Automatic License Plate Recognition

developed since 2006

eyedea RECOGNITION

> 99% HIGH ACCURACY	**< 6ms** FAST	**text + country code** RECOGNIZED	**Extreme Condition Accuracy**
ADR plates INCLUDED	**day + night** LIGHT	**multi-line plates** INCLUDED	**Extreme angle ready**

Automatic License Plate Recognition (ANPR)

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Eyedea's Automatic Number Plate Recognition (ANPR) technology is powered by two core AI components: a deep-learning object detector and an advanced OCR engine, both specifically trained for highly accurate license plate detection and reading.

Advanced Object Detection

Our AI-based object detector goes far beyond standard license plate detection. Built on deep neural networks, it reliably identifies:

- All road users, including pedestrians, animals, cyclists, motorbikes, and vehicles
- Key vehicle components such as windshields, axles, and license plates

This comprehensive detection capability enables robust analysis in complex traffic environments.

Precise License Plate Localization

In addition to detecting license plates, the system precisely localizes their corner points. This allows for accurate normalization of plates captured from sharp or unconventional angles, ensuring consistent and reliable text recognition even in challenging conditions.

High-Accuracy OCR

The software reads all license plates present in images or video streams and recognizes their content with high precision. It supports:

- Single-line and multi-line license plates
- Special characters and regional formatting
- State and country of registration
- ADR plates (dangerous goods codes)

Key Advantages

- Accurate license plate localization from a wide range of viewing angles
- Reliable recognition even from low-quality or noisy data
- Instant state and country recognition
- Unreadable Plate Detection: Identification of plates that are damaged or illegible.
- Obstruction Awareness: Reliable detection of partially covered or obstructed license plates.

Typical Applications

- Electronic toll collection (e-tolling)
- Law enforcement and police systems
- Parking and access control solutions
- Parking zone management
- Traffic safety and surveillance systems
- Governmental and municipal applications
- Traffic infrastructure planning
- Smart city solutions

Global Coverage

We offer five region-optimized license plate recognition engines, tailored for:

- Europe
- The Americas (North & South)
- Oceania
- Middle East & Africa
- Asia

In addition, we provide a global World-Wide OCR engine for mixed or international deployments. Each new ANPR release is continuously extended to support newly introduced license plate types worldwide.

Deployment Options

- SDK
- Desktop & Console application
- REST server
- Cloud service: www.trafficeye.ai

Eyedea Recognition provides global partners with high-performance visual recognition technologies powered by cutting-edge AI. While our roots lie in pioneering ANPR, our flagship expertise today is Advanced Make and Model Recognition (MMR)—delivering industry-leading accuracy in identifying vehicle brand, model, generation, and color.

Founded in 2006 as a spin-off from the Czech Technical University in Prague (CTU), Eyedea has spent nearly two decades at the forefront of primary AI research. Born from the prestigious Centre for Machine Perception, we continue to bridge the gap between academic excellence and industrial application. By maintaining deep ties with elite research teams, we ensure our proprietary models for traffic analysis and automotive monitoring always reflect the latest breakthroughs in machine learning.

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