



MVC-IVA-LPRX IVA Pro License Plate + Make Model

IVA Pro



Based on advanced deep learning techniques, Intelligent Video Analytics (IVA) Pro License Plate + Make Model excels both in real-time identification of license plates and in recognition of vehicles in parking applications or city environments.

It supports strategies that improve traffic flow, reduce congestion, and enhance safety at intersections, toll booths, and parking facilities. It ensures reliable and precise data capture for automated ticketing systems, traffic enforcement, and smart parking solutions.

It enables more refined forensic search for specific vehicles. It ensures reliable and precise data capture to ensure reliable search results in the video management software.

Functions

Detecting and recognizing license plates in stop and go and city traffic

IVA Pro License Plate + Make Model is a deep neural network based video analytics that detects and reads license plates on moving vehicles (car, van, bus, truck, motorbike). The license plate information is transmitted in real time via different protocols ensuring easy integration.

Detecting and recognizing the manufacturer and model of vehicles in stop and go and city traffic applications

IVA Pro License Plate + Make Model is a deep neural network based video analytics that detects and recognizes the make and model of moving vehicles (car, van, bus, truck). The make and model information is transmitted in real time via different protocols ensuring easy integration.

- ▶ Detects and recognizes license plates
- ▶ Recognizes vehicle make and model
- ▶ In-camera list management for access control or alarming on wanted vehicles
- ▶ Ideal for stop and go and city traffic scenarios

In-camera list management

IVA Pro License Plate now includes in-camera list management, supporting up to 16 configurable lists with a total of 5000 license plate entries. Events and relay outputs can be triggered based on list matches for automated responses.

Ideal for access control on parkings where the camera relay can control the barrier, or to get alarmed when a wanted vehicle is detected by the camera.

Regulatory information

| Region | Regulatory compliance/quality marks | |
|--------|-------------------------------------|--|
| Europe | AI Act | Self-declaration IVA Pro License Plate Recognition |
| | AI Act | Self-declaration IVA Pro Vehicle Make Model |

Parts included

| Quantity | Component |
|----------|-----------|
| 1 | License |

Technical specifications

Detection

| | |
|-------------------------------------|--|
| Maximum speed of the vehicle (km/h) | 120 km/h |
| Maximum speed of the vehicle (mph) | 75 mph |
| Number of road lanes | Maximum: 2 lanes; Best performance: 1 lane |

| | |
|--------------------------------|---|
| Detection resolution (px) | The device optimization profile determines the LPR detection resolution: Balanced: 2MP/4MP/5MP/6MP cameras: 1280 x 720 px 8MP cameras: 1024 x 576 px IVA optimized: All cameras: 1920 x 1080 px Notice: In IVA optimized mode the streaming capabilities of the cameras are limited. |
| Required pixels on target (px) | Minimum 16 px on character height of license plate |
| Make | >140 manufacturers |
| Model | >2000 different models |
| Scope | Access control; City traffic; Refined forensic search |
| Section integration | MQTT; Webhook (JSON); ONVIF; Bosch Metadata |
| In-camera list management | Up to 16 lists; Up to 5000 license plate entries (total of all lists); Events and relay control on list matching |

Supported countries

For a list of supported countries, refer to https://media.boschsecurity.com/fs/media/pb/media/products_1/video_systems_1/technical_documentation/IVA_Pro_License_Plate_-Supported_Countries_and_States.pdf.

Compatibility

For information on supported cameras, refer to the Bosch Video Product Selector:
www.videoselector.boschsecurity.com

Configuration

Configure IVA Pro with Configuration Manager, a free software available for download from this website: <https://downloadstore.boschsecurity.com/>.

Ordering information

MVC-IVA-LPRX IVA Pro License Plate + Make Model

Video analytics software based on deep neural network technology for detecting license plate and vehicle information.

Order number **MVC-IVA-LPRX**



<https://www.boschsecurity.com>