

SMD Components Tester

Smart Tweezers™

Smart Tweezers™ is a handheld LCR meter of a new concept. It provides a perfect solution for testing and identification of Surface Mount Devices as well as troubleshooting of complex electronic systems.

Its unique mechanical and electronic design combines a pair of precise gold-plated tweezers and a digital LCR meter in compact, lightweight, battery powered instrument. The probe is able to measure resistance, capacitance, inductance with high accuracy and automatic component recognition.



Testing Surface Mount Devices

Surface mount devices are usually tiny and without wire leads, making it more difficult to test and identify SMD than conventional components.

Smart Tweezers™ gives users an easy way to sort and evaluate loose components and to perform on-board measurements and debugging.

Precise gold-plated tweezers are able to pick and reliably contact even the smallest SMD components and take measurements from already mounted devices. The probe can also be used to test conventional components with wire leads too short to insert into the test terminals.

Fully Automatic Measurements

Smart Tweezers™ automatically determines type of the component (resistance/capacitance/inductance) and selects proper range for high accuracy measurements.

Unit's display clearly indicates the type of the component, measurement result and test conditions.

Lightweight and Ergonomic

The integrated measurement head allows the operator to use one hand and focus attention on the tested component and on the job at hand. Sorting, testing and troubleshooting become more efficient and cost effective.

Wide Spectrum of Functions

Additionally, Smart Tweezers™ offer direct display of component's $|Z|$ impedance and of capacitor ESR.

Every test function has a manual mode when there is a need to measure a specific circuit parameter—L, C, R.

The device offers binning capabilities and measurement offset calculation.

Menu operations and mode selection are performed using a Navigation Controller. The controller also allows directly changing of test modes.

The unit has a continuity detector with the beeper sound for resistance reading below threshold.

- Built-in high-precision LCR probe
- Convenient one-hand operation
- Ideal for Surface Mount Devices
- Low-capacitance 4-wire shielded handles
- Automatic component recognition
- Automatic test range selection
- Precise tips for small-size devices
- Multi-component information display
- Manual overrides of test modes
- Measurement offset calculation capability
- Portable and ergonomic design
- Built-in rechargeable LiPo battery



Smart Tweezers™ greatly simplifies testing and troubleshooting process.



Resistance, capacitance and inductance can be measured with automatic selection of the test parameters and range.

Art. No.	Description
ST-5	Smart Tweezers Set (with standard tips)
ST5-IT-T	Standard replaceable Tips
ST5-IT-TSHP	High precision sharp replaceable Tips

Calibration service available