PICK-BY-VISION
Product features and applications

PICK-BY-VISION COMMISSIONING

The term "Pick-by-Vision" refers to a new and innovative trend in the logistics sector. The picker is provided with all the necessary information for the current order (article, quantity, compartment etc.). This is displayed to them, via the glasses, directly in their field of view. This is why we refer to order picking, supported by "Augmented Reality" (the enhanced reality).

SUMMARY OF ADVANTAGES

- Unlike "conventional" Pick-by-Light applications, complex hardware installations in the warehouse are no longer necessary. These are also generally cost-intensive.

- Commissioning speed is increased due to the "hands free" function. The picker's concentration is not reduced by additional voice commands (e. g. Pick-by-Voice).

- Simple integration into existing WIFI networks.

- Optimized routing within the warehouse is possible through direct display of the process routes (workflow configuration).

- Less training for employees is required due to intuitive use of HoloLens.

- High process reliability.

- High employee acceptance, due to the effortless use of the system when confirming an action.

ADE has been working on "Pick-by-Light" solutions with industrial companies for many years. We developed our new "Pick-by-Vision" application in order to create an alternative to "Pick-by-Light" and "Pick-by-Voice". The Microsoft "HoloLens" data glasses, is a vital component of our solution. As a result, essential occupational safety requirements are met.

A vital component of our solution is the "HoloLens", created by the data glasses pioneer Microsoft.

The HoloLens is a well-engineered AR optical system that can be controlled through gestures, head movement, speech, sensors and external peripherals.

It is essential that the picker's working environment remains fully visible. As a result, important occupational safety requirements are met.

Pick-by-vision
Made by ADE

TECHNICAL SPECIFICATIONS

WIR LEBEN INDUSTRIE 4.0

ADE Vertriebs GmbH has made it their goal to automate the digitization of manufacturing and logistics.

Technical specifications

- Weight: 579g
- Microsoft Windows HoloLens-OS powered by an Intel processor with TPM 2.0 support as well as a self-developed holographic processor
- 64GB Flash / 2GB Ram
- Internal battery, rechargeable via micro USB
- See-through holographic lenses (waveguides)
- 2HD 16:9
- 4 microphones
- Access to 4 environment controlled-cameras and a depth camera
- Mixed Reality Capture (recording) function
- Ambient light sensor
- Voice support
- Gesture recognition
- Gaze tracking
- Spatial sound
- WiFi 802.11ac
- Bluetooth 4.1 LE
- Passively cooled (no fans)

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