



APPLICATION REPORT

The Solution is in Your Hands

Optical Identification Using Handhelds in Electronics Production



OHV200, OHV100, OHV200 palm-design handheld

A wide range of codes in a variety of sizes are available for different kinds of electronics production applications. Very small Data Matrix codes are the right size for printed circuit boards (PCBs), while larger 1-D codes are often used on the PCB packaging.

The OHV100 and OHV200 handhelds from Pepperl+Fuchs can read all standard 1-D and 2-D codes of varying sizes using one setting. Handhelds read codes reliably and accurately, even if the codes are under packaging film or on reflective surfaces.

A SOLUTION TO COMPLEX ALLOCATION TASKS IN ELECTRONICS PRODUCTION

Handhelds are often used to read codes manually in electronics production when carrying out complex allocation tasks. The use of handhelds is an efficient solution when it comes to allocating PCBs to end devices.

Two or more PCBs are typically delivered parallel to each other in one package. The features of the handhelds mean that the time-consuming process of taking out each

individual PCB can be avoided. The OHV100 and OHV200 handhelds have a blue LED aimer. You can point this aimer directly at the code you want to read. You can read codes quickly and reliably even when viewing them from the side.

The wireless OHV200 handheld is the perfect solution for keeping track of PCB packages located in different areas of a production plant. The data read can be transmitted via Bluetooth to the work station at a radius of 30 meters. If this radius is insufficient, you can save up to 30,000 different read results directly to the handheld.

Handhelds are also used to check that PCBs are assembled correctly at rework and control stations. A handheld reads the code on the PCB.

The PCB is then checked using the microscope. To avoid having to hold the handheld unnecessarily, you can place the OHV100 in the OHV-BRACKET end stop and automatically activate motion detection. When the PCB is within the field of vision of the OHV100, the code is automatically read, saving time and allowing efficient processing.

The OHV200 accurately reads
Data Matrix codes on PCBs



BENEFITS OF THE OHV100 AND OHV200 HANDHELDS AT A GLANCE

- Reading of all standard 1-D and 2-D codes
- Dual optics and 1.2 megapixel high resolution for reading large and small codes using one handheld
- JavaScript: applications can be reproduced without using an external PC
- Glare reduction technology for reliable reading on highly reflective surfaces
- Audible, tactile, and visual user feedback
- Ability to save read results directly to the handheld (OHV200)
- IP65 degree of protection (OHV200): highest IP class for handhelds; IP54 for OHV100
- Interfaces: USB (via charger for OHV200), RS232 (OHV100), and Bluetooth (OHV200)