

About Oriense

We were working on computer vision and navigation for robotics in Central R&D Institute of Robotics. Upon the advice of one blind person, we realized that our achievements could be adapted to help visually impaired people: after all, so were the robots we were working on. We make our products together with the blind community to produce useful and desired devices for our customers. We believe that modern technologies can tackle challenges of the blind and visually impaired. And our goal is to give any blind person an opportunity for new abilities




Let technology **see for you**


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New sense of independence and world exploration

Oriense is a talking device for blind and visually impaired, that solves three major problems: obstacle avoidance, geo-navigation and image recognition.

Our devices are already in use in Eastern Europe and our technology is generating a ton of positive and highly inspiring feedback, including stories and audio-podcasts.

Testimonials

"The tests was really great. It's nice to see what functionality this device has, it's very good that the device can tell things about the surroundings. And that you can configure the verbosity of what the device is telling."

Gert-Jan Bouma

"This is the most reliable navigator with the most detailed maps. After using for 30 minutes I became convinced that it is simply irreplaceable in the city. Guys, buy Oriense !!! Good incentive to integrate into society. Good luck to the developers!"

Max Belsky

"Everything really works like in the podcasts, I became convinced in practice. GPS running fast. I tried to add my geo-point, which worked great, and I returned exactly to the same place. Every day OrNavi only pleases"

Igor Volkov

"Many thanks to Oriense for stimulating me to walk everyday!"

Alia Nurullina

"First of all I want to thank you for creating the necessary devices for the blind.

Navigator catches satellites very good, very well designed navigation instructions, and a big plus is that OrNavi works with bluetooth devices and external cameras that extends the capabilities"

Alex



OrNavi



OrCV

OrNavi - multifunctional GPS / GLONASS navigator designed specifically for blind people. Fully autonomous, no need to connect to mobile networks. The design and interface are thought out for easy and intuitive device control and information receiving.

OrCV - special extension for the navigator that uses 3D-camera to gather information about the environment. It allows to navigate safely, especially by detecting dangerous objects in advance, as well it helps in recognition of different objects.

Features

- Describes the world around with high detailisation
- Does not require an internet connection
- High GPS/GLONASS sensitivity
- Detection of obstacles and passways
- Recognition: text, currency, color, QR/barcodes
- Easy to expand with other functionality (Daisy-player etc.)
- Comfortable and user-friendly

Specifications

- Navigation systems: GPS, GLONASS, Beidou, Galileo
- Local orientation: 3D-camera, distance range 0,75m – 5m
- Additional sensors: compass, accelerometer, gyroscope
- User interface: physical keyboard, speaker, haptic feedback, audio jack, microphone
- Battery capacity: >=8 A/h

