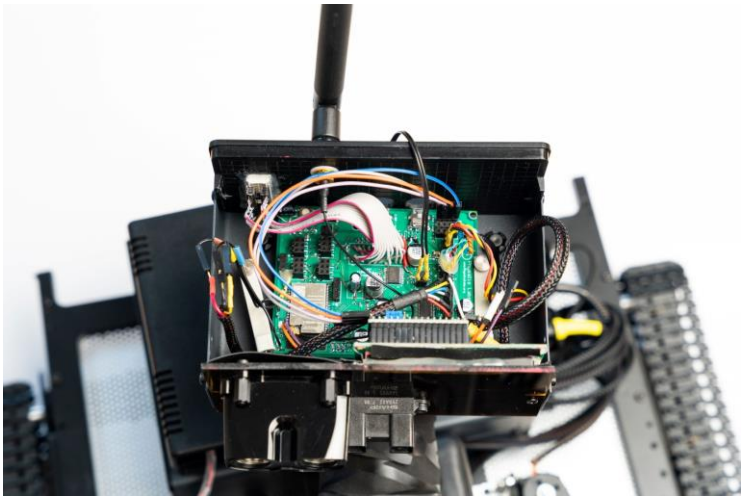
Kenji X-1

Complete Adaptable Small-Scale Automation for your application

Introducing Active Monitoring and Terrain Exploration Tele-Robotics System

Physalis Research Labs

At Physalis Labs, we've been developing robotics for active monitoring and terrain exploration since 2 years now.



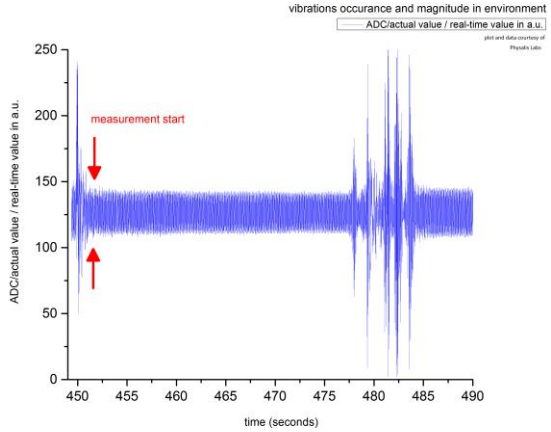
After verifying numerous existing market solutions we realized that they are limited in many ways. For instance their predefined body construction, lack of any sort of onboard measuring equipment, price-point and maintenance costs, and user-unfriendly toolchains, render them rather unsuitable for many real-world as well as lab oriented applications.

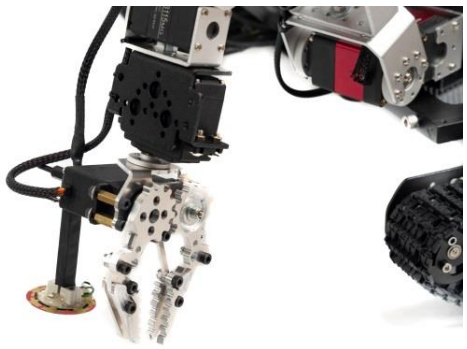
That's why we spent a lot of time and effort on developing a "truly modular" UGV platform. Thanks to its unconstrained design and modular structure, Kenji can be re-configured in minutes according to the application's demand. It brings a flexible hardware base, high degree of customization and built-in sensing systems, which, in-fact, can be utilized for various real-life measurements - on the field or in lab. Kenji embraces automation, meaning you don't have to spend more time and money on add-ons, tools or accessories.

We believe that Kenji UGV will accelerate access as well as understanding of the technology to students and developers and help to jumpstart them into robotics development.

With an uptime of more than 6 hours, the operator/user has access to high-power mechanized arms, onboard LIDAR, distance sensors, Environmental sensors, temperature and vibration measuring modules, various analog sensory arrays which enables users to start deploying and generating real-world data right away, eliminating the need to purchase expensive and complicated external instrumentation.

(Including SLAM, conductive sensing and logging of vibrations, streaming terrain environmental data over the network), storing and evaluating onboard, as well as streaming data is possible.





Of course users still have the options to add upon various external instrumentation up to 5 Kg including the 2 mechanized arms, rechargeable battery backpacks, or computation modules for 3D scanning, to name a few. At its core Kenji consists of combination of modules which together form the Kanji's personality. Indeed it's up to the user what configuration Kenji's will have. During numerous field testing, we could observe, that having a fixed and one piece chassis renders itself against the high degree of customization. Therefore each step of development process, the idea of a modular system and interchangeability was a major goal.

We've come a long way, and at this stage the prototype is undergoing extensive testing, and we are almost ready for Kenji UGV's launch. We plan to deliver many units to the hands of the makers, tinkerers and scientific and research groups around the world, and at the same time we hope to build a community. With crowdfunding and your support we will be able to lunch Kenji UGV.

Crowdfunding is an amazing possibility for us to get feedback from you about our idea. And for you, to get the Kenji-X1 before than anyone else, so we're excited to have you onboard in this mission.

Physalis Research Labs, Richardstrasse 110, 12043 Berlin, Germany