

# LCR-Reader™

An efficient and convenient way to test SMD components



LCR-Reader™ is a professional quality, low cost LCR and ESR-meter. It provides the perfect solution for testing and identifying Surface Mount Devices (SMD), as well as troubleshooting complex electronic systems.

Its unique patented mechatronic design combines a pair of gold-plated tweezer probes and a digital LCR-meter in a compact, lightweight, battery powered instrument. It does fully automatic, highly accurate measurements of resistance, capacitance, inductance and equivalent series resistance.

SMDs are more difficult to test and identify due to their small sizes. LCR-Reader™ gives a unique way to sort and evaluate loose components and to perform on-board measurements and debugging. Gold-plated tweezer probes are able to reliably grip and make contact with even the smallest SMD components.

Automatic component identification simplifies measurements tremendously. LCR-Reader™ displays component type and simultaneously shows the secondary impedance parameter, such as parasitic resistance for capacitors and inductances. Automatic frequency selection guarantees the best test frequency based on a components type and value.

The compact, light-weight ergonomic design and bright OLED display allow the user to take measurements with one hand while focusing their attention on the tested component. A 4-wire shielded connection to the LCR-Reader™ tweezer probes ensures low parasitic offsets.

- Automatic or manual component evaluation
- Automatic best range selection
- Ideal for Surface Mount Devices
- Convenient one-hand operation
- Built-in high-precision gold plated probes for small-size devices
- Portable and ergonomic design
- High contrast OLED display
- Rechargeable Built-in Li-Ion battery

## Technical Specifications

Test frequency:	1 kHz, 10 kHz, 100 Hz
Test signal level:	0.5 +/- 5% Vrms Sine wave
Basic accuracy	1%

## Measurement Ranges

Resistance R:	0.05 $\Omega$ to 9.9 M $\Omega$
Capacitance C:	0.5 pF to 4999 $\mu$ F
Inductance L:	0.5 $\mu$ H to 999 mH

## Physical Specifications

Size:	14.8 x 2.0 x 1.5 cm (5.8 x 0.76 x 0.57 in)
Weight:	29 grams (0.063 lb)
Operating temperature:	0°C to 50°C
Battery Type:	3.7V LiPO rechargeable 220mAh
Battery Life: (continuous)	40 hours (2 hours charging cycle)