Visual aids using ultrasonic pulse echoes

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Technology description

The invention relates to a visual auxiliary device using ultrasonic pulse echoes. The ultrasonic direction is strong, and the ultrasonic pulse echo generated from the ultrasonic transducer reflects the signal generated by the obstacle in front of the pedestrian into a sound signal that can be recognized by human beings. In this way, obstacles in front of you can be sensed through hearing.
The characteristics of the technology are as follows:
1. The position of the obstacle can be determined by using more than two ultrasonic transducers with strong directivity.
two。 The converted sound signal is heard through headphones and does not make noise to affect others
3. The device is ultra-thin and can be mounted on glasses
4. The main wave number of ultrasonic pulse echo is 30 kHz, 60 kHz, 180 kHz alternately, which can collect information position accurately.
The use of this technology:
1. To help the blind walk like normal people;
two。 Develop games for normal people to understand and help the blind;
3. Can be used to develop student creativity.

Application area

Blind aids, outdoor activities, games, science education aids

Institution

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