Testing and adjustment system for safety laser scanners

Product description

The testing and adjustment system is for testing and adjusting a laser-based Distance measuring system based on time-of-flight (TOF) measurements. Implementation of a fully automatic closed-loop adjustment of transmitter and receiver in 5 axes, as well as subsequent end-of-line testing of the complete assembly.

Field of application

Final assembly, quality control and end-of-line testing in production/manufacturing

www.itgroup-europe.com

ITronic GmbH
Rathausgasse 20
D-71729 Erdmannhausen
T +49 (0)71 44-8711-00
sales@itgroup-europe.com

ITronic Kft.
Vasút u. 16/A
H-8440 Herend
T +36-88-591-020
info@hu.itronic.biz

Testing and adjustment system RotoScan

Technical data

Test bench/device

- Final assembly and final test station with optical test track 1x1x10 m in the target tunnel
- Target tunnel with various swiveling optical targets with motorized precision positioning
- Laser power measurement, laser-safe design
- Measuring and supply technology in the control cabinet
- Control and evaluation PC

Software

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

Scope of testing

- Integrated algorithms for laser power, transmitter, receiver and focus adjustment (5D transmission/reception optimization using hexapod)
- Closed-loop adjustment - via optical evaluation laser beam on target
- Sensor parameterization via Ethernet interface
- Test of the DUT I/O lines
- Version control
- Software boot
- Programming custom parameters
- Check real-time clock

Input-/visualisation units

- Keyboard
- Monitor
- Button Box

Dimensions/Transport

- 10000x2000x1200 mm (WxHxD)
  Weight approx. 2.200 kg

Test time

- Individual, depending on test scope

Exemplarly device type

- 374 4053

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