License Plate Recognition

watermelon

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The Watermelon License Plate Recognition (LPR) system is a simple yet accurate system used for monitoring and capturing the license plates of vehicles that enter and exit your car park and can also be used as a security camera for streaming and recording video.

Watermelon LPR is much faster and more efficient than traditional access control systems and enables greater entry and exit point volumes which results in higher vehicle turnover and patronage at your property.

Features

- On-board ALPR processing ensures performance and scalability
- Varifocal lenses to ease specification and design.
- Power over Ethernet Plus (PoE+) enabled to simplify deployment
- IP67-rated enclosure allows for operation in extreme weather conditions and harsh environments
- Built-in illumination for around-the-clock operation.
- Simultaneously read license plates and stream video
- On-board I/Os for integration to induction loops or gates

Benefits

Equipped with high-resolution ALPR and context cameras as well as on-board illumination, it covers a wide field-of-view and provides high-quality images and video, day or night.

Watermelon LPR further enhances your customer loyalty program whereby the system can alert you members arrive and special offers can be made or a simple welcome message can be delivered to your VIP customers.

With processing on-board, only plate read data needs to be transferred over the network, this means decreased data load on the network and server as all the image processing and analysis is done in the unit. The cameras are not dependent on the server, hence providing uninterrupted coverage even when connectivity goes down.

Specifications

LPR camera sensor1280 x 960 @ 30 fps; monochrome; global shutter
Capture range Standard Range: 9–60 ft (3–18.25 m)Long Range: 60–115 ft (18–35 m)
Dimensions 2.5 in ×7.6 in ×8.5 in (63 mm ×192 mm ×214mm)
Weight 5.04 lb (2.29 kg)
Illuminator Pulsed LED illuminator for effective use in0 lux (total darkness) environments 940nm, 850nm, 740nm and 590nm illumination wavelengths available
Context camera sensor (not in ITS model)1280 x 960 @ 30 fps; color; global shutter
Operating Temperature-40°F to 140°F (-40°C to 65°C) ambient
On-board Analytics Single-camera speed estimation, direction of travel and virtual loop
Power supply PoE+ (Power-over-Ethernet) - 802.3at Type 2 (25.5 W)
CablingCat5e cable (special connector provided for IP67 rating)
Sealing (Water/Dust Protection) IEC 60529: IP66/IP67
Still image compression JPEG compression for ALPR and Context still images
External interface1 x 10/100/1000 Base-T Ethernet port
Video streamingH.264 @ up to 30 fps; MJPEG @ up to 15 fps
Vibration & ShockIEC 60068-2-64: 5~100Hz | 0.5 g rmsIEC
60068-2-27: 10g | 16ms half-sineNEMA TS-2: 5~30 Hz | 0.5 g double-amplitude
Electromagnetic immunity & emissions FCC part 15 Subpart B | ICES-003 Issue 4 | CISPR32 / EN55032 | CISPR 24 / EN 55024
EMC Directive (CE marking)2014/30/EU
External I/Os2 inputs / 2 outputs (opto-isolated)