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## KKnoon ET618

# KKnoon TOOLTOP ET618 Handheld Portable Cable Tester User Manual

Model: ET618

## 1. INTRODUCTION

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The KKnoon TOOLTOP ET618 is a versatile handheld portable cable tester designed for network and electrical professionals. It integrates multiple functions including cable tracing, cable length measurement, Power over Ethernet (PoE) testing, and a full-featured digital multimeter. This manual provides detailed instructions for the safe and effective use of your ET618 device.



Figure 1: KKnoon TOOLTOP ET618 Handheld Portable Cable Tester (Main Unit and Receiver)

## 2. SAFETY INFORMATION

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Please read and understand all safety warnings and operating instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not use the device if it appears damaged or is not operating correctly.
- Always ensure the device is powered off before connecting or disconnecting cables.
- Do not expose the device to moisture or extreme temperatures.
- Use only the specified charging cable and accessories.
- Do not attempt to open or repair the device; refer all servicing to qualified personnel.
- Be cautious when working with live circuits, especially during multimeter functions.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- 1 x ET618 Host (Main Unit)
- 1 x Receiver
- 1 x User Manual (this document)
- 1 x Clip Line
- 1 x Network Cable
- 1 x Recharging Line (USB cable)
- 1 x Storage Bag
- 1 x Temperature Probes
- 1 x Multimeter Probes

## 4. PRODUCT OVERVIEW

The ET618 combines a cable tester and a digital multimeter into one compact device. It features an LCD display for clear readings and a built-in flashlight for use in low-light conditions.



Figure 2: ET618 Main Unit and Receiver with Dual Flashlight

## Key Features:

- **Cable Tracing:** Quickly locate target cables in bundles.
- **Cable Length Test:** Measure the length of various metal cables up to 500 meters.
- **PoE Test:** Check cable mapping polarity and voltage of PoE network switches.
- **Multimeter Functions:** Measure DC/AC voltage, DC/AC current, resistance, continuity, diode, and temperature.
- **LCD Display:** Large screen for clear data visualization.
- **Flashlight:** Integrated light for improved visibility in dark environments.
- **Adjustable Sensitivity:** Digital tracing sensitivity can be adjusted.

## Recyclable charging The lithium battery



Figure 3: Product Differentiation (ET616 vs. ET618)

The ET618 model includes all features of the ET616, plus a comprehensive multimeter function and an extended cable length measurement range of up to 500 meters.

## 5. SETUP

### 5.1 Charging the Battery

The ET618 main unit is powered by a rechargeable lithium battery. Before first use, fully charge the device.

1. Connect the provided recharging line (USB cable) to the charging port on the ET618 main unit.
2. Connect the other end of the USB cable to a standard USB power adapter (not included) or a computer USB port.
3. The charging indicator on the device will show the charging status. Once fully charged, disconnect the cable.



Figure 4: Charging the ET618 Lithium Battery

## 5.2 Powering On/Off

Press and hold the power button on the main unit to turn the device on or off. The LCD display will illuminate upon power-on.

## 6. OPERATING INSTRUCTIONS

### 6.1 Cable Tracing Function

This function helps locate a specific cable among many, useful for telephone systems, computer networks, and BNC cables.

1. Connect the cable to be traced to the appropriate port on the ET618 main unit (e.g., RJ45 for network cables).

2. Select the "Trace" mode on the main unit.
3. Use the receiver to scan the cables. The receiver will emit an audible tone or visual indication when it detects the signal from the target cable.
4. Adjust the sensitivity on the receiver for precise tracing.

## 6.2 Cable Length Test

Measure the length of various metal cables with at least two cores, including network cables, telephone lines, and BNC cables.

1. Ensure the cable is disconnected from any active network or power source.
2. Connect one end of the cable to the main unit's appropriate port.
3. Select the "Length" test mode. The device will display the measured cable length on the LCD.

## 6.3 POE Test

Test Power over Ethernet (PoE) network switches to check cable mapping polarity and voltage.

1. Connect the network cable from the PoE switch to the main unit's RJ45 port.
2. Select the "POE" test mode.
3. The LCD will display information regarding PoE voltage and cable mapping.

## 6.4 Multimeter Function (ET618 Only)

The ET618 includes a full-featured multimeter for various electrical measurements. Use the provided multimeter probes for these tests.



Figure 5: ET618 Multimeter Functions in Use

- **DC Voltage Measurement:** Connect probes to the circuit, select DCV mode.
- **AC Voltage Measurement:** Connect probes to the circuit, select ACV mode.
- **DC Current Measurement:** Connect probes in series with the circuit, select DCA mode.
- **AC Current Measurement:** Connect probes in series with the circuit, select ACA mode.
- **Resistance Measurement:** Connect probes across the component, select  $\Omega$  mode.
- **Continuity Test:** Connect probes across the circuit; a beep indicates continuity.
- **Diode Test:** Connect probes across the diode; the forward voltage drop will be displayed.
- **Temperature Measurement:** Connect the temperature probe to the device and place the sensor at the measurement point.

*Always ensure the correct function is selected and probes are connected properly to avoid damage to the device or circuit.*

## 6.5 Using the Flashlight

The ET618 main unit and receiver are equipped with flashlights. Press the dedicated flashlight button (if available) or refer to the device interface for activation in low-light conditions.

## 7. MAINTENANCE

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### 7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.

### 7.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the device for an extended period, charge it to approximately 50% and recharge every few months.

## 8. TROUBLESHOOTING

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- **Device does not power on:** Ensure the battery is charged. Connect the recharging line and try again.
- **Inaccurate readings:** Check cable connections. Ensure the correct mode is selected for the measurement. For multimeter functions, verify probe connections and component integrity.
- **No signal during cable tracing:** Ensure the main unit is in trace mode and the cable is properly connected. Adjust receiver sensitivity.
- **LCD display is dim:** The battery might be low. Recharge the device.

## 9. SPECIFICATIONS

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The following table outlines the technical specifications for the ET618 model:

# Technical parameters

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Basic Functions	ET616	ET618
Analogue Tracing	✓	✓
Continuity	✓	By Multimeter function
Switch Tracing (w/ PoE)	✓	✓
Cable Mapping	✓	✓
Switch indicators flashing	✓	✓
Noisy Free Digital Tracing	Digital	Digital / Vibration
Voltage Testing	✓	By Multimeter function
PoE Voltage Measuring	Voltage / Polarity	Voltage / Polarity
Remote ID Mapping	Optional	Optional
Analogue Bargraph	✓	✓
NCV Detection	✓	✓
Other Functions	Main Body flashlight, multimeter input jack indicator, LCD display, white flashlight, analogue tracing sound adjustable, digital tracing sensitivity adjustable, low battery indicator, white backlight, energy saving, tracing distance 3km, analogue tracing signal selectable	
Special Functions		
Multimeter Functions		✓
DC Voltage		400mV~1000V±(0.8%+3)
AC Voltage		4V~400V±(1.5%+5)
DC Current		1.0A~10.0A±(1.2%+4)
AC Current		1.0A~10.0A±(2.0%+5)
Resistance		200Ω~20MΩ±(2%+6)
Continuity		< 50Ω buzzer beeps
Diode		✓
Temperature (k-type)		-20~1000°C±(2.0%+15)
Network Cable Length Measure	400M	500M
BNC Cable Length Measure	✓	✓
Network Cable Short / Open Circuit Test	✓	✓
Powered by	Main Body : 1250mA/H rechargeable Lithium Battery/Receiver : 9V Battery	
Package	Gift Box / Manual / Carrying Bag / RJ45 Cable / Alligator Clip Cable	Gift Box / Manual / Carrying Bag / RJ45 Cable / Testleads / k-type Temperature Probe
	*Remote ID Unit is an optical accessories *The specification listed above is only the best specifications	

Figure 6: Technical Specifications Overview

Feature	ET618 Specification
Analogue Tracing	Yes
Continuity	Yes
Switch Tracing (w/ PoE)	By Multimeter function
Cable Mapping	Yes
Switch indicators flashing	Yes
Noisy Free Digital Tracing	Digital / Vibration
Voltage Testing	By Multimeter function
PoE Voltage Measuring	Voltage / Polarity
Remote ID Mapping	Optional

Feature	ET618 Specification
Analogue Bargraph	Yes
Main Body Flashlight	Yes
Multimeter Input Jack Indicator	Yes
LCD Display	Yes
White Flashlight	Yes
Analogue Tracing Sound Adjustable	Yes
Low Battery Indicator	Yes
White Backlight	Yes
Energy Saving Indicator	Yes
3km Analogue Tracing Signal Selectable	Yes
<b>Multimeter Functions (ET618 Only)</b>	
DC Voltage	400mV~1000V $\pm(0.8\%+3)$
AC Voltage	4V~400V $\pm(1.5\%+5)$
DC Current	1.0A~10.0A $\pm(1.2\%+4)$
AC Current	1.0A~10.0A $\pm(2.0\%+5)$
Resistance	200 $\Omega$ ~20 M $\Omega$ $\pm(2\%+6)$
Continuity	< 50 $\Omega$ buzzer beeps
Diode	Yes
Temperature (K-type)	-20~1000°C / -4~1832°F $\pm(2.0\%+15)$
Network Cable Length Measure	500M
BNC Cable Length Measure	Yes
Network Cable Short / Open Circuit Test	Yes
Main Body Power	1250mAh Rechargeable Lithium Battery
Receiver Power	9V Battery

## 10. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official KKnoon website.

