

ANPR CAMERA

A genuine multi purpose AI camera, designed to built-in and for standalone installation

- 4K and IR sensitive camera
- Performs license plate recognition, video analytics and additional classification tasks at the same time at high framerates.
- Distincts cars from trucks, knows the direction of vehicles and completes recognition results with contextual data.
- Designed to connect with any third party system, it adds AI based license plate recognition to access control and parking solutions.



| Technical specifications | |
|---|---|
| Embedded camera system | <ul style="list-style-type: none"> - All video processing and analytics is performed on board - No need for extra server capacity or power supply - Transmitting just the detection results and metadata ensures low bandwidth usage and privacy - Operation continues during Internet failure - Dual camera system: on board 4K and IR sensitive camera - Built-in IR illumination - ONVIF compatible video streaming - Powered by CortexFramework |
| Built-in and stand alone | <ul style="list-style-type: none"> - Wall, pole or ceiling mounting options all available - Built-in kit for integration into any bollard, access control periferral, EV charging unit and scan or patrol vehicle. - Single cable installation by PoE+ for power and network connectivity |
| Dual camera system generating images ideal for recognition | <ul style="list-style-type: none"> - 4K full colour sensor - IR sensitive sensor - Recognition quality images / video - Day and night performance - All weather and lighting conditions |
| Run multiple deep learning tasks in parallel | <ul style="list-style-type: none"> - People or object tracking, counting and detection - Movement analysis; for instance intrusion detection - Binary vehicle classification to detect unreadable license plates - Multiple class vehicle classification for traffic modalities - Custom trained networks |
| ANPR optimizations | <ul style="list-style-type: none"> - A daylight filter, infrared sensitive camera and built-in illumination for LPR in all weather and lighting conditions - 4K camera for overview, recording and extra source for ANPR processing - Accurate and fast ANPR engine based on deep learning and computer vision technology - Country specific syntax check - Vehicle classification to detect unreadable license plates - Direction of travel detection - Tailormade ANPR modules |
| Rule engine | <ul style="list-style-type: none"> - On board rule engine to trigger alarms and notifications on predefined events - Connector Axons to output the notifications to any third party system - High quality AI recognition minimises false alarms - Able to make autonomous decisions on predefined rules |
| Weatherproof and wide temperature range | <ul style="list-style-type: none"> - Deployment in any outdoor or industrial environment due to a rugged design and IP66 rating - Wide temperature range to ensure worldwide operation |
| Integration and connectivity | <ul style="list-style-type: none"> - Built-in Database, FTP server and Webservice (REST) connectivity - Built-in interfaces for e.g. Wiegand, RS485 and OSDP - I/O ports to operate and read electronic devices - Ready made connectors to VMS, POS, loyalty, PSIM, SMS, Access control and other management systems. - Triggers and actions - SDK for client side application development - ONVIF compatible video streaming |
| IO pins | <ul style="list-style-type: none"> - Built-in interfaces for e.g. RS485 and OSDP - I/O ports to operate and read electronic devices |
| Embedded video recording | <ul style="list-style-type: none"> - On board video storage capacity enables edge based recording - For incident tracking and performance monitoring - Cloud based video management - Bookmarking - Searchable video fragments |



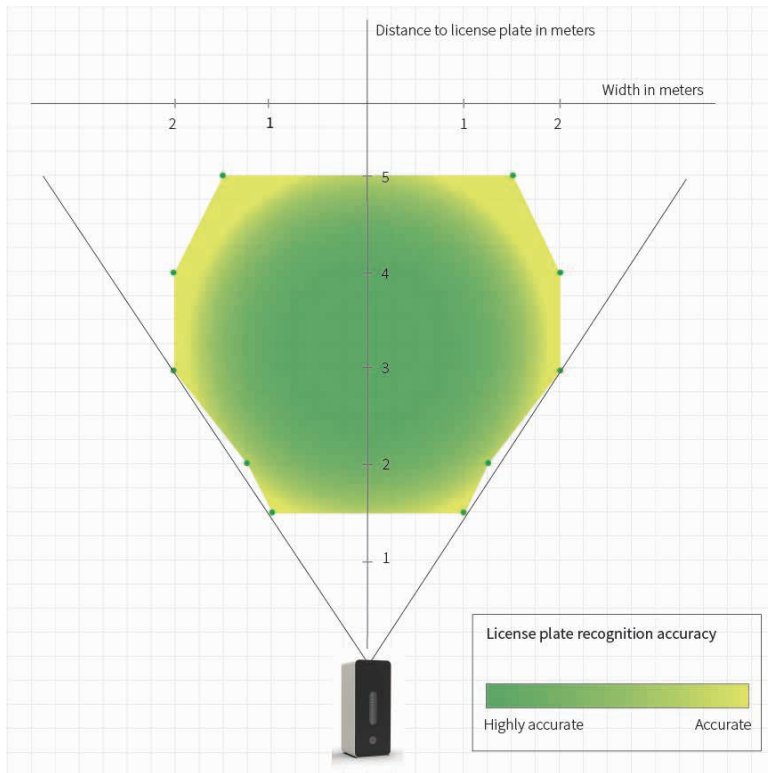
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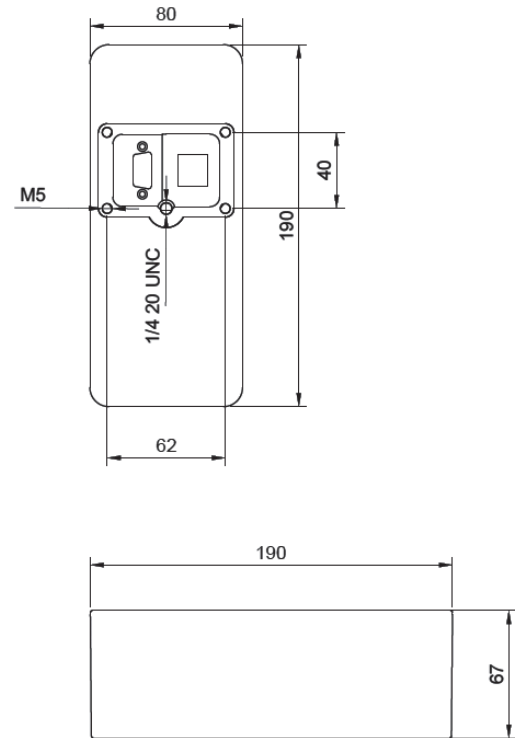


ALPHASYSTEMS
innovators in access technology

Range chart



Dimensions



Technical specifications

Cameras

| | |
|-----------------------------|---|
| Image size IR sensor | 1600 x 900 resolution, 25 fps, monochrome |
| IR camera | Infrared sensitive sensor |
| Overview camera | Color camera, low light sensitive, 30 fps |

Operating conditions

| | |
|-------------------------|--|
| Recognition area | - 2-5 meters - Project adjustments possible |
| Max lane width | 4 m see range chart. |
| Vehicle speed | 0-30 km/h |
| Temperature | -18°C to 45°C environment |

Enclosure

| | |
|-------------------------|-----------------------------------|
| Measurements | 190 x 80 x 67 mm (L x W x H) |
| Weight | 0,75 kg |
| Material | Powder coated aluminum zinc alloy |
| Protection level | IP67 |
| Color | RAL9002 |

Power

| | |
|---------------------|--|
| Power supply | - PoE+ IEEE802.3at, 30W - 12 - 48 Volt regulated DC |
|---------------------|--|

Hardware

| | |
|------------------------|---|
| Illumination | Synchronized 850 nm illuminator |
| Daylight filter | Filtering sunlight and headlights. Only allowing infrared light passing through |
| LED's | High power white LEDs |
| Processing unit | - Embedded quad core 2.0GHz, 64 bit CPU - Neural processing unit |

Connectivity

| | |
|--------------------------------|--|
| Communication ports | 1 x 10 / 100 / 1000 Base-T Ethernet port |
| Inputs / Outputs | - 2 x potential free contacts NOC + NCC - RS485, 3 EXT power and 4 x ground |
| Communication protocols | RS485, OSDP, http, https, ftp(s), JSON, ONVIF profile S |
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