

Summary of our feedback:

Link to results of our form:

https://docs.google.com/forms/d/1HvP4BC4jiVMkmlcXMDtFSZ5CB-yMRr_3zi_5ObTsrPY/edit?usp=sharing

Functionality:

- The Ultrasonics' audio cues sound at appropriate distances. It did not alert the user to objects too close or too far away.
- The Ultrasonics' audio cues were not too loud. Some testers believed it was too quiet, but the majority approved of the volume.
- The Ultrasonics' audio cues did not click at too fast or too slow of a frequency.
- The Ultrasonic sensor improved users' knowledge of their surroundings and confidence in walking blind.
- The PIR sensor somewhat improved users' knowledge of their surroundings and confidence in walking blind.
- The PIR sensor had too great of a range/sounded too frequently.

Portability:

- No complaints about portability
- With a hoodie, users enjoy the ability to have the electronics in their hoodie to relieve weight of product

Fashion:

- Device is lightweight and portable
- User mentioned use with hoodie, allowing for easier access

Changes:

Functionality:

- Angle the Ultrasonic sensor to face forward more directly using a L-shaped lego piece.
- Restrict viewing angle of IR motion sensor using tape.

Portability: No portability changes required.

Fashion:

-Make the neck band larger to fit over clothing/hoods (Not being implemented in prototype because we have not been able to find a larger object that wraps around the neck without getting overly bulky.)

Feedback we did not accept:

-Advertise as general object avoidance, not for people specifically.

Explanation: The added value of our device is that it provides additional information to the user about what obstacles are ahead of them. Allowing the user to know if an obstacle is a human can help them not hit the user with the white cane, especially if the person ahead is distracted, idle, or quiet.

-Have a steady sound instead of clicks for the ultrasonic sensor

Explanation: Having a steady sound would be disruptive to the user's daily activity. The clicking is clear, but also does not interfere in hearing their surroundings.