

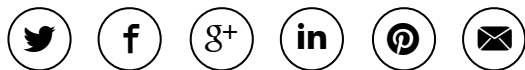


Wednesday, September 21, 2016



Smart Tweezers LCR-meters ST-5S and LCR-Reader Are on Sale from Siborg Systems Inc.

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Both handheld digital Smart Tweezers and LCR-Reader LCR-meters are on sale for Black Friday, November 28, 2014

WATERLOO, ONTARIO (PRWEB) NOVEMBER 26, 2014

Smart Tweezers have become a popular device for testing and troubleshooting Surface Mount Technology since their release in the early 2000's. The device has become well known for its unique design and instantaneous measurements with high accuracy.

Smart Tweezers are constantly evolving and growing to meet a wider range of applications and with higher accuracy, the ST-5S, the most popular model for professionals and high-tech companies worldwide, has reached a 0.2% basic accuracy. This model is currently used by many major electronics companies across the globe. The **LCR-Reader** is a lower cost model to meet the needs of non-professionals and hobbyists alike that are looking for a device like Smart Tweezers without the high price.

Siborg Systems Inc. is offering a Black Friday sale on both models of devices currently available. The sale starts at 12:00 am Eastern Time and ends at 11:59 pm Eastern Time on November 28th, 2014. To order, the online store is available through the links on this page or by phone or fax.

Surface Mount Technology is the leading method for building electronic equipment using components that are mounted directly onto the Printed Circuit Board (PCB) as opposed to the previous method where wire leads were threaded through holes on the PCB. The small components used are called Surface Mount Devices or SMDs and are



LCR-Reader, the Ultimate LCR-meter for SMT

LCR-Reader makes working with Surface Mount Devices more time efficient. With no set-up required, Smart Tweezers

generally very small with no markings or distinguishing characteristics, making them easy to lose track of the component itself or the value.

does most of the work for you.

Smart Tweezers are a unique alternative to testing these components, either loose or mounted. Without needing to use long wire leads or stopping to set up between measurements, like conventional bench-type testers would make one do, Smart Tweezers only relies on just a touch.

The combination of a set of tweezers with a powerful LCR-meter allows Smart Tweezers to easily grasp any component, no matter the size or if it's mounted or loose. When the tweezers grasp a component, Smart Tweezers and LCR-Reader will automatically determine the type of component and the best measurement range for that component before measuring for Inductance, Resistance, Capacitance or Equivalent Series Resistance (ESR) values. All measurement values are instantly displayed on the device; including the main impedance value, any secondary values, the test range and component type.

"The main advantage of **Smart Tweezers** is virtually instantaneous and highly accurate evaluation of SMT components as small as 0.3 mm," says the R&D Director at Siborg, Michael Obrecht, "This accuracy level of about 0.2% is only available from expensive bench-type LCR-meters that require significant efforts in setting-up the measurements."

"Smart Tweezers offer an instantaneous alternative to using expensive bench-type testers while evaluating SMDs, including those as small as 0.3mm," says the Director of R&D at Siborg, Michael Obrecht, "They offer high accuracy, with the ST-5S offering a 0.2% basic accuracy, and need no set-up between measurements. If you do any work on a PCB, Smart Tweezers are an indispensable tool after the first time you use them. The simplicity of the design allows the user to focus on the task at hand, thus saving time."

The LCR-Reader is the consumer's choice model; designed for non-professionals and hobbyists that want a Smart Tweezers device but without the high price. This model offers the same easy-to-use application, high accuracy and instant results but at a price below \$200. This price was achievable by omitting some features found on the ST-5S model, including component sorting, semi-automatic offset subtraction, variable tolerances, and continuity and diode testing.

Features on LCR-Reader include:

- Automatic LCR and ESR measurements
- Basic accuracy of 1%
- Automatic best range selection
- 1 oz. weight

Both devices allow users to choose a manual mode: L, C, R, ESR or Automatic; both models can cycle through these modes with just a push of the button. The ST-5S offers more options, including variable test signals, etc, that can be changed faster with the new joystick-like navigation button by pressing it directionally. Both devices are powered by a Li-Ion battery and are chargeable via micro-USB.

Visit the [Smart Tweezers Blog](#) for all the latest news, and the [Smart Tweezers History](#) to see the evolution and offering spare parts for older models of the world-renowned LCR-meter.

About Siborg Systems Inc.

Established in 1994, Siborg Systems Inc. is a source of engineering software and hardware tools for semiconductor and electronics industry. Located in the city of Waterloo, Ontario, it enjoys being a part of the local world renowned high-tech community.

For more information

Siborg Systems Inc.

24 Combermere Crescent.

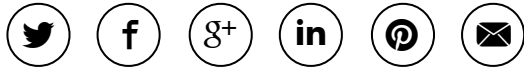
Waterloo, Ontario
Canada
N2L 5B1

Tel: 519-888-9906

Fax: 519-725-9522

Web: <http://www.siborg.com>

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MICHAEL OBRECHT

Siborg Systems Inc

+1 (519) 888-9906

Email >



@smarttweezersus

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Smart Tweezers LCR-meter ST5S Manual



Comparison of Smart Tweezers ST5, LCR-Reader LCR-1, Tesla BM591 and MIC-4090D
Comparison of measured values for through-hole components



LCR-Reader Akin to Smart Tweezers LCR-meter
Consumer's Choice LCR-meter

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