

## Hikane

# Enhancing visually impaired navigation through intuitive haptic feedback

### In a nutshell

What if you could "see" with your hand? Visually impaired peoples totally/partially lost the ability to see and therefore having more trouble understanding their surroundings. Hikane offers a solution to help them understand their environment through touch. This solution is presented as a compact, intuitive device that can be attached to any standard white cane, alerting the user to nearby obstacles through haptic feedback.

### Why is our technology important?

The white cane is a simple and useful tool which helps people with visual impairment in their daily displacements. Unfortunately, it doesn't allow its user to detect obstacles above knee-height. According to our market study, 82% of the visually impaired report head accident at least once a year. This makes them feel more insecure and can lead to severe injuries. The solution Hikane, aims to create a more inclusive environment by significantly reducing the risk of injury for visually impaired individuals, thereby providing greater confidence when navigating outdoor spaces. In addition to preventing collisions with obstacles, our device enhances navigation by helping users identify key elements in their surroundings, such as tracking walls or locating pedestrian crossing indicators, etc.

### The benefits of our solution

- Enhance street inclusivity: Improve accessibility for individuals with visual impairments in public spaces.
- Simple and intuitive device: A plug-and-play solution that is easy to understand. Its simplicity and user-friendly design ensure comfort, making it ideal for everyday use.
- Designed to be used as a standard white cane: No need to learn a new navigation method for outdoor mobility.
- Intuitive Haptic feedback: non-intrusive and not disturbing during navigation.
- Easily attachable to any white cane:
  - Compatible with different types of canes.
  - Simplified device charging.
  - No need for additional wearable devices (such as gloves, glasses, earphones, etc.).

### Keywords

Visually impaired navigation, Simplicity, Intuitive, Compact, Haptic feedback.

### Founding Team

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