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Warehouse and Logistics: Smart Picking with Vuzix Smart Glasses

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Vuzix is an industry leader in augmented reality (AR) technology. We provide innovative products to an array of industries, a few being defense, security, enterprise, and consumers. Our AR technology provides a perfect balance of engagement in the digital and real worlds thanks to their innovative optics, AI apps and 5G capability.

MAIN TOPIC

A key industry our glasses play in is warehouse logistics. With AR technology, warehouses enjoy a combination of accuracy and human influence for the optimum working environment. Vuzix smart glasses improve warehousing for staff at all levels. Checklists, pick information and video recording allow for errors to be spotted immediately, enabling a higher level of efficiency. Users benefit from carrying less equipment and leaving both hands free.



Fig. 1. Barcode scanning in a warehouse



Fig. 2. Order picking in a warehouse

One of the biggest use cases in the manufacturing industry is barcode scanning. In short, users can scan barcodes simply by looking at what they want to scan, what's referred to

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as ‘vision picking’. With our unique heads-up display, this is possible. Benefits to using smart glasses for barcode scanning are decreased average pick time, fewer order mistakes, ability to video feedback to managers in real-time and replacing the combined function of a bulky scanner and clipboard with one pair of smart glasses, ultimately freeing up the users’ hands.

Aside from the mentioned use cases in warehousing and logistics, Vuzix’ Smart Glasses also serve a purpose in various other industries (some being enterprise, healthcare, and field service). A general enterprise use would be handsfree teleconferencing. A benefit to healthcare workers would be utilizing the glasses for QR code scanning as markers during surgery. Lastly, field service workers may utilize the glasses for remote support and training purposes. This are only a few other (of many) use cases that the glasses solve a larger issue.

We, at Vuzix, plan to demonstrate barcode scanning/smart picking at the 2021 Frameless Symposium. Barcode scanning is widely used for order picking and fulfillment. The smart-glasses- connected picker will receive all necessary pick and order information in a convenient heads-up format. Think of virtual shoppers in grocery stores. The glasses will allow the virtual shopper to scan the barcode on an item in store and alert you which respective bin to place it in. We look forward to demonstrating this technology, as well as discussing in greater detail the benefits to warehouse and logistics, with you at the symposium.

CONCLUSION

Vuzix Smart Glasses make warehouse workers processes much more efficient by enabling them to scan and pick hands-free.

Workers carry less equipment and pick faster with much fewer errors. The use of Vuzix Smart Glasses facilitates significant gains in everyday warehouse and logistic operations.

Keywords: *barcode scanning, vision picking, order picking, work instruction, inventory control, warehouse logistics, augmented reality, virtual reality, warehouse solutions*