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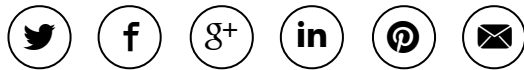
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Thursday, October 13, 2016



# Smart Tweezers and LCR-Reader on Sale for Cyber Monday from Siborg Systems Inc.

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### LCR-Reader Assembly Video



Popular LCR-meters Smart Tweezers and LCR-Reader have a discount price to celebrate Cyber Monday on December 2nd, 2013.

**TORONTO, ONTARIO (PRWEB) NOVEMBER 29, 2013**

From its introduction in the early 2000s, [Smart Tweezers handheld LCR-meters](#) have gained recognition worldwide for being a convenient, handheld LCR-meter with high accuracy and speed. This [LCR-meter](#)

has gone through many evolutions, recently achieving a 0.2% basic accuracy and offering multiple applications since the first model.

Siborg Systems Inc., will be putting [Smart Tweezers LCR-meter](#) and [LCR-Reader](#), on sale on Monday December 2nd, 2013, for Cyber Monday. The sale will begin at 12:00 am Eastern Time, and end at 11:59 pm Eastern Time. Click any of the links to order, or place your order by phone or fax found at the bottom.

With Surface Mount Technology (SMT) becoming the leading manufacturing method of electronics, the need for more sophisticated test equipment has risen. Smart Tweezers are an easy to use device in lieu of using traditional bench type testers. The small components used in SMT, commonly referred to as Surface Mount Devices or SMD, are generally very small leaving little to no room for labelling. Each component is hard to distinguish from another, making losing track of the component or its values a problem.

As seen in the Youtube [Smart Tweezers introduction video](#), by just touching a component with the integrated tweezers acting as the probes, Smart Tweezers automatically determines the type of component and measures for Inductance, Capacitance, or Resistance as well as the Equivalent Series Resistance value. The device also automatically selects the best test range and signal frequency depending on the component for the highest possible accuracy measurements.

"The main advantage of [Smart Tweezers](#) is virtually instantaneous and highly accurate evaluation of SMT components as small as 0.3 mm" says the Director of Research and Development at Siborg, Michael Obrecht, "This accuracy level of about 0.2% is only available on expensive bench-type LCR-meters that require significant efforts in setting-up measurements."

Some of the features on [Smart Tweezers](#) include:

- Fully automatic LCR and Equivalent Series Resistance (ESR) measurements
- Basic accuracy of 0.2%
- Diode and continuity test
- Adjustable test signal
- Component sorting with 1%, 5%, 10% and 20% tolerances
- Semi-automatic offset subtraction
- Ideal for small components, as small as 0201 size or 0.3mm
- Displays active and relative impedance components
- Just 2 oz. weight and ergonomic design
- Long battery life with Li-Ion battery and micro-USB charging connection

"In all electronic production lines Smart Tweezers comes in handy perfectly complementing powerful but sometimes hard to use bench-type electronic test equipment. [Smart Tweezers LCR-meter](#) is an extremely useful tool allowing to verify results of optical inspection," says Jason Yeh, the Sales Manager at GoldTek in China.

Last year Siborg introduced a budget model of Smart Tweezers, the ST5L. In September, the newest model, the LCR-Reader was released. The new device is about half the weight and size of previous models, but still offers users a high basic accuracy of 1%, exceeding previous ST-1, ST-2, and ST-3 models. LCR-Reader still offers most of the basic functions of Smart Tweezers, but has a lower cost to allow for a wider range of consumers. The 1 oz. device is easily navigated with one button to power on and rotate through multiple measurement modes including: Automatic, Capacitance, Resistance, Inductance and ESR modes. Like Smart Tweezers, the LCR-Reader measures the main impedance of L, C or R and parasitic components such as R for L and C, and is powered by a Li-Ion battery.

The above video demonstrates the assembly process; the LCR-Reader is shown inside and out. The small, lightweight design was achieved by not including some features found on other Smart Tweezers

models thus saving in manufacturing cost. These features include: continuity, diode and open circuit testing, semi-automatic offset subtraction, and component sorting. Without these features, the device is more affordable to a wider range of consumers. The sharp, gold plated tweezer tips guarantee a full contact hold on all components, even on smaller, tighter fit PCBs such as mobile phones.

Visit the Smart Tweezers Blog for all the latest news about Smart Tweezers LCR-meter and LCR-Reader.

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, Canada, it enjoys being a part of the local world-renowned high-tech community.

For more information

Siborg Systems Inc.

24 Combermere Cres.

Waterloo, Ontario

Canada

N2L 5B1

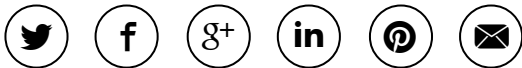
Tel: 519-888-9906

Fax: 519-725-9522

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

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LCR-Reader Akin to Smart Tweezers LCR-meter

This reasonably priced pen-size LCR-meter exceeds specs of many professional bench-type LCR-meters

## Contact Author

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**MICHAEL OBRECHT**

Siborg Systems Inc  
+1 (519) 888-9906  
Email >



@smarttweezersus  
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Smart Tweezers ST5 Manual  
Smart Tweezers LCR-meter ST5 Manual



LCR-Reader vs Smart Tweezers ST3, ST5 and ST5L  
Feature Comparison of LCR-Reader and Previous Smart Tweezers Models

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