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› KAIWEETS KMF-01 3-in-1 Digital Multimeter and Cable Locator User Manual

KAIWEETS KMF-01

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1. INTRODUCTION

The KAIWEETS KMF-01 is an innovative 3-in-1 tool designed for comprehensive electrical testing. This device integrates a self-ranging digital multimeter, a professional RJ45/RJ11 cable locator, and an NCV (Non-Contact Voltage) detector into a single unit. It is engineered to meet various electrical testing needs efficiently and cost-effectively.

This manual provides detailed instructions for the safe and effective use of your KAIWEETS KMF-01. Please read it thoroughly before operation and keep it for future reference.

1 KIT = 3 STRUMENTI PROFESSIONALI

Risparmia sui costi e sullo spazio



Ricevitore

Trasmettitore

① Trasmettitore + Ricevitore :

Tracciatore di cavi

Tracciatore di cavi RJ45/RJ11, mappatura e test di controllo qualità

② Trasmettitore:

Multimetro autonomo

Misura tensione/corrente/resistenza/continuità/diodo/capacità/frequenza/temperatura

③ Ricevitore:

Tester NCV autonomo

Rilevamento di tensione senza contatto

3 utilizzi indipendenti - Massima flessibilità



Figure 1: KAIWEETS KMF-01 highlighting its three integrated functions.

2. SAFETY INFORMATION

Always adhere to basic safety precautions when using electrical testing equipment to prevent potential electric shock, injury, or damage to the device or equipment under test.

- **Read Instructions:** Familiarize yourself with all operating instructions and safety warnings before use.

- **Proper Use:** Use the device only as specified in this manual. Misuse can impair the protection provided by the equipment.
- **Qualified Personnel:** Electrical testing should only be performed by qualified personnel.
- **Inspect Before Use:** Before each use, inspect the device and test leads for any damage. Do not use if damaged.
- **Avoid Live Circuits:** Do not touch exposed wiring or terminals when power is applied.
- **Voltage Limits:** Do not exceed the maximum input limits for any function.
- **Battery Safety:** Ensure correct battery polarity and replace batteries when the low battery indicator appears.
- **Environmental Conditions:** Do not operate the device in wet environments or in the presence of explosive gases or dust.

3. PRODUCT COMPONENTS

The KAIWEETS KMF-01 package includes all necessary accessories for immediate use:

- Transmitter Unit (Multimeter)
- Receiver Unit (NCV Detector / Cable Tracer Probe)
- Insulated Test Leads
- K-Type Thermocouple
- RJ45 Cable
- RJ11 Adapter Cable with Alligator Clip
- 3 x 9V Batteries
- User Manual (this document)
- Portable Carrying Case

COSA RICEVERAI

Pronto all'uso appena estratto dalla confezione



Figure 2: All items included in the KAIWEETS KMF-01 kit.

4. SETUP

4.1 Battery Installation

The KMF-01 units require 9V batteries for operation. Locate the battery compartments on the back of both the Transmitter and Receiver units. Open the covers, insert the 9V batteries observing the correct polarity, and then securely close the

covers.

4.2 Connecting Test Leads

For multimeter functions, insert the red test lead into the 'INPUT' jack and the black test lead into the 'COM' (common) jack on the Transmitter unit. Ensure connections are firm before taking measurements.

5. OPERATING INSTRUCTIONS

5.1 Digital Multimeter (Transmitter Unit)

The Transmitter unit functions as a standalone smart multimeter with a 4000-count LCD display, data hold, backlight, and auto-power off after 15 minutes of inactivity.

5.1.1 Automatic Ranging Mode

In automatic mode, the multimeter automatically measures AC/DC voltage, resistance, and continuity. Simply select the 'AUTO' function on the rotary dial, and the device will detect the measurement type.

MULTIMETRO AUTONOMO COMPLETO

Selezione automatica della portata, True RMS 4000 conteggi



MODALITÀ MANUALI →

-  Corrente CA/CC
-  Diodo
-  Capacità
-  Frequenza
-  Temperatura

MODALITÀ AUTOMATICHE →

-  Tensione CA/CC
-  Resistenza
-  Continuità

Figure 3: Multimeter in automatic ranging mode.

5.1.2 Manual Ranging Mode

For specific measurements, switch to manual mode to access functions including voltage (AC/DC), resistance, continuity, current, diode, capacitance, frequency, and temperature. Use the 'SEL' button to cycle through functions within a single rotary dial position if multiple functions share a setting.

RIPARA QUALSIASI CIRCUITO, OVUNQUE

Perfetto per proprietari di casa, elettricisti e tecnici



Figure 4: Examples of multimeter applications.

5.2 NCV Detector (Receiver Unit)

The Receiver unit operates as a standalone non-contact voltage tester. It identifies live wires, hidden wall cables, and outlets without direct contact. Audible signals and LED warnings indicate the presence of voltage, helping to prevent electric shocks. An integrated illuminator assists in low-light conditions.

To use, turn on the Receiver unit and bring its tip close to the suspected live area. The device will emit beeps and flash LEDs if voltage is detected.

RILEVATORE DI TENSIONE AUTONOMO

La sicurezza prima di tutto: rileva la tensione senza contatto

NCV

Modalità NCV



Modalità NCV
Torcia



Principali vantaggi del NCV:

- Rilevamento wireless
- Avviso di presenza di filo sotto tensione
- Uso singolo

Figure 5: NCV detection in action.

5.3 Cable Tracer (Transmitter + Receiver Units)

Combine the Transmitter and Receiver units to quickly locate RJ45/RJ11 cables. The anti-interference design ensures a stable signal for accurate tracing.

5.3.1 Cable Tracing

Connect the RJ45 or RJ11 cable to the appropriate port on the Transmitter. Activate the tracing function. Use the Receiver unit to follow the cable path. The Receiver will emit an audible tone and display signal strength indicators as it gets closer to the cable.

INDIVIDUAZIONE SEMPLICE DEI CAVI

Tecnologia anti-interferenza: individua i cavi con maggiore precisione



Figure 6: Simple cable tracing for RJ45 and RJ11 cables.

5.3.2 Cable Sequence and Crimping Quality Check

The KMF-01 supports cable sequence checking (open circuits, short circuits, crossed wires) and crimping quality checks for crystal heads. This is ideal for diagnosing and maintaining wiring faults.

- **Cable Mapping:** Connect both ends of the RJ45/RJ11 cable to the Transmitter and Receiver. The display will show the wiring sequence and identify any faults.
- **Crimping Quality:** The device can detect issues like open connectors, short circuits, incorrect wiring, and faulty crimps.
- **Line Continuity Test:** Use the test leads with the Transmitter and Receiver to check for continuity in various lines.



Figure 7: Cable mapping and crimping quality checks.

5.3.3 Adjustable Sensitivity and Flashlight

The Receiver unit features adjustable sensitivity to help locate cables more easily and precisely. It also includes a built-in flashlight for working in dark environments.



Figure 8: Adjustable sensitivity and flashlight feature.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your KAIWEETS KMF-01.

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its carrying case in a cool, dry place when not in use. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate readings.
- **Test Lead Inspection:** Regularly check test leads for cuts, cracks, or damaged insulation. Replace damaged leads immediately.

7. TROUBLESHOOTING

If you encounter issues with your KAIWEETS KMF-01, refer to the following common problems and solutions:

- **Device Not Powering On:**
 - Check if batteries are installed correctly.
 - Replace with fresh 9V batteries.
- **Inaccurate Readings:**
 - Ensure test leads are properly connected.
 - Verify the correct function and range are selected (if not in auto mode).
 - Check battery level; low batteries can affect accuracy.
- **Cable Tracer Not Detecting:**
 - Ensure both Transmitter and Receiver units are powered on.
 - Check cable connections to the Transmitter.
 - Adjust the sensitivity of the Receiver unit.
- **NCV Detector Not Responding:**
 - Ensure the Receiver unit is powered on.
 - Confirm the presence of AC voltage in the area being tested with a known live source.

If problems persist, please contact KAIWEETS customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	KAIWEETS
Model	KMF-01
Power Source	Battery (3 x 9V batteries included)
Display	4000 Counts LCD
Auto-ranging	Yes

Feature	Specification
True RMS	Yes
Auto Power Off	After 15 minutes
Weight	250 Grams
Color	Black
Functions	AC/DC Voltage, Resistance, Continuity, Current, Diode, Capacitance, Frequency, Temperature, NCV, RJ45/RJ11 Cable Tracing, Cable Mapping, Crimping Quality Check

9. WARRANTY AND SUPPORT

KAIWEETS stands behind the quality and performance of its electrical tools. The KMF-01 comes with **3-year hassle-free warranty**. We also provide 24/7 customer service and lifetime technical support to ensure a risk-free purchase and satisfactory user experience.

For warranty claims, technical assistance, or any inquiries, please contact KAIWEETS customer support through our official channels or visit the KAIWEETS store:

[Visit the KAIWEETS Store on Amazon](#)