

# IntelliTweeze®

Intelligently designed to make locating a component a breeze.

The new IntelliTweeze® features a unique patented mechanical and electronic design that incorporates a built-in direct precision SMD probe designed for component evaluation on the production line, component impedance testing and sorting of SMD components.

### TM-500 Features:

- 0.2-0.5% base measurement accuracy
- ★ Manual C, R, L, Z and ESR modes
- Adjustable test signal levels
- Diode Polarity/Short Testing
- Secondary D, Q and ESR parameters

### **Technical Specifications**

AC test mode Test frequency: Test frequency accuracy: Test signal level: Source impedance: 1 kHz, 10 kHz, 120 Hz, 100 Hz 50 PPM (0.005%) 0.5/1.0 +/- 5% Vrms Sine wave  $100\Omega$  +/- 1%

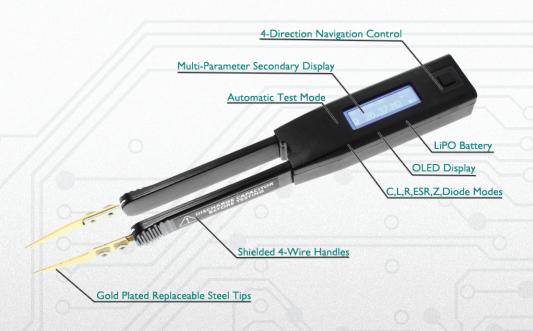
### **Measurement Ranges**

Resistance R: Capacitance C: Inductance L: Quality factor Q: Dissipation factor D:  $0.05~\Omega$  to  $9.9~M\Omega$  0.5~pF to  $4999~\mu F$  0.5~uH to 999~mH 0.001 to 10000.001 to 1000





## The all new IntelliTweeze® by KEXCELTA® SINCE 1957



### **Physical Specifications**

Operating Temperature:  $0 \,^{\circ}\text{C}$  to +50  $^{\circ}\text{C}$  Storage Temperature:  $-40 \,^{\circ}\text{C}$  to +70  $^{\circ}\text{C}$ 

Relative Humidity: 0 % to 90 % (0 °C to 35 °C) 0 % to 70 % (35 °C to 55 °C)

Altitude Operating: 0-2000 meters

Battery Type: 3.7 V LiPO rechargeable 150 mAh

Typical Charge Time: 2.5 Hours

Electromagnetic Compatibility (EMC): Susceptibility and Emission: CE 89/336, FCC 15 part B

Size: 14.0 x 2.5 x 3.0 cm (3.94 x 0.9 x 1.5 in)

Weight: 53 grams (0.11lb)

Warranty: 1 year

### **Basic Specifications**

Measured Parameters: L, C, R, ESR, D, Q

Measuring Frequencies: 100 Hz, 120 Hz, 1 kHz, 10 kHz

 $\begin{array}{lll} \text{Measurement Rate:} & 1 \text{ time per second} \\ \text{Resistance:} & 0.05 \text{ Ohms to } 9.9 \text{ MOhms} \\ \text{Capacitance:} & 0.5 \text{ pF to } 4,999 \text{ µF} \\ \text{Inductance:} & 0.5 \text{ µH to } 999 \text{ mH} \\ \text{Dissipation Factor:} & 0.001 \text{ to } 1000 \\ \end{array}$ 

### **Accuracy Specifications**

Accuracy is specified at 18°C to 28°C (64°F to 82°F), with relative humidity to 90%.

Resistance Accuracy:0.2% in range 100 R to 10 K, 0.5% in range 1 R to 1 MCapacitance Accuracy:0.2% in range 10 nF to 10 μF, 0.5% in range 100 pF to 1 mFInductance Accuracy:0.2% in range 10 mH to 100 mH, 0.5% in range 100 μH to 1H