

Product Name

ViiO – Travel Aid for The Visual Impaired

Designer

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<https://www.behance.net/gallery/ViiO-Travel-Aid-for-the-Visual-Impaired/3975329>

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**Referring contact
for the Award**

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Description of innovation social values

- product category
- formal and functional features
- problems solved by innovation
 - user
 - field of application

Technology recently has been greatly developed for humans' lives. Its exponential advancement always amazes us again and again. Humans become a society that is passionately keep looking for new things without satisfaction. It may ease their lives but at the same time it is also giving a negative impacts for the society, and even sometimes used for bad activities such as phone prank, pornographic web, gun, online fraud, etc.

However, there is one specific society which is not up to and unable to enjoy this excitement of technology – the visually impaired society. Their lifestyle is still not influenced much by technology due to their incapability. Eventhough they want to, they can use it because the technologies we have now always use visual to interact with; being left out.

Hence, this project brings technologies to this unfortunate society so that they can keep up and live together with the global ones without social gap.

ViiO Travel Aid helps visually impaired people to travel independently with absolute confidence, just like general society. By incorporating the latest technologies into this set of two devices, Viitect and Viirect, it acts as smart and innovative navigation locally and globally to find direction during traveling which is very crucial for visually impaired individual.

"ViiO redefines the way the world looks at blind people, and the way blind people look at the world."

Description of technical features

- operations
- technology

Viitect (detect) is a device attached to a conventional white cane to detect any hanging obstacles at head level which are undetectable with a white cane. Maximizing the potential of ultrasonic sensor technology, Viitect will detect any hazards then alert the user by triggering vibration to the users' thumb. Together with the white cane, it gives complete feedback for a perfect and safe travel. **Viirect** (direct) is a voice-interactive Global Positioning System that enables the users to simply give input with voice and receive audio directional feedback for maximum practicality. Furthermore, these two devices are linked together via Bluetooth where the The purpose of the integrating system is to avoid interrupting the users' auditory perception which are very important to assimilate any information about the surrounding. **ViiCharge** is an inductive charging mat to charge both devices without removing the batteries or the cap, offering practicality and user friendliness.

Dimensions

Viitect = 50 x 42.5 x 195 mm
 Viirect = 50.6 x 29 x 98.7 mm
 ViiCharge = 182 x 215 x 18 mm

Materials

Using ABS plastic for the main construction which is sturdy and weather proof to maintain its durability, and using water-proof sealing rubber to protect the electrical components from rain or getting soaked.

Certifications

Benefits for environment

Using durable materials, ViiO is designed to be water-proof, weather-proof, strong and hence long lasting. It is also powered by rechargeable batteries. Hence it will minimize waste from both consumers and industrial production and yet providing such best solution for the target users.

Benefits for human being

ViiO helps the visually impaired people to live in the society independently with absolute confidence. This innovation aims to reduce the prevailing social gap between their society and the global society - giving them hope and ability to live together as a capable individual. This project also introduces 'technologies for the goods of the unfortunates' – maximizing its usefulness for needs, rather than just offering a never-ending-solution for the 'greedy' society.