



Adjustment and testing system for intelligent barcode scanners

Product description

The system is used for manual adjustment, final assembly and automatic final inspection of intelligent barcode scanners. Various reading fields are driven through the integrated tunnel for functional testing of the scanners.

Field of application

Final assembly, quality control and End-of-Line test in the production/manufacturing area



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Technical data

Test bench/device

- Final assembly and final testing station with optical test track 2x5x2.5 m in target tunnel
- Target tunnel with 8-fold optical target with motorized precision positioning
- Changeover devices for different types of specimens
- Laser power measurement, laser-safe design
- Measuring and supply technology in the switch cabinet
- Control and evaluation PC

Software

- TST-WIN under Windows
 - Process control
 - Variant management
 - Extensive possibilities for controlling the process and the measurements
 - On-line visualization Measurement process and image acquisition
 - All settings and processes menu-driven and freely programmable
 - Extensive evaluation and statistical possibilities, data export
- Database server for process data evaluation

Scope of testing

- Integrated algorithms for laser power and focus adjustment (3D transmission/reception optimization)
- Test of different interfaces (USB, Profinet, Profibus, RS485, RS232, ModBus, SSI)
- Test of I/O lines
- Version control
- Software boot
- Programming of customer-specific parameters
- Test Real-Time-Clock
- Display test

Input-/visualisation units

- Keyboard
- Monitor
- Control box

Test time

- Individual, depending on test scope

Exemplary device type

- 374 1888