

IR CAP

ANTI-OBSTACLE ALERT CAP



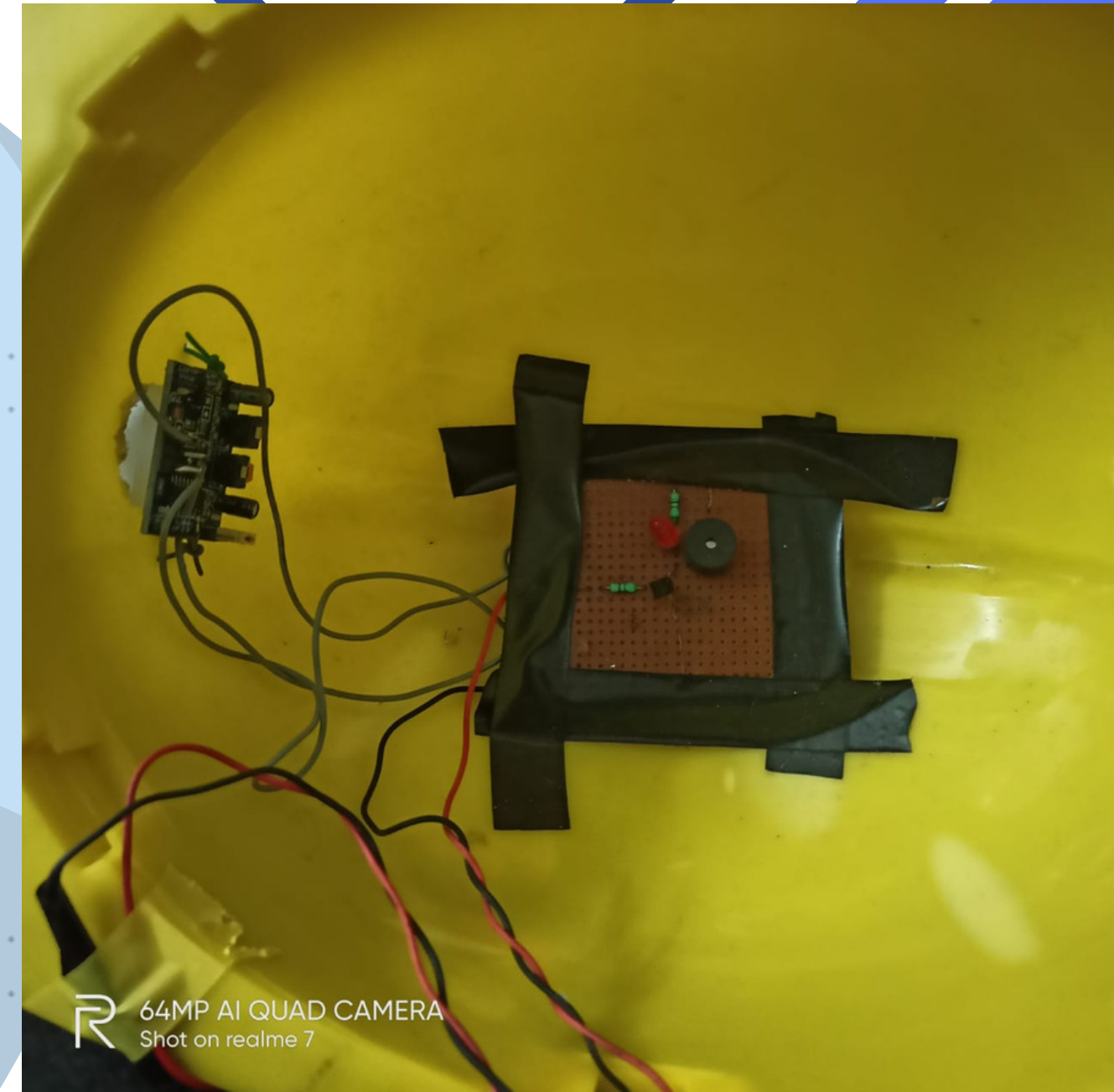
WHAT IS THE IDEA?

For the visually impaired, something as simple as walking on the street can be a real challenge. IR CAP is the revolutionary product to solve this problem. It's a lightweight and adjustable cap that uses IR sensors to detect obstacles in front of them- then vibrates accordingly to alert the person wearing it. This allows them to move around freely and safely, regardless of their vision. IR CAP also has a companion app for scheduling routes, tracking progress, and connecting with other users. With IR CAP, visually impaired people can experience freedom like never before.

IR Cap is the perfect companion on your outdoor journeys.

UNIQUENESS OF THE IDEA

IR Cap - the very first navigation cap with integrated IR sensors to make navigation for visually impaired safer than ever before. Our state-of-the-art technology makes navigation easier, faster and more efficient than ever. Its comfortable and affordable design, placements of the sensors, vibrators, amplifiers makes it unique and one of a kind.



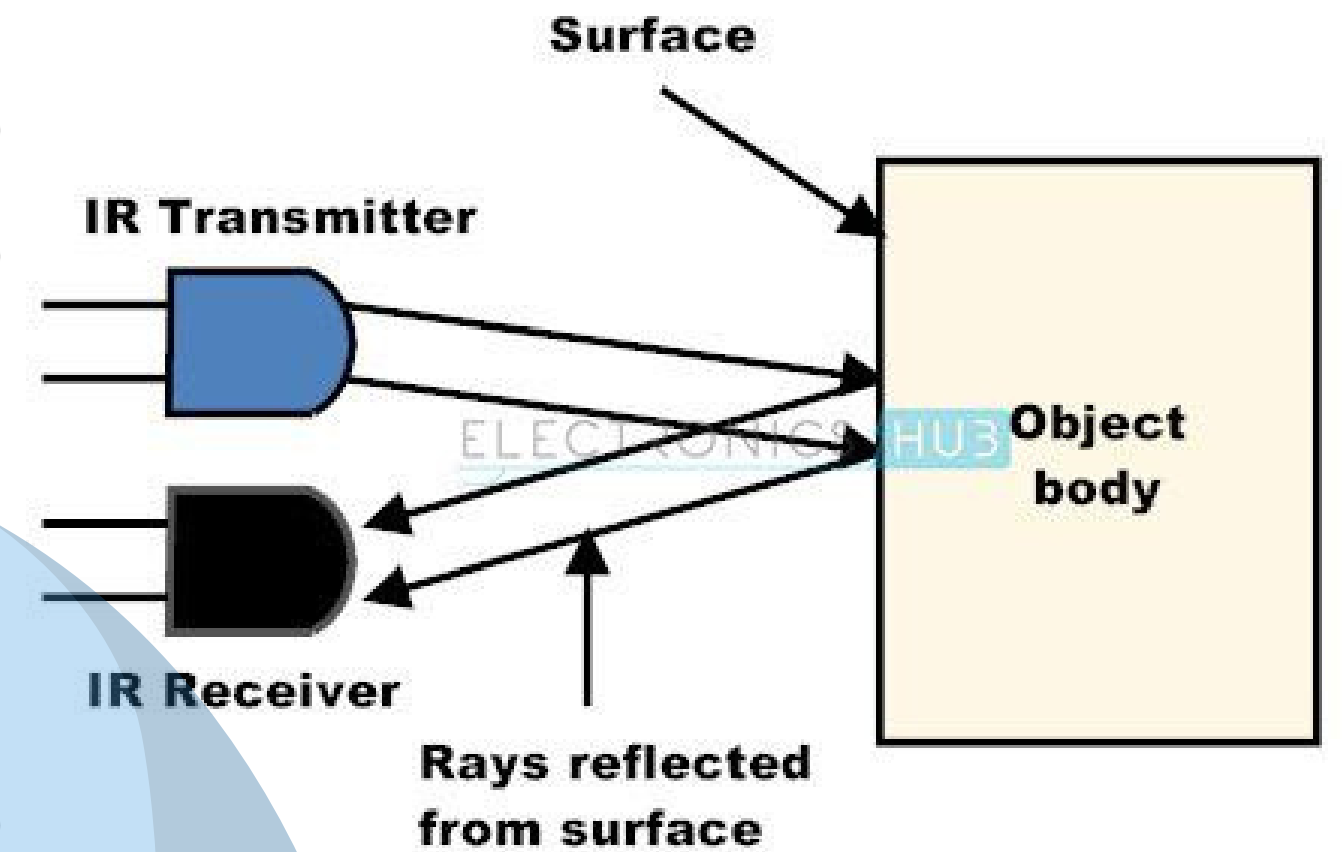
TECHNOLOGY USED

The IR cap consists of an IR sensor, vibrator, a receiver, amplifier.

Active IR sensors have two parts: a light emitting diode (LED) and a receiver.

When the IR transmitter emits radiation, it reaches the object and some of the radiation reflects back to the IR receiver. Based on the intensity of the reception by the IR receiver, the output of the sensor is defined.

The output is amplified through an amplifier and a signal is sent to the vibrator so that it can alert that an obstacle is in the front.



EXISTING SIMILAR PRODUCTS

Our solution, IR cap, helps them navigate through sensors without compromising their independence. Unlike traditional products which use loud alarms and bother other people, our product is a discreet and sensitive headgear that helps guide the individual through sensory detection.

Products available are-:

a stick which helps in navigation by alerting with a sound which can disturb the others walking near.

Glasses are also available in the market which helps in navigation for visually impaired but its not feasible wearing glasses everywhere you go.

***You cant layer glasses on your Sun glasses.
Sun glasses can also minus your style quotient.***