arabic, etc.
Applications	Parking lots, residential communities, shopping malls, hotel entrances, car washes, etc.
Ports	TCP/IP ports, Power supply ports
Hardware Configuration	Camera: 1nos Display Part: 4 lines display and traffic light with control board. Filling light: 1nos.
Cabinet Material	Iron Plate Metal 2.0
Camera Pixels	1/3 CMOS, 2M Pixel
Dimension	360 x 150 x 1600 mm
Weight (KG)	35
Recognition Distance	3 – 10m
Recognition Speed	< 30 km/h
Communication Interface	TCP/IP
Rated Voltage	220v / 110v +- 10%
Display Size	64 x 64
Character Color	Black
Filling Light Voltage	Automatic Light Sensor <30 lux
Working Temperature	-25°C - 70°C
Working Humidity	< 85%

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