

## UT60EU

# Kannus IN UT60EU Digital Multimeter User Manual

Model: UT60EU

## 1. INTRODUCTION

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The Kannus IN UT60EU is a versatile digital multimeter designed for accurate measurement of various electrical parameters. It features True-RMS measurement, a 9999-count display, non-contact voltage (NCV) detection, and Bluetooth connectivity for enhanced functionality. This manual provides essential information for the safe and effective use of your multimeter.

## 2. SAFETY INFORMATION

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**Please read and understand all safety warnings and operating instructions before using this instrument. Failure to do so may result in injury or damage to the meter or equipment under test.**

- Always ensure the test leads are in good condition and properly connected.
- Do not apply voltage or current that exceeds the maximum rated limits of the meter.
- Exercise extreme caution when working with live circuits.
- Never operate the meter if it appears damaged or if the battery cover is not properly closed.
- Replace batteries promptly when the low battery indicator appears.

## 3. PRODUCT OVERVIEW

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The UT60EU digital multimeter is equipped with a large LCD display, a rotary function switch, input jacks for test leads, and various advanced features.

### Key Features:

- **True-RMS Measurement:** Ensures accurate readings for non-sinusoidal waveforms.
- **9999-Count Resolution:** Provides precise and detailed measurement results.
- **Non-Contact Voltage (NCV) Detection:** Allows for safe detection of AC voltage without direct contact.
- **Bluetooth Connectivity:** Enables wireless data transfer to compatible devices for logging and analysis.
- **Duty Cycle Measurement:** Measures duty cycles ranging from 0.1% to 99.9%.

### Component Identification:



**Figure 1: Front View of the UT60EU Digital Multimeter.** This image displays the front of the multimeter, showing the large digital display, the central rotary function switch, and the input jacks for connecting test leads at the bottom. The robust casing is visible.



**Figure 2: Back View of the UT60EU Digital Multimeter with Kickstand.** This image shows the rear of the multimeter, featuring the integrated kickstand extended for hands-free operation. The battery compartment cover is also visible on the back.

## 4. SETUP

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### 4.1 Battery Installation

1. Ensure the multimeter is turned off.
2. Locate the battery compartment on the back of the meter (refer to Figure 2).
3. Unscrew the retaining screw(s) and remove the battery cover.
4. Insert the required batteries, observing correct polarity (+ and -).
5. Replace the battery cover and secure it with the screw(s).

### 4.2 Connecting Test Leads

- Insert the black test lead into the 'COM' (common) input jack.
- For most voltage, resistance, and capacitance measurements, insert the red test lead into the 'VΩCAP' input jack.

- For current measurements (mA or A), insert the red test lead into the appropriate 'mA' or 'A' input jack.

## 5. OPERATING INSTRUCTIONS

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To operate the UT60EU, turn the rotary switch to the desired measurement function. The display will show the reading, and units will be indicated.

### 5.1 Measuring DC Voltage

1. Set the rotary switch to the 'VDC' position.
2. Connect the red test lead to the positive (+) side of the circuit and the black test lead to the negative (-) side.
3. Read the voltage value on the display.

### 5.2 Measuring AC Voltage

1. Set the rotary switch to the 'VAC' position.
2. Connect the test leads across the circuit or component to be measured.
3. Read the True-RMS AC voltage value on the display.

### 5.3 Measuring DC/AC Current

1. **Important:** Ensure the red test lead is connected to the appropriate 'mA' or 'A' input jack.
2. Set the rotary switch to the 'ADC' or 'AAC' position.
3. Open the circuit where current is to be measured and connect the meter in series.
4. Read the current value on the display.

### 5.4 Measuring Resistance

1. Ensure the circuit is de-energized before measuring resistance.
2. Set the rotary switch to the 'Ω' (Ohms) position.
3. Connect the test leads across the component.
4. Read the resistance value on the display.

### 5.5 Measuring Capacitance

1. Ensure the capacitor is fully discharged before measurement.
2. Set the rotary switch to the 'CAP' position.
3. Connect the test leads across the capacitor terminals.
4. Read the capacitance value on the display.

### 5.6 Non-Contact Voltage (NCV) Detection

1. Set the rotary switch to the 'NCV' position.
2. Move the top end of the multimeter near an AC voltage source.
3. The meter will indicate the presence of AC voltage through an audible beep and/or visual indicator.

### 5.7 Bluetooth Connectivity

The UT60EU supports Bluetooth for data transfer. Refer to the specific application instructions for pairing and data logging with your compatible device.

## 6. MAINTENANCE

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## 6.1 Cleaning

Wipe the meter with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the meter is dry before use.

## 6.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 4.1. Use only the specified battery type.

## 6.3 Storage

If the meter is not used for an extended period, remove the batteries to prevent leakage and store it in a cool, dry place away from direct sunlight.

## 7. TROUBLESHOOTING

- **No Display:** Check battery installation and charge. Replace batteries if necessary.
- **Incorrect Readings:** Ensure test leads are correctly connected to the appropriate input jacks and the rotary switch is set to the correct function. Verify the circuit is properly connected.
- **Meter Does Not Respond:** Turn the meter off and then on again. If the issue persists, remove and reinsert batteries.

If problems persist, contact customer support.

## 8. SPECIFICATIONS

Measurement	Range	Accuracy
DC Voltage	9.999mV / 99.99mV / 999.9mV / 9.999V / 99.99V / 999.9V	±(0.5%+3)
AC Voltage	9.999mV / 99.99mV / 999.9mV / 9.999V / 99.99V / 999.9V	±(0.8%+3)
DC Current	999.9µA / 999.9mA / 9.999A / 10A	±(0.8%+3)
AC Current	999.9µA / 999.9mA / 9.999A / 10A	±(1.0%+3)
Resistance	999.9Ω / 9.999kΩ / 99.99kΩ / 999.9kΩ / 9.999MΩ / 99.99MΩ	±(0.8%+2)
Capacitor	9.999nF / 99.99nF / 999.9nF / 9.999µF / 99.99µF / 999.9µF / 9.999mF / 9.99mF / 99.9mF	±(4.0%+5)

### General Specifications:

- **Brand:** Generic
- **Model:** UT60EU
- **Manufacturer:** KV Retailss
- **ASIN:** B0GHKXC9

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller/manufacturer directly. Keep your purchase receipt as proof of purchase.

