

Smart Tweezers with rechargeable Li-ion Battery, USB Charger, SMD Probes & Tweezer

## Additional Features in latest SMD-5S

- Smart Tweezers™ LCR meter allows you to test various component types, including secondary components of Dissipation Factor (D), Quality Factor (Q). This handheld also includes other functions that result in a more detailed component analysis.
- The built-in Equivalent Series Resistance (ESR) mode helps you better understand the inherent resistance - behavior typically found in capacitors across selected frequencies.
- In its DIODE mode Smart Tweezers™ tests diode polarity and indicates if it is short.
- Smart Tweezers™ has a continuity detector. Variable beeper sounds for resistance reading below set thresholds. Additionally, this function helps to locate shorted conductors (e.g. on a PCB).
- In manual modes Smart Tweezers™ measures a specific circuit parameter — L, C, R, Z or ESR. Manual modes also improves component type identification for in-circuit tests.
- Variable test signal output from 0.5 to 1.0 Vrms allows to improve test precision in different situation e.g. for in-circuit measurement and loose leaded ceramic capacitors.
- Visible and audible tolerance mode allows to perform component sorting.
- Math null function allows to store a pre-measured offset and improve measurement precision.

Advance Devices, Inc. is the ORIGINAL manufacturer of Smart Tweezers. Inde Enterprises is their stocking distributor as well after-sales-service partner in India.



4 pcs SMD Probe Set



ESD Safe Soft SMD Tweezer

### Scope of Supply:

- # Smart Tweezer ST-5S
- # 4 pcs SMD Probe Set
- # ESD Safe SMD Tweezer

## Technical Specifications

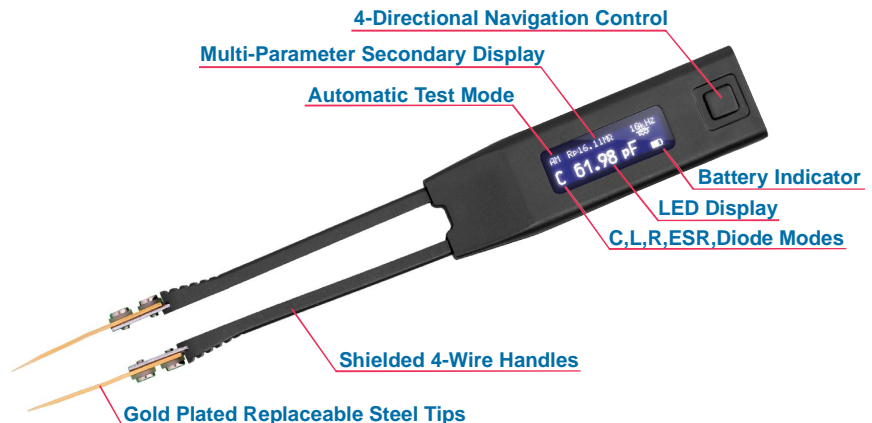
AC test mode Test frequency: 1 kHz, 10 kHz, 120 Hz, 100 Hz  
Test signal level: 0.5/1.0 +/- 5% Vrms Sine wave

## Measurement Ranges

Resistance R: 0.05 Ω to 9.9 MΩ  
Capacitance C: 0.5 pF to 4999 μF  
Inductance L: 0.5 uH to 999 mH  
Quality factor Q: 0.001 to 1000  
Dissipation factor D: 0.001 to 1000

## Other Specifications

Size: 15.0 x 1.8 x 1.5 cm approx.  
Weight: 29 grams approx.  
Operating temperature: 0°C to 50°C  
Battery Type: 3.7V LiPO rechargeable 180mAH



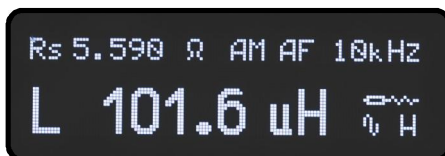
Warranty is 12 months from the date of our invoice, excludes Li-ion Battery and all physically damaged parts.

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## An Efficient and Convenient Way to Test SMD Components

- Built-in high-precision LCR probe
- Convenient one-hand operation
- Ideal for Surface Mount Devices
- Automated component identification
- Automated test range selection
- Manual C, R, L, Z and ESR Modes
- Adjustable test signal levels
- Swiss-made precise test leads
- Diode Polarity/Short Testing
- Secondary D, Q and ESR parameters
- Portable and ergonomic design
- Built-in Li-Ion 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.

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 identification

### 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 leads 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.

### Automated Measurements

Do measurements faster with Smart Tweezers™ using the automatic component identification function eliminating unnecessary trial and error time.

Smart Tweezers™ automatically specifies L, C, or R with parallel and series mode and selects a proper measurement range and test frequency for high accuracy measurements. The unit displays component type and more detailed component analysis such as Z and ESR.

### Lightweight and Ergonomic

The integrated measurement head allow 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.

4-wire shielded Smart Tweezers™ handles assure low capacitance and resistance offset during measurements.

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## Certificate of Authorization

This is to certify that

Inde Enterprises  
HQ: 745, Sector - 8B  
Chandigarh 160 009  
Email: info@inde.co.in  
Fax: 0172-4640415  
Phone: 0172-6534475

- has been appointed since 2005 as an authorized distributor of Smart Tweezers™ line of products and a service partner.
- has been granted the rights to purchase, promote and resell our products such as Smart Tweezers™ line and related accessories in the territory of India.
- has been authorized by us to provide maintenance and service facilities for Smart Tweezers™ under warranty and at post warranty period, including Calibration Services to our customers in India.

This Certificate of Authorization has been executed this 22<sup>th</sup> day of September 2014.

This certificate is valid for 3 years from the date of issue.

A handwritten signature in blue ink, appearing to read "Ilia Malamoud", with a stylized flourish underneath.

Ilia Malamoud, VP Sales  
Advance Devices, Inc.