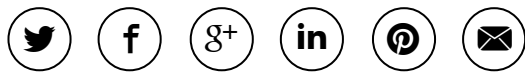


Wednesday, September 21, 2016



# Siborg Systems Inc. Now Offering Bluetooth Capable Smart Tweezers LCR-Meters

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A new model of Smart Tweezers allows users to record their measurements remotely using Bluetooth

**WATERLOO, ONTARIO (PRWEB) MAY 03, 2016**

Waterloo, Ontario based Siborg Systems Inc. has begun offering a model of Smart Tweezers ST-5S LCR-meter that has Bluetooth integration. This new device will allow users to record measurements and results in real time, making the device more efficient for testing and troubleshooting Surface Mount Technology.

The new model, the ST5S-BT, is based on the professional-quality [Smart Tweezers ST-5S](#) model. The ST-5S features the highest basic accuracy in the [Smart Tweezers](#) LCR-meters' family, at 0.2% basic accuracy. This model also offers the most features and functionality with extensive menus and options for more specific measurement parameters.

The Bluetooth feature allows users to connect to the NI LabView® environment, with the eventual ability to connect to Windows, iOS and Android compatible apps in the future. This connectivity will allow users to view their measurement results in actual time, allowing for quick reference of previously measured components. The Bluetooth connectivity is crucial for incoming control where all measurement results have to be documented.

The Bluetooth connection is provided by a USB receiver stick that establishes a virtual serial port. Measurement results are sent to the serial port as a string of comma separated values like this:

```
C1.398nF,R3.461kR,10kHz,0.5,S, , , , ;
```

The string represents the [Smart Tweezers](#) screen at the moment when the measurement was taken: the main impedance value type (C) and its value, the secondary impedance (R) and its value, the test frequency (10 KHz), test signal level (0.5 Volts), the measurement mode (S for serial) and 4 reserved values. The information is sent to the serial port and could be received by any communication software, for example such as free Tera Term software.

The picture on the right shows the Tera Term terminal receiving data stream from Smart Tweezers LCR-meter. The data can be saved into a file or documented as required. If the LabView software is installed on the computer it would allow to process the data for future use and store it in a database.

**Smart Tweezers** were introduced in the early 2000's as an alternative to testing and troubleshooting Surface Mount Technology and through-hole components with bench-type testers. A revolutionary design set them apart from the beginning; a set of gold-plated tweezers as probes and a lightweight LCR-meter with high basic accuracy in a one-hand-operable device. Unlike other testers, **Smart Tweezers** requires no set-up between measurements; the device will automatically determine the type of component and best ranges for that component when a component is between the probes. All measurement values are displayed instantly on the built-in OLED screen. The ability to automatically identify unlabeled components saves time in all facets of work, from production lines and manufacturing to maintenance and repair.

The ST-5S has become the chosen device among professionals due to its features and functions not found on other **Smart Tweezers** models. These include the menus that allow to set holds, parasitic offset subtractions, and other parameters for specific measurements. Other features include:

- Manual and automatic L, C, R and ESR measurements with a basic accuracy of 0.2%
- Automatic test range
- Quality factor (Q), Dissipation factor (D) and Impedance (Z) measurements
- Gold-plated tweezers tips that are able to gain full contact on all components, no matter how small, in-circuit or loose
- Bright OLED display for sharp contrast in even dimly lit places
- 4-way joystick-navigation that allows quick selection of basic test parameters, such as measurement mode and tolerance value
- Diode and continuity testing
- NIST Traceable Calibration Certificate comes with the device

The ST5S-BT will be available in the **LCR-Reader Store** in mid-May 2016, and possibly from Siborg's amazon sales channels later on. Be sure to visit the LCR-Reader store for LCR-Reader and Smart Tweezers task kits, as well as the newly introduced NIST traceable calibration certificates for LCR-Reader and Smart LED Test Tweezers.

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 part of the local world-renowned high-tech community.

For more information:

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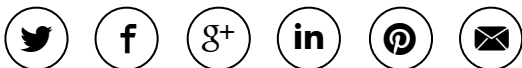
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Smart Tweezers ST-5S

Siborg will begin offering a new model of Smart Tweezers in mid-May, the ST5S-BT, a Bluetooth enabled model

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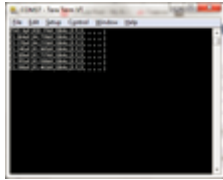
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Bluetooth Data Stream from Smart Tweezers  
Tera Term Terminal Receiving Data



Smart Tweezers LCR-meter ST5S Manual



Smart Tweezers ST-5S Specs  
Features and Accuracy Specifications of Smart Tweezers ST-5S



LCR-Reader Manual  
Manual for LCR-Reader LCR-meter



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



Smart LED Test Tweezers  
Allows test LEDs with three different test current levels

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