M³ MODULE: MMR AT SERVER LEVEL

If you would like to recognize the vehicle characteristics on camera images – such as **vehicle category, make, model** or **color** –, and you want the recognition process to be performed at the **server level**, then this module is developed and designed to meet your requirements.

MMR stands for "Make and Model Recognition" and is an **AI-based algorithm** which is able to analyze vehicle appearance and recognizes vehicle category, make, model and color.

The latter analysis is independent of number plate reading.

Whether the server is locally based or cloud-based, this module will provide the details of a detected vehicle from most traffic cameras providing an acceptable quality level of image. All vehicle information becomes easily accessible via the software platform.

Vehicles with trailers, e.g. cars or trucks with trailers, can also be categorized thanks to this module by additionally using our dedicated range of cameras capable of ascertaining **vehicle length**. By combining both the vehicle category recognized in the image and the derived vehicle length, it is possible to determine the precise vehicle category.

KEY FEATURES

- Recognize **10 vehicle categories** (bus, car, heavy truck, light truck, van, …)

- Recognize **over 200 vehicle makes** (Toyota, Volkswagen, Renault, …)

- Recognize **over 1.700 vehicle models** (Avensis, Passat, Mégane, …)

- Recognize **10 colors** : red, blue, gray, etc.

- **Category classification** accuracy is **higher than 99%**

- **Make and model classification** accuracy is **higher than 98%**

- **Execution speed** is **less than 10 milliseconds per vehicle**

✓ Ready to use with

MACQ MOBILITY MANAGER

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