

## KAIWEETS HT118E

# KAIWEETS HT118E Digital Multimeter User Manual

Model: HT118E

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation of your KAIWEETS HT118E Digital Multimeter. The HT118E is a high-resolution, auto-ranging True RMS multimeter designed for accurate measurement of various electrical parameters. Please read this manual thoroughly before use and retain it for future reference.

## 2. SAFETY INFORMATION

**WARNING:** To avoid electric shock or personal injury, read and understand all safety information before using this multimeter.

- The KAIWEETS HT118E is IEC Rated CAT III 1000V and CAT IV 600V, CE, RoHS, and FCC certified.
- It features anti-burn protection with a double ceramic fuse and thermistor protection circuit.
- High Voltage Protection is active on all ranges.
- This is a double insulated unit.
- The silicone protective cover helps prevent damage from falls and electric shocks.
- Always ensure the test leads are correctly inserted into the appropriate jacks for the measurement being performed.
- Do not use the multimeter if it appears damaged or if the test leads are damaged.
- Observe all local and national safety codes.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- KAIWEETS HT118E Digital Multimeter
- Test Leads
- Thermocouples
- Batteries (pre-installed or separate)
- User Manual (this document)

- Durable Carrying Case



Figure 1: KAIWEETS HT118E Digital Multimeter with included 23-piece test leads kit. The image displays the multimeter's large LCD screen, rotary dial, function buttons, and input jacks, alongside a variety of test probes, alligator clips, and extension leads.

## 4. PRODUCT OVERVIEW AND FEATURES

The KAIWEETS HT118E is a versatile digital multimeter with advanced features for electrical testing:

- **High Resolution:** 20000 counts for precise measurements.
- **True RMS:** Accurate readings for non-sinusoidal waveforms.
- **Auto-Ranging:** Automatically selects the correct measurement range.
- **Integrated Flashlight:** For illumination in dimly lit work areas.
- **Min/Max Function:** Records minimum and maximum signal fluctuations.
- **Ergonomic Design:** Stable kickstand and pen slot for convenience.
- **Data Hold:** Freezes the displayed reading.

- **Auto Power-Off:** Conserves battery life.
- **Low Battery Prompt:** Indicates when battery power is low.
- **Measurement Capabilities:** AC/DC Voltage, AC/DC Current, Resistance, Temperature, Capacitance, Frequency, Duty-cycle, Diodes, Continuity, Non-Contact Voltage (NCV), and Live wire detection.

## 5. SETUP

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### 5.1 Battery Installation

The multimeter requires batteries for operation. If not pre-installed, open the battery compartment on the back of the unit, insert the batteries according to the polarity markings, and secure the cover. The device will display a low battery prompt when power is insufficient.

### 5.2 Connecting Test Leads

Always ensure the multimeter is OFF before connecting or disconnecting test leads.

1. Insert the black test lead into the "COM" (common) jack.
2. For most voltage, resistance, continuity, diode, capacitance, frequency, and temperature measurements, insert the red test lead into the "VΩHz%LiveC/°F" jack.
3. For current measurements up to 200mA, insert the red test lead into the "mA" jack.
4. For current measurements up to 10A, insert the red test lead into the "10A" jack.

The LED lights on the jacks will illuminate to guide you to the correct connection point when the rotary dial is set to a specific function.

## 6. OPERATING INSTRUCTIONS

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### 6.1 General Operation

Turn the rotary dial to select the desired measurement function. The multimeter features auto-ranging, simplifying operation by automatically selecting the appropriate range. The LCD backlight display offers clear readability.

### 6.2 Measurement Functions

- **Voltage (AC/DC):** Turn the dial to V~ (AC) or V- (DC). Connect leads in parallel with the circuit.
- **Current (AC/DC):** Turn the dial to A~ (AC) or A- (DC) for 10A, or mA~ (AC) or mA- (DC) for 200mA. Connect leads in series with the circuit.
- **Resistance (Ω):** Turn the dial to Ω. Connect leads across the component.
- **Continuity ()))**: Turn the dial to ))) . A beep indicates continuity.
- **Diode (->|)**: Turn the dial to ->|. Measures forward voltage drop.
- **Capacitance (F)**: Turn the dial to F. Connect leads across the capacitor.
- **Frequency (Hz) / Duty Cycle (%)**: Turn the dial to Hz%. Connect leads to the signal source.
- **Temperature (°C/°F)**: Turn the dial to °C/°F. Connect the thermocouple to the input jacks.
- **NCV (Non-Contact Voltage)**: Turn the dial to NCV. Bring the top of the multimeter near an AC voltage source to detect its presence without direct contact.
- **Live Wire Detection**: Turn the dial to Live. Use one test probe to detect live wires.

### 6.3 Special Functions

- **FUNC. Button:** Used to switch between different sub-functions within a single dial position (e.g., AC/DC in voltage mode, or different modes for Hz/%).

- **HOLD Button:** Press to freeze the current reading on the display. Press again to release.
- **MAX/MIN Button:** Press to enter MAX/MIN recording mode. The multimeter will display the maximum or minimum value measured since activation. Press again to cycle through MAX, MIN, and exit.
- **Backlight/Flashlight Button:** Activates the display backlight and the integrated flashlight.

## 7. MAINTENANCE

### 7.1 Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents.

### 7.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries promptly to ensure accurate readings. Refer to section 5.1 for battery installation instructions.

### 7.3 Fuse Replacement

The multimeter is protected by internal fuses. If the current measurement function fails, the fuse may need replacement. Fuse replacement should only be performed by qualified personnel. Refer to the specifications for correct fuse types.

## 8. TROUBLESHOOTING

- **No Display / Faint Display:** Check battery level and replace if necessary. Ensure batteries are installed correctly.
- **Incorrect Readings:** Verify test lead connections. Ensure the correct function is selected on the rotary dial. Check for damaged test leads.
- **Current Measurement Not Working:** Check the fuse. Ensure test leads are connected to the correct current input jacks (mA or 10A).
- **"OL" or "OVERLOAD" on Display:** The measured value exceeds the selected range. For auto-ranging meters, this indicates the value is beyond the meter's maximum capability for that function.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	HT118E
Brand	KAIWEETS
Display Counts	20000
Safety Rating	CAT III 1000V, CAT IV 600V
Certifications	CE, RoHS, FCC
Power Source	Battery Powered
Color	Black
Manufacturer	KAIWEETS

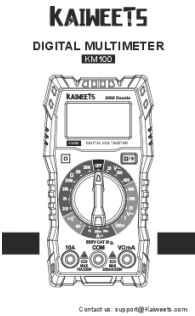





## 10. WARRANTY AND SUPPORT

KAIWEETS provides a **36-Month after-sale service** and **lifetime technical support** for the HT118E Digital Multimeter. For any concerns or technical assistance, please contact KAIWEETS customer service. Refer to the product packaging or the official KAIWEETS website for contact details.



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Related Documents - HT118E

	<p><a href="#">KAIWEETS KM100 Digital Multimeter User Manual</a></p> <p>Comprehensive guide to the KAIWEETS KM100 Digital Multimeter, covering safety operations, meter diagram, functions, measurement procedures for DC/AC voltage, DC current, resistance, continuity, and diode testing, along with technical specifications and maintenance.</p>
	<p><a href="#">Kaiweets KM601 Smart Digital Multimeter User Manual</a></p> <p>Comprehensive user manual for the Kaiweets KM601 Smart Digital Multimeter, covering safety information, product features, measurement modes (SMART and MANUAL), terminal descriptions, maintenance, specifications, and warranty.</p>
	<p><a href="#">KAIWEETS HT206B True-RMS Digital Clamp Meter User Manual</a></p> <p>Comprehensive user manual for the KAIWEETS HT206B True-RMS Digital Clamp Meter, detailing its features, safety information, operating instructions, and specifications for various electrical measurements.</p>
	<p><a href="#">KAIWEETS HT206D True-RMS Digital Clamp Meter User Manual</a></p> <p>Comprehensive user manual for the KAIWEETS HT206D True-RMS Digital Clamp Meter. Learn about its features, safety information, operating instructions, and specifications for accurate electrical measurements.</p>
	<p><a href="#">Kaiweets HT118A Digital Multimeter User Manual</a></p> <p>Comprehensive user manual for the Kaiweets HT118A digital multimeter, covering its features, functions, and safe operation for various electrical measurements.</p>
	<p><a href="#">KAIWEETS HT113B Digital Multimeter User Manual</a></p> <p>Comprehensive user manual for the KAIWEETS HT113B Digital Multimeter, detailing its features, specifications, and operating instructions for accurate electrical testing.</p>