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Hantek TO1154C

Hantek TO1154C Touch Screen Digital Oscilloscope User Manual

Model: TO1154C | Brand: Hantek

1. Introduction

The Hantek TO1154C is a versatile, multi-functional handheld device designed for electronic testing and measurement. It integrates a digital storage oscilloscope, a high-precision multimeter, and an arbitrary function signal generator into a single, portable unit. This manual provides essential information for the safe and effective operation, setup, and maintenance of your device.

Image: The Hantek TO1154C device showcasing its integrated functions, including oscilloscope, multimeter, signal generator, data recorder, frequency meter, and FFT spectrum analyzer.

Video: An overview of the Hantek TO1000 series oscilloscope, highlighting its multi-touch screen, portability, anti-shock design, and integrated functions such as oscilloscope, multimeter, waveform generator, and spectrum analyzer, along with its long-lasting battery and fast charging capabilities.

2. Safety Information

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in electric shock, fire, or damage to the device.

- Use only the specified power adapter and charging cable.
- Do not operate the device in wet or damp conditions.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- Do not attempt to open or modify the device. Refer all servicing to qualified personnel.
- Ensure proper grounding when connecting to circuits.

3. Product Overview

The Hantek TO1154C features a multi-touch large screen with a resolution of 800x480 pixels, providing a user-friendly interface. Its compact and lightweight design makes it highly portable. The device is equipped with anti-shock corners and a unique suspension foot design for enhanced durability and hands-free operation.



Image: Front view of the Hantek TO1154C, showing its touch screen display and various input/output ports on the side.



Image: The Hantek TO1154C demonstrating its suspension foot design, allowing for hands-free placement on a surface or hanging.

4. Setup

4.1 Initial Charging

Before first use, fully charge the device. The Hantek TO1154C includes a built-in 10000mAh detachable lithium battery and supports 18W Type-C fast charging. Connect the provided Type-C charger to the device's charging port and a power outlet. The charging indicator will show the charging status.



Image: An internal view illustrating the super-capacity lithium batteries within the Hantek TO1154C, emphasizing long battery life.

Image: A close-up of the Hantek TO1154C's Type-C charging port, highlighting its fast charging capability.

4.2 Power On/Off

To power on the device, press and hold the power button located on the side until the screen illuminates. To power off, press and hold the power button again until the shutdown prompt appears, then confirm.

5. Operating Instructions

5.1 Oscilloscope Function

The TO1154C model features 4 oscilloscope channels with a maximum bandwidth of 150MHz, a sampling rate of 1GSa/s, and an 8M storage depth. It supports various trigger types including Edge, Slope, Pulse Width, Video, and Timeout. Up to 42 measurement functions are available for detailed waveform analysis.

Image: The Hantek TO1154C display showing multiple waveforms on its screen, illustrating its digital storage oscilloscope capabilities.

5.2 Digital Multimeter Function

The integrated high-precision multimeter allows for measurements of AC and DC voltage, current, resistance, capacitance, and diode testing, as well as on-off measurements. It includes a data recording function to monitor and record changes in electrical parameters over time, generating trend charts for analysis.



Image: The Hantek TO1154C display showing a voltage measurement in its digital multimeter mode, complete with waveform visualization.

5.3 Signal Generator Function

The arbitrary function signal generator has a maximum output frequency of 25MHz, 12-bit high resolution, and a 200Ms/s sampling rate. It features a variety of built-in arbitrary waveforms and supports AM/FM modulation. The output resistance can be switched between high and low settings.



Image: The Hantek TO1154C display showing the interface for its arbitrary function signal generator, with settings for waveform type, frequency, and amplitude.

5.4 Other Functions

The device also includes a data recorder, frequency meter, and FFT spectrum analyzer, enhancing its utility for various measurement and analysis tasks.

6. Maintenance

6.1 Cleaning

To clean the device, use a soft, dry cloth. Do not use abrasive cleaners or solvents. For the screen, use a screen-specific cleaning solution and a microfiber cloth.

6.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Store the device in a cool, dry place when not in use for extended periods. The built-in lithium battery is designed for long endurance, with standby time up to half a year.

7. Troubleshooting

- **Device does not power on:** Ensure the battery is charged. Connect the charger and attempt to power on again.
- **Screen is unresponsive:** Perform a soft reset by holding the power button for an extended period (e.g., 10-15 seconds) until the device restarts.
- **Inaccurate measurements:** Check probe connections and calibration settings. Refer to the relevant operating section for specific function calibration.
- **Charging issues:** Verify the Type-C cable and adapter are functioning correctly. Try a different compatible charger.

8. Specifications

The Hantek TO1154C is part of the TO1000 Series, offering robust performance for various applications.

8.1 General Specifications

- **Product Dimensions:** 17.6 x 24.8 x 5.4 cm
- **Weight:** 1.5 kg
- **Manufacturer:** Hantek
- **Country of Origin:** China

8.2 Model Comparison (TO1000 Series)

Image: A table detailing the specifications of various Hantek TO1000 series models, including oscilloscope channels, bandwidth, sampling rate, storage depth, signal source, and multimeter availability.

8.3 Detailed Parameters

Image: A table presenting detailed technical parameters for the Hantek TO1000 series, covering aspects like horizontal scale range, A/D converter, vertical scale range, and vertical sensitivity range for both 1G Sampling and 250M Sampling models.

9. Warranty and Support

For warranty information and technical support, please refer to the official Hantek website or contact your local distributor. Keep your purchase receipt for warranty claims.

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