



**EUNOMIA** TRAFFIC

**INNOVATING SPEED ENFORCEMENT  
FOR SAFER ROADS**

# Eunomia SM 21

Introducing the first fully automated in-car system with speed detection in-motion, 360° ANPR, and video recording for enhanced traffic offense detection



## Speed measurement

### INTEGRATED SPEED

Eunomia Traffic is equipped with the smart micro automotive radar sensor. Speed measurements are captured using front and rear cameras, and the data is stored in the database as evidence.

The SM21 radar sensor can simultaneously measure up to 50 targets within a distance of 200 meters, making it a key feature for speed detection in motion.

### DETECTED SPEED LABELS

Eunomia Traffic offers precise speed detection for every vehicle within the field of view (FOV).

Non-violators are represented by green circles, while violators are denoted by red/green circles, accompanied by clear markings of their speed, distance, and event ID indications.



### PRECISION LIMIT

Up to 100 km/h:  $\pm 1$  km/h  
Over 100 km/h:  $\pm 1$  %

## 360° ANPR

### SUPER FAST ANPR CHECK

Get results within less than a second, with an even faster database check.

### SMART ALGORITHM

Delivering only reliable readings without junk and with the highest confidence.

### 360° RECOGNITION

Achieved through surveillance from four cameras.

### LIVE LINK TO MULTIPLE DATABASES

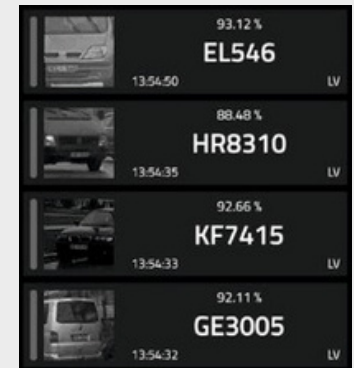
Efficiently check number plates across different registries and databases.

### HISTORICAL DATA FOR SPECIFIC VEHICLES

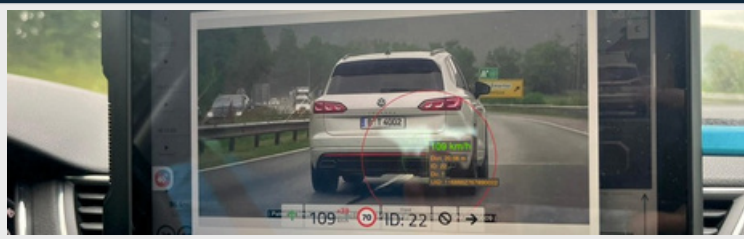
Access all past records and images associated with a particular vehicle.

### ACT OR PROCESS

Decide to take immediate action on detections or upload events to the back-office for processing at a later time.



## 360° VIDEO SURVEILLANCE



360° video capture capability with option to save video events for easy playback and review.

### ONE TOUCH RECORD

Ergonomic recording - with one touch on screen or REC button from every view.

### OFFENCE CATEGORISATION

Easy offence categorisation on the go for faster search and post-processing.

### EASY PLAYBACK

Playback Your records immediately or review them later on a tablet or back-office dashboard.



# SYSTEM AND INSTALLATION

No drilling of holes and no wiring work on the dashboard, can be 100% invisible on the vehicle's exterior, interface is operated by an easy-to-use tablet solution.

Eunomia Traffic is customizable - select only the parts You need for Your purposes, for example, only 360 degree surveillance or only speed enforcement kit and one camera for evidence, or full set of system with speed enforcement, 360 degree ANPR surveillance and 360 degree video surveillance.

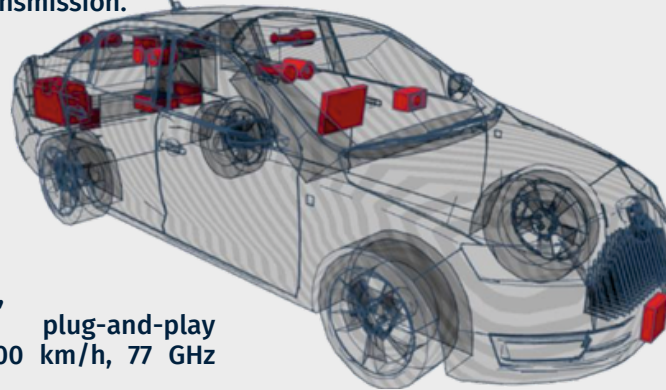


**ANPR & ZOOM CAMERA:**  
IP68 protection class, detects all kinds of license plates (reflective and non-reflective), PoE interface for a single-wire connection for data transfer and power transmission.

**VIDEO CAMERA**  
High quality imaging, excellent performance in low-light conditions, clear image against strong backlight, automatic focus on vehicles.



**PCU**  
High-capacity performance, automatic recovery, short-circuit protection.



**BATTERY**  
Very low self-discharge rate (2%/month), maintenance free, ideal work in harsh conditions, rugged impact resistance.



**SPEED SENSOR**  
200-meter range and 100° field of view, medium or long-range modes, plug-and-play connection, detects speeds up to 300 km/h, 77 GHz frequency.



**TABLET**  
Rugged design, highly durable, IP68 and anti-shock build, up to 15 hours of work from a single charge, large touchscreen.



## UNIX based platform for better performance and reliability

Approved by:



The professional industrial PC base is used for the back-end system in the car, which ensures a robust and reliable technical solution, so Eunomia Traffic can run without any interruptions or faults.

Created by:



**EUNOMIA** TRAFFIC



**360°  
ANPR**

**360°  
VIDEO**

## SIMULTANEOUS SPEED MEASUREMENT

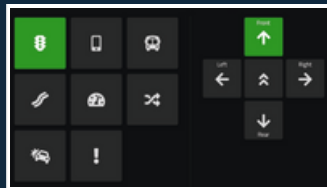
Up to **50** In **200M**  
TARGETS TARGET DISTANCE

WITH  
FRONT,  
REAR  
RADARS

SUPER FAST ANPR CHECK  
result within less than a second

OPTIONAL  
body worn cameras

### VIOLATION CATEGORIZATION



AT  
LEAST  
**5**  
EVENT  
IMAGES  
PER  
VIOLATION

AUTOMATIC DETECTION OF  
SPEED VIOLATION

SPEED VIOLATION

PROGRESSION GRAPH

PREDEFINED OR  
CUSTOM SPEED LIMITS



HISTORICAL  
DATA ON  
VEHICLE  
VIOLATIONS

MEASURING ACCURACY:  
up to 100 km/h:  $\pm 1$  km/h;  
over 100 km/h:  $\pm 1$  %

TRAFFIC ERROR LIMIT:  
up to 100 km/h:  $\pm 3$  km/h;  
over 100 km/h:  $\pm 3$  %