

ViPRO VP205-LPR

License plate recognition Camera

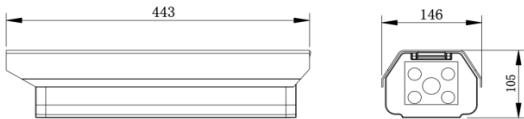
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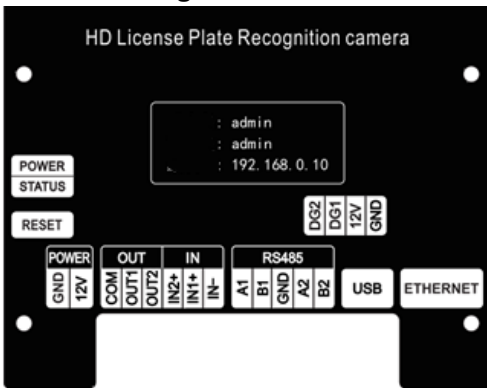
Key Features

- All day license plate recognition rate higher than 97%
- Monocular license plate anti-counterfeiting technology
- False license plate detection and identification
- Stable recognition at wide-angle
- Wide-distance recognition at 2-12 meters
- Video compression technology H.264 / JPEG
- Support PC local recording
- Support TF card storage
- Three detection methods: coil detection, video detection, coil detection + video detection
- Video/picture overlay watermark
- Whitelist import and export function, fuzzy matching on whitelist
- Manual key reset
- Support multi countries' license plates
- OSD information overlay function
- Surge protection level: 6KV

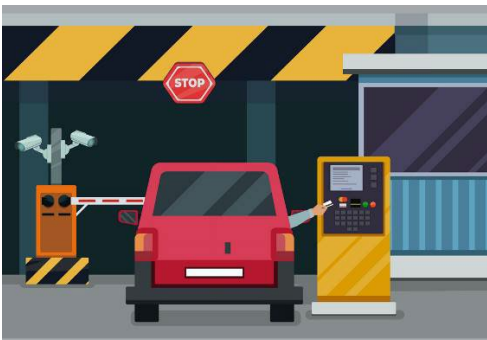
Dimensions



Schematic diagram



Application



VP205-LPR is a high-definition License Plate Recognition Camera embedded with low-power, high-performance ARM processor and low-light Starlight CMOS sensor. It is an intelligent license plate recognition device integrated with on-board license plate recognition, camera and storage.

VP205-LPR is tailor-made for the parking lot industry and 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, community, highway entrances and exits, garage ground locks, unattended vehicle washing shops, etc.

Technical Parameters

| | | |
|-------------------------|--------------------------------|---|
| Intelligent Recognition | Model | VP205-LPR |
| | License plate recognition rate | ≥97% |
| | Front inspection | Support for front detection |
| Video input | Type of Plate | Argentina, Brazil, Bolivia, Chile, Colombia, China, Dubai, Ecuador, Europe, Guyana, Indonesia, HKG, Malaysia, Paraguay, Peru, Singapore, South Africa, Taiwan, Thailand, Turkey, Uruguay, USA, Venezuela, Vietnam, etc. |
| | Sensor type | 4 Megapixel Starlight CMOS |
| | Resolution | 2560x1440 |
| | Lens and focal length | 2.8~12mm zoom lens |
| | Illumination | 0.1 Lux color |
| | Electronic shutter | 0-10ms (5ms by default) |
| | Exposure time | 1/100 ~ 1/10000s |
| | Interface | M12 |
| Video output | ONVIF | Support |
| | Video Resolution | 1920x1080, 1280x720, 704x576, 352x288 |
| | Compression standard | H.264/MJPEG |
| | Compressed output bit rate | 384Kbps~4Mbps |
| | Maximum frame rate | Main-stream 25FPS, sub-stream 25FPS |
| | Image setting | Adjustable shutter, gain, brightness, etc. |
| | Noise reduction | 2D/3D noise reduction |
| | Capture trigger type | Video, coil, video + coil |
| Functions | False license plate | Anti-counterfeiting rate over 99% |
| | Built-in fill light | Built-in 4 LED fill light, adjustable brightness |
| | Output information | Vehicle big picture, license plate small picture, license plate number, license plate color |
| | OSD information overlay | Define time, location, license plate, etc. |
| | 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 whitelists import and export functions |
| | Main and auxiliary mode | Support main and auxiliary camera mode |
| | Offline charge | Support offline charging function |
| External interface | Network | 1x RJ45 10/100Mbps adaptive network port |
| | Communication | 2x RS485 ports |
| | Power supply | 1x AC 220V voltage indicator |
| | I/O Input | 4-way switch input (default switch quantity to switch different level signals) |
| | I/O Output | 2-way switch output (relay) |
| | Reset | 1x reset button |
| | Storage | 1x TF card s |
| | USB | 1x standard A type USB port |
| Working environment | System indicator | 1x GPIO status indicator |
| | Power supply | 12V DC |
| | Power consumption | Turn off the light <4W, turn on the light <5W |
| | Static electricity | Contact 6 kV, air 8 kV |
| | Surge | Electric surge 2 kV, Interface surge 6 kV |
| | EFT | Power supply EFT 2 kV, Data cable EFT 2 kV |
| | Working temperature/humidity | -30℃~+75℃, <95% (no condensation) |
| | Protection level | IP65 |
| Outlook | Dimension | 443mm × 146mm × 105mm |
| | Weight (kg) | 1.8 |

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Function Specifications

| Category | Item | Description |
|-----------------------|--|---|
| Recognition Algorithm | License plate recognition rate | 97% or above |
| | Unlicensed vehicle detection rate | 99% or above |
| | Anti-counterfeiting rate | 99% or above |
| | Recognition angle | The maximum angle on the left and right is 65°, maximum angle up and down is 60° |
| | Stable recognition rate at a large angle | 97% or above |
| | Recognition distance | 2~12 m |
| | Vehicle speed | 45km/h |
| | License plate recognition type | Able to recognize license plates of Argentina, Brazil, Bolivia, Chile, Colombia, China, Dubai, Ecuador, Europe, Guyana, Indonesia, HKG, Malaysia, Paraguay, Peru, Singapore, South Africa, Taiwan, Thailand, Turkey, Uruguay, USA, Venezuela, Vietnam, etc. |
| | Vehicle structuring information | Able to recognize different vehicle features, such as the vehicle model, vehicle type, and vehicle color |
| | License plate recognition features | Number, color, type and width |
| | Whitelist of license plates | Adopt rules to accurately, intelligently and fuzzily match license plates in the whitelist |
| | Intelligent calibration | Able to calibrate the license plate number, license plate type and license plate color intelligently with the accurate or wildcard methods |
| Imaging | Basic configuration | Embedded intelligent ISP algorithm Able to intelligently optimize the dimming algorithm and intelligently adapt to complex scenarios. Basic parameters (brightness/definition/gain/ exposure time) can be set independently. |
| Video | Video compression standard | H.264/MJPEG; |
| | Video resolution | 352*288, 704*576, 1280*720, 1920*1080 |
| | Compress the output bitrate | 384Kbps ~ 4Mbps |
| | Frame rate | 1 ~ 25 frames (the default value is 25fps) |
| Communication | Communication protocol | SDK, HTTP, MQTT, ONVIF, RTSP, TCP/IP, UDP, NTP, DHCP |
| | HTTP push | Able to upload recognition results, and re-upload them offline |
| Networking | Offline networking | Without any upper computers or servers, operation networking can be achieved among different cameras |
| | Offline billing | Able to set billing rules according to the vehicle type, duration, frequency, time period, and time ladder. |
| | Blacklist and whitelist | Able to satisfy the requirements of vehicle classification management with the strategy. |
| | Primary and secondary cameras | Multiple cameras can be added to the same entrance/exit, such as one primary and one secondary, which can be applicable to scenarios with the big angle or wide entrance/exit |
| | Screen display protocol | Able to be connected to mainstream brand LED screens, and output recognition/billing results |
| Management | Management protocol | PC/mobile terminal management, PC management tools, SDK development suites, and HTTP push |
| | Cloud management | Remotely manage a single camera, uniformly manage multiple cameras through the account, and support the cloud SDK development management platform |