# carGuroo

## a native born license plate recognition and vehicle classification plugin for Milestone XProtect

The application carGuroo is designed to capture and recognize all vehicle license plates quickly and accurately. It also recognizes a vehicle's make, model, type and color at speeds up to 250 km/h (155 mph) across 4 lanes. Customers can use the collected data to create alarms or trigger actions via Milestone analytic events or alarms.

Plus, native integration with FF DataFactory (Data fusion platform) extends the functionality of carGuroo by providing insights through convenient dashboards and charts.

> Superfast and accurate license plate recognition and vehicle classification by make, model, type and colour

> Native-born. Plugin fully manageable from XProtect Management Client

> Alarm Manager integration

> Analytic events integration for triggering actions (incl. barrier opening)

> All supported regions in one license

> Multiserver architecture for projects of any scale

| | |
|---|---|
| Number plate: | FF 1111  FF 1111 |
| Make: | Mazda |
| Model: | MX-30 |
| Type: | SUV |
| Color: | Blue |

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# carGuroo

## A native license plate recognition and vehicle classification plugin for Milestone XProtect

### Product specifications

**Any XProtect integrated camera supported**

**The number of recognized road lanes:** up to 4 lanes

**Recognition speed**: up to 250 km/h (155 mph)

**Make and model data set:** 1000 models, 100 brands

**Classification:** 7 types (car, SUV, LCV, van, truck, bus, moto)

**Vehicle colors:** 11 (black, white, red, green, blue, yellow, orange, brown, silver, gray, beige)

**License plate recognition accuracy:** >97%

**Make and model recognition accuracy:** >90%

**Groups, Allowed and banned lists management**

### System requirements

**Minimum:** Intel® Core™ i3-10105T Processor, 16 GB RAM, HDD free space: 500 Mb installation, 180 GB for DB* (for 1 channel)
*For low traffic with an average of 2000 events per day

**Recommended:** Intel® Core™ i9-10980XE Extreme Edition Processor, 32 GB RAM6

**HHD free space:** 500 MB installation, 2 TB for DB* (for 16 channels)
*For medium intensity traffic with an average of 10000 events per day

**Supported OS:** Windows 10/11 PRO, Enterprise, Windows Server (64 bit) 2019, 2022 Essentials, Standard and Datacenter

**Supported XProtect versions:** Milestone XProtect 2023 R1 and newer (Express+ or higher)

### Integration

**FF DataFactory**

**Milestone XProtect**

### Main product features

**Detects and recognizes vehicle registration plates** (incl. tractor, trailers, motorcycles etc.)

**Recognizes vehicle make, model, type and color of vehicle**

**The plugin works with own FF Group database** (200M of events)

**Data sent to the XProtect Event Server via Milestone Alarms or Analytics events**

**Groups and allowed and banned lists management**

**4 flexible recognition zones**

**Evidence reports**

**Data transfer to FF DataFactory** (AI road traffic data platform)

### Additional product features

**Saves recognition time with every event** (timestamp)

**Works in real-time mode** (exchanges data automatically and simultaneously)

**LPR and MMR threshold configuration**

**Saves recognition time with every event** (HTTPS, self-signed certificates)

### Regional coverage

**LPR+MMR coverage countries:**
All european countries (51) + CIS + UK + Turkey + Israel, South Africa, Australia, Canada, USA, Mexico

**LPR coverage countries:**
Indonesia, New Zealand, Vietnam, Taiwan, Hong Kong, GCC (UAE, Saudi Arabia, Oman, Kuwait, Bahrain, Qatar), Chile, Paraguay, Uruguay, Colombia, Brasil, Argentina