

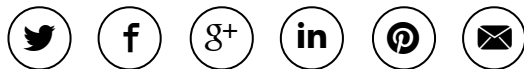


Thursday, October 13, 2016



The Latest Models of LCR-meter Smart Tweezers: LCR-Reader and ST-5 are Offered in Brazil by Grupo Unicoba

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Canadian Siborg Systems Inc. Advances in Promoting Smart Tweezers LCR-meter and LCR-Reader in South America by Signing an Agreement with Unicoba in Brazil

SAN PAULO, BRAZIL (PRWEB) FEBRUARY 28, 2014

Canadian [Siborg Systems Inc.](#) and Brazilian, San Paulo based Unicoba have agreed to jointly market Smart Tweezers LCR-meter and LCR-Reader in South America.

Unicoba offers customers a wide range of services including Advanced Technology in Electronic Manufacturing, Logistics and Sales Distribution through various business channels, Installation, Maintenance and Post-sales Services. It covers Telecommunication, infrastructure, Energy, IT, Security and Industrial sectors.

"Increasing use of Printed Circuit Boards (PCBs) with a high density of Surface Mount Devices (SMD)," says Michael Obrecht, Director at Siborg Systems Inc. "Stipulates the use of Smart Tweezers LCR-meter which is an indispensable tool for PCB repair. Unicoba is a large supplier of various electronic gadgets and equipment with offices all around Brazil. This makes them a very important representative in a quickly expanding Brazilian economy."

LCR-Reader, the successor of [Smart Tweezers LCR-meter](#) ST-5, was designed for measuring small SMT components that can be about 0.3 mm. Smart Tweezers measure in addition to the capacitance, equivalent series resistance of a capacitor, or parasitic resistance of an inductor. It also can be used for a continuity and diode test.

The new model, LCR-Reader, is lighter than the previous [Smart Tweezers](#) models, it is powered by Li-Ion rechargeable battery with a micro-USB connector port. Basic accuracy of the new device is about 1%. It has a simplified one button control turning the device on and changing the operation mode by a single button push.

On a picture to the right is a screen showing measurement of an inductance, where AM shows that the measurement mode is Automatic Mode, Rs specifies parasitic series resistance of the inductor, 10 kHz is the test frequency, L shows that the component measured is an inductance, 104.8 uH is the inductance in micro-Henrys, and the battery sign indicates the battery charge level.

Compared to ST-5 the following features are not available: automatic offset correction, component sorting, diode and continuity test. The most important drawback of LCR-Reader is the level of test signal which is 0.5 V rms that does not allow to use it for ceramic capacitors, similarly to ST-1, ST-2 and ST-3 it gives a lower value of the capacitance.

A comparison of features of the LCR-Reader and previous models is presented in this Smart Tweezers Comparison Table.

Feature Summary

Automatic measurement of Inductance, Capacitance, Resistance and ESR

Basic accuracy of 1%

Automatic selection of the best range

Lithium-Ion battery and USB charger connection port

Weight of 28 gramms (1 oz)

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.

About Unicoba:

Unicoba, a Brazilian company founded in 1973, conducts its business in different areas such as energy, electronics, information technology and services. It manufactures, imports, and distributes Industrial Batteries, Motorcycle Batteries, Rechargeable Batteries, Network Solutions, Set Top Boxes for cable TV, Welding Equipments, GPS Navigators, LED Lighting, Renewable Energy and Banking Automation Products.

The company offers its partners and customers a wide range of services:

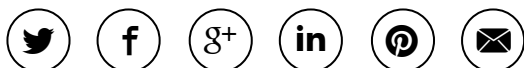
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LCR-Reader Akin to Smart Tweezers LCR-meter

A must for PCB debugging and testing

Contact Author

MICHAEL OBRECHT

Siborg Systems Inc

+1 (519) 888-9906

Email >



@smarttweezersus

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LCR-Reader Akin to Smart Tweezers LCR-meter
LCR-Reader akin to Smart Tweezers LCR-meter with labels



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



Smart Tweezers ST5 Manual
Smart Tweezers LCR-meter ST5 Manual



LCR-Reader Display
Details of measurement display of LCR-Reader akin to Smart Tweezers LCR-meter



Smart Tweezers LCR-meter simplifies PCB debugging
The main advantage of Smart Tweezers is virtually instantaneous and highly accurate evaluation of SMT components as small as 0.3 mm

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