



064-CIT

Smart Device for Blind Aid

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Total Blindness is defined as — complete lack of form and visual light perception, recorded clinically as No Light Perception (NLP) [Cole brander, 2002]. Total blindness can affect quality of life, reducing the comfort and viable opportunities that normal sighted or even visually impaired people have. As a result, totally blind people need greater reliance on affordable, effective, and convenient technology; through which they can lead a more comfortable and active life. Improving access to these technologies will ensure that totally blind people can access similar, if not same, opportunities as people with normal vision. However the majority of corresponding devices could not give ability to recognize 3-D object faces blind from different sides.

The proposed system include wearable T-shirt and helmet for 3D mapping of object that makes the blind can recognize the shape of the object and help him to move without help of any others. The advent and widespread use of this T-shirt has simplified communication and interacting with object that assists him to recognize the shape of the object such as rectangle, square, at bottom, at top, or aside also the distance between the blind and the object define the z axis in which he can sense vibration and hear a sneezing sound.