

The Auto-Uragan module functionality

The **Auto-Uragan** software module supports the following functionality:

1. License plates identification;
2. Saving the identified number to the plates detector database;
3. Identification and logging the determined speed of the vehicle to the plates database (by video or using the **Radar** module);
4. Identification and logging the determined class of a moving vehicle to the plates database (while connecting the Traffic detector module);
5. Check of identified license plates via connected search database;
6. Possibility to work with multilane driveway;
7. Identification of extended list of license plates types: all types of Russian license plates, all CIS countries and Baltic States, countries of Europe, Latin America and The USA. Worked out the main types of single- and double-line plates of different countries, for each both civil and specialized (diplomatic, transit, military etc.). The full list of countries is given below.
8. Plates filtration according to their characters' sizes
9. Possibility to change level of plates' identification quality
10. Saving the frames of the identified plates to bmp, jpeg and avi formats
11. Calculation of the capture lanes in the area of identification restriction
12. Setting the alarm when the vehicle entering an oncoming lane.

The **Auto-Uragan** software module uses the IPP 6.1 library.

The **Auto-Uragan** software module can work in one of the following modes:

1. Slow — the module processes the video stream with the speed not exceeding 3 fps and recognizes license plates of vehicles moving with speed not more than 10 km/h.
2. Fast – the module processes the video stream with the speed not exceeding 25 fps and recognizes license plates of vehicles moving with speed not more than 150 km/h.

Auto-Uragan module allows recognition of vehicles' license plates of the following countries:

Note.

The list of countries below is actual at the moment of documentation creation. Contact an AxxonSoft manager to find out the most relevant list of countries supported.

1. **CIS + Baltic + Georgia**

- a. Abkhazia
- b. Belarus
- c. Georgia
- d. Kazakhstan
- e. Kyrgyzstan
- f. Latvia
- g. Lithuania
- h. Moldavia
- i. Russia
- j. Tajikistan
- k. Turkmenistan
- l. Uzbekistan
- m. Ukraine
- n. Estonia
- o. South Ossetia

2. **Europe**

- a. Austria

- b. Belgium
- c. Bulgaria
- d. Bosnia and Herzegovina
- e. United Kingdom
- f. Hungary
- g. Germany
- h. Greece
- i. Denmark
- j. Spain
- k. Italy
- l. Luxembourg
- m. Netherlands
- n. Norway
- o. Poland
- p. Portugal
- q. Romania
- r. San Marino
- s. Slovakia
- t. Slovenia
- u. Turkey
- v. Finland
- w. France
- x. Croatia
- y. Czech Republic
- z. Switzerland
- aa. Sweden

3. North and South America

- a. Argentina
- b. Brazil
- c. Paraguay
- d. USA
- e. Uruguay

4. Africa

- a. Morocco
- b. Tanzania
- c. South Africa

5. Southeast Asia

- a. India
- b. Malaysia
- c. Singapore
- d. Thailand

6. Australia and Oceania

- a. Australia
- b. New Zealand

 **Note.**

Missing countries except for the listed above can be added into the recognition module if necessary. For that, contact your AxxonSoft manager and provide him or her a video recording with license plates of the required country. The final decision on adding a country to the module is made by the module manufacturer.

 **Attention!**

Ask the manager of AxxonSoft company about the possibility to recognize special licence plates (e.g. two-lanes, motorcycles' LP, special vehicles' LP) for each country.