

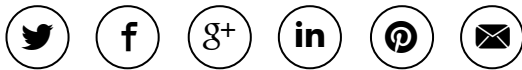


Wednesday, September 21, 2016



Siborg Systems Inc. Launches Redesigned Web Store and Offers Store Opening Sale

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The new design makes it easier than ever to order Smart Tweezers and LCR-Reader digital LCR-meters and offers year end discounts.

WATERLOO, ONTARIO (PRWEB) DECEMBER 18, 2015

The [Smart Tweezers and LCR-Reader](#) line of handheld digital LCR-meters have become an indispensable tool for testing and troubleshooting surface mount technology since the Smart Tweezers release in the early 2000's. Siborg has recently redesigned their online store to make it even easier to order devices, task kits in various configurations and accessories.

The new design is a much better improvement than the previous design which was minimal and require customers to know what they wanted before ordering. The new store has more of a standard online-store feel where customers are able to browse the products with pictures and details and add them to a cart before checking out. Siborg has also added new products to the store, [Smart Tweezers and LCR-Reader "Task Kits"](#). These kits include a device and extra accessories, including spare tweezers tips, batteries, chargers and charging cables. Instead of buying one item at a time, the Kits offer a discount depending on the amount of extra accessories purchased. The store layout lets customers find the products they want right away with sections for "Accessories", "Task Kits" and "Devices".

The concept behind [Smart Tweezers](#) was to design a tool that made testing and troubleshooting surface mount technology simple and time efficient. Alternative methods to testing the small components used in all technology uses long wire leads that require both hands and setting up a multimeter for each measurement. This can be time consuming and frustrating, and makes it difficult to identify components that are a unlabelled. Smart



LCR-Reader

LCR-Reader: Consumer's Choice LCR-meter

Best Tool Ever for PCB Debugging and Component Characterization

Tweezers combines a set of sharp, gold-plated tweezers with a lightweight LCR-meter that only requires one hand to use. Both [Smart Tweezers and LCR-Reader](#) are able to determine the type of component under test and chooses the best test range for that component. The device then measures for Capacitance, Resistance or Inductance respective to the type of component, and displays the results instantly on the built in display; besides the main measurement value, the device also displays the type of component, test range used and any secondary values such as the ESR value.

The LCR-Reader is the lower-cost model in the [Smart Tweezers](#) family; this model was designed for people that were looking for a Smart Tweezers-like device without the high price while not sacrificing basic accuracy. The LCR-Reader offers users a 0.5/1% basic accuracy, basic L, C, and R measurements, secondary value measurements and the same overall function that is offered on the professional based Smart Tweezers ST-5S. A lower price point for the LCR-Reader was achievable by removing more detailed features that are found on the ST-5S, including: component sorting with variable tolerances, diode/continuity testing and parasitic offset subtraction. Even without these features, LCR-Reader still performs better than comparably priced LCR-meters.

Recently, Siborg had sent 4 randomly selected LCR-Readers to one of Canada's top calibration houses, Navair Technologies in Toronto. Navair tested the LCR-Readers for accuracy; the results that came back showed the device is closer to a 0.5% basic accuracy than the previous reported 1%. The devices were also sent to determine if the inclusion of calibration certificates was possible in the future.

Features on the LCR-Reader:

- 0.5/1% Basic accuracy
- Automatic and manual LCR and ESR measurements
- 1oz. weight
- Slim, portable design
- Gold-plated tweezer tips
- Automatic best range selection with variable frequencies
- Easy to use one-button navigation

The [Smart Tweezers ST-5S](#) is the professional based model that is currently used by many major high-tech companies worldwide on assembly lines, repair benches, etc. This model offers the most features and functions with an extensive menu for setting specific measurement values, including holds, parasitic offset removal, and variable tolerances. The ST-5S also comes with an NIST traceable calibration certificate that is required for companies that must have their measurement equipment calibrated in order to remain ISO compliant. The ST-5S has a multi-directional joystick navigation that allows users to change basic measurement parameters without entering the menus.

Features found on the Smart Tweezers ST-5S:

- 0.2% Basic accuracy
- Automatic and manual LCR measurements
- Measures secondary values ie: ESR values
- Component sorting with variable tolerances
- 4-way joystick navigation
- NIST Traceable calibration certificate
- Semi-automatic offset subtraction
- Continuity/diode testing

Both [Smart Tweezers and LCR-Reader](#) are powered by a Li-Ion battery with micro-USB charging (included with ST-5S only).

Siborg has recently added a few new products and options to the redesigned store. The newest product available is the [Smart LED Test Tweezers](#) which simplify testing LEDs, circuitry, shorts, switches, fuses,

etc. and can also be used at the probes for a multimeter by connecting the device using an included cable. The LED Test Tweezers tests LEDs with a 12VDC output and offers adjustable current ratings of 20 mA, 10 mA, and 5mA.

Check out the new redesign of [Siborg Systems' online store](#) and see the new products and options yourself.

About Siborg Systems Inc.

Established in 1994, Siborg is a source of engineering hardware and software for the semiconductor and electronics industry. Based in Waterloo, Ontario, Canada, Siborg enjoys being a part of the local world-renowned high-tech industry.

For More Information:

Siborg Systems Inc.

24 Combermere Crescent

Waterloo, Ontario

Canada

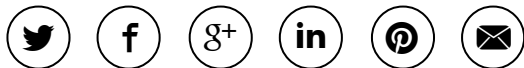
N2L 5B1

Phone: 519-888-9906

Fax: 519-725-9522

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

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Contact Author

MICHAEL OBRECHT

Siborg Systems Inc.

+1 (519) 888-9906

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LCR-Reader Calibration Certificate 140520
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Verification Results for Four LCR-Readers
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Smart Tweezers ST-5S



Smart Tweezers LCR-meter ST5S Manual

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