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RESEARCH ARTICLE

TALKING HANDHELD DEVICE FOR VISUALLY CHALLENGED PERSON

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Abstract— A cost effective talking handheld device was developed to identify the products in the supermarket and also announces the product information to visually challenged person. The device consists of i) Product section ii) Handheld section iii) Billing section. In the Product section all information's about the product will be encoded in encoder. The encoded information is transmitted through RF transmitter. In the handheld section RF receiver receives the information about the chosen product and Decoder decodes the information that is to be fed to the microcontroller unit. The product details will be conveyed immediately using loudspeaker. The selected products amount is added or subtracted from the total amount using add or remove button. Total amount of products purchased is transmitted via Zigbee transmitter. In the billing section the transmitted information is received by the Zigbee receiver.

Key Terms: - RF transmitter and receiver; Encoder; Decoder; Zigbee transmitter and receiver

Full Text: http://www.ijcsmc.com/docs/papers/May2013/V2I5201353.pdf