



ROBOCV LTD.

FOUNDED

in **2012**

[Grant received]

CORE OF THE INNOVATION

Developing a universal navigation complex "an autopilot for transport robots".

APPLICATIONS OF THE PRODUCT

The complex is able to work as a part of the ground-based transport robots or water robots, unmanned aerial vehicles and autonomic planetary robots.

IMPLEMENTATION OF THE INNOVATION

ALREADY IN THE END OF **2013**;
MASS PRODUCTION STAGE IN
2015–2016.

PEOPLE

GENERAL DIRECTOR:
Sergey V. Maltsev

Peculiarities of the product

1

«An autopilot» allows a mobile robot to always know about its location and the surrounding settings, and to calculate the route of the movement to the directed point taking into account static and dynamic obstacles on the way.

2

The complex is a compact device with several constructively interconnected navigation systems (inertial navigation system, GLONASS/GPS, technical video-vision), including software for processing data from these systems and feeding integral result to the external device-receiver. Also there are provided power supply and support of standard data exchange interfaces.

3

Applying several complementary positioning methods allows reaching unique precision of positioning and terrain orientation. The complex is a ready solution suited for direct installation into robotic systems of the clients.



Current development stage

1

There is developed a model of the product based on the automobile model. The system is able to calculate the route by itself and ensures autonomic movement of the automobile taking into account static and dynamic obstacles on its way.

2

The complex is able to automatically build a 2D map of the location; there are developments for automatic building a 3D map of the location. An operator from a remote computer can enter in the field map the end point of the route for the automobile model. This point is translated to the autopilot system by radio channel, and the automobile starts moving.

3

Along with the technological realization of the project, the company development strategy has been worked out, a business plan has been created, market analysis of the market niches has been conducted and first priority directions for working with the potential clients have been chosen.