

## INTRODUCTION

The LC1020E is a portable LCR Bridge Tester designed for laboratories, production lines, and field maintenance. It supports multi-parameter measurements (L/Q, C/D, R/D) with selectable series or parallel analysis, enabling rapid evaluation of component performance. Batch testing is made easy with audio-visual alerts for instant feedback. Supporting frequencies up to 100 kHz, it provides highly accurate measurements of inductors, capacitors, and resistors. Real-time data recording & data hold make it adaptable to a variety of scenarios. The 2.8-inch TFT color display delivers clear, easy-to-read data, while long battery endurance ensure reliable testing anywhere. Combining precision, portability, and ease of use, the LC1020E is an ideal testing solution for engineers, technicians, and electronics enthusiasts.

## FEATURES

- Multi-parameter Meas. (L/Q, C/D, R/D) with selectable mode series & parallel
- Wide frequency range: 100 Hz–100 kHz, RMS levels:0.1V/0.3V/0.6V
- Supports open/short calibration to compensate for fixture and lead effects
- High-precision measurement, 0.3% accuracy
- 0.1%–99.9% tolerance setting with automatic pass/fail judgment of components
- Real-time data recording & data hold, adaptable to a variety of scenarios.
- Supports automatic sleep mode for energy saving.
- Languages: English / Chinese



## Frequency & RMS Test Level Multi-Range Selectable

Offers 5 test frequencies and 3 RMS voltage levels for precise and versatile measurements.

100Hz  
120Hz  
1KHz  
10KHz  
100KHz

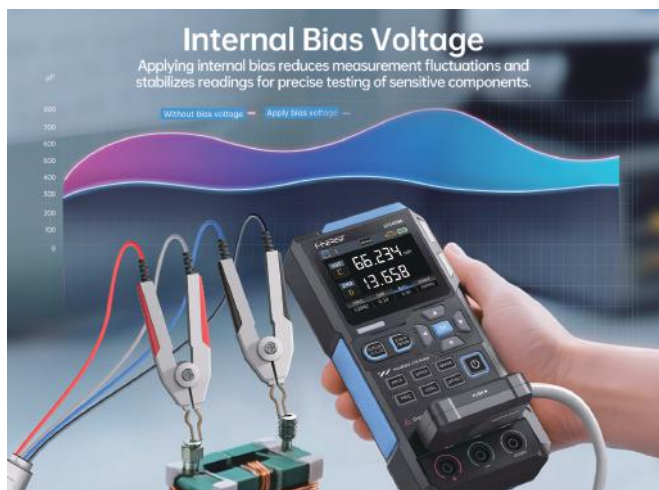
RMS Levels:0.1v

RMS Levels:0.3v

RMS Levels:0.6v

LC-1020E





## TECHNICAL SPECIFICATIONS

|                       |                                                       |                             |                                                                  |
|-----------------------|-------------------------------------------------------|-----------------------------|------------------------------------------------------------------|
| Test Frequency        | 100Hz/120Hz/1KHz/10KHz/100KHz                         | Basic Accuracy              | 0.3%                                                             |
| Display Digits        | Main/Secondary Parameter: 4.5 Digits                  | Measurement Parameters      | Main Parameter: AUTO/R/C/L/Z<br>Secondary Parameter: X/D/Q/θ/ESR |
| Measurement Range     | L: 0-100H, C: 0-100mF, R: 0-10M                       | Measurement Speed           | 4/s (Fast), 2/s (Medium), 1/s (Slow)                             |
| Internal Bias         | 0.0V / 0.5V                                           | Test Level                  | 0.1V / 0.3V / 0.6V                                               |
| Calibration Functions | Open Circuit Calibration<br>Short Circuit Calibration | Test Terminal Configuration | Three-terminal, Five-terminal                                    |
| Output Impedance      | 100Ω                                                  | Communication Interface     | USB-TypeC (Virtual Serial Port)                                  |
| Comparison Function   | ✓                                                     | Record Function             | ✓                                                                |
| Data Hold             | ✓                                                     | Audio-Visual Alert          | ✓                                                                |
| Auto-Off              | ✓                                                     | Brightness Adjustment       | ✓                                                                |

## GENERAL CHARACTERISTICS

|                      |                                                                                                            |                     |                          |
|----------------------|------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| Battery              | 3.7V/3000mAh lithium battery                                                                               | Display             | 2.8-inch TFT LCD display |
| Product Color        | Black & Blue                                                                                               | Product Size        | 185*85*35mm              |
| Product Net Weight   | 299g                                                                                                       | Standard Carton     | 42.5*42*28.5cm           |
| Carton Gross Weight  | 15.1kg                                                                                                     | Quantity Per Carton | 20 PCS                   |
| Standard Accessories | Main Device*1, Data Cable*1, Shorting Plate*1, Kelvin Test Clip*1, Test Leads (Black&Red)*1, User Manual*1 |                     |                          |