Hantek 1008C

Hantek 1008C PC USB 8CH Automotive Diagnostic Digital Oscilloscope User Manual

1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your Hantek 1008C PC USB 8-Channel Automotive Diagnostic Digital Oscilloscope. The Hantek 1008C is designed for comprehensive vehicle testing, offering functions such as ignition analysis, sensor monitoring, bus detection, performance evaluation, and starter/charging circuit diagnostics. It connects to a personal computer via USB, utilizing dedicated software for data acquisition and analysis.

2. Product Overview

The Hantek 1008C is an 8-channel digital oscilloscope specifically engineered for automotive diagnostic applications. It functions as a data acquisition unit (DAQ) and a programmable signal generator. Its compact design allows for easy integration with a PC, transforming your computer into a powerful diagnostic tool. The device features multiple BNC input connectors for connecting various probes and sensors, along with a USB port for PC communication.



Figure 2.1: Side view of the Hantek 1008C oscilloscope, illustrating the 8 BNC input channels and the USB connection port.

3. Package Contents

Verify that all items listed below are present in your package upon unboxing:

- Hantek 1008C Oscilloscope Unit
- Instruction CD (containing software and drivers)
- Auto Probe
- 4x Alligator clip to coaxial cables
- 4x Coaxial connectors
- USB Cable
- Carrying Case (may vary by package)



Figure 3.1: All components included with the Hantek 1008C, neatly arranged for inspection.

4. Setup Instructions

1. **Software and Driver Installation:**
   Insert the provided Instruction CD into your computer's CD-ROM drive. Follow the on-screen prompts to install the Hantek 1008C software and necessary drivers. If your computer lacks a CD drive or you require updated versions, visit the official Hantek website to download the latest software and drivers. Ensure compatibility with your operating system (Windows XP is officially supported; users have reported success with Windows 7, 8, and 10 with updated drivers).
2. **Connect the Oscilloscope:**
   Connect the Hantek 1008C unit to your computer using the supplied USB cable. The computer should detect the device and complete driver installation automatically if not already done.
3. **Connect Probes:**
   Attach the appropriate probes and cables (e.g., alligator clip cables, auto probe) to the BNC input channels on the oscilloscope unit, depending on the specific automotive test you intend to perform.

4. **Launch Software:**
   Once the device is connected and drivers are installed, launch the Hantek 1008C diagnostic software on your computer. The software should recognize the connected oscilloscope.



Figure 4.1: The Hantek 1008C in an operational setup, connected to a laptop for automotive diagnostics.

5. Operating Instructions

The Hantek 1008C software provides a user interface for performing various automotive diagnostic tests. The software includes over 80 pre-configured diagnostic functions, simplifying the setup for common tests.

- **Selecting Diagnostic Functions:** Navigate through the software interface to select the desired automotive diagnostic function (e.g., Ignition, Sensor, Bus detection, Performance, Starter and charging circuits). The software will automatically configure the oscilloscope settings for the chosen test.
- **Real-time Data Acquisition:** Once a test is selected and probes are connected to the vehicle, the software will display real-time waveforms and data. Monitor these readings for anomalies or expected patterns.
- **Video Help Function:** The software includes a video help function that provides online video tutorials for various diagnostic procedures. Access this feature for guidance on specific tests.
- **Data Saving and Reporting:** Diagnostic results can be saved, printed, or captured as screenshots directly from the software. This allows for documentation and further analysis.

- **Programmable Generator:** Utilize the programmable generator function to output various waveforms for testing components or circuits.

Refer to the software's built-in help documentation for detailed instructions on each specific diagnostic function and advanced features.

6. Maintenance

- **Cleaning:** Keep the oscilloscope unit and probes clean. Use a soft, dry cloth to wipe the exterior. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the device and its accessories in a dry, dust-free environment, preferably in its original carrying case, when not in use.
- **Cable Care:** Inspect cables and connectors regularly for damage. Replace any frayed or damaged cables to ensure accurate readings and safe operation.
- **Software Updates:** Periodically check the Hantek official website for software and driver updates to ensure optimal performance and compatibility.

7. Troubleshooting

If you encounter issues with your Hantek 1008C, consider the following troubleshooting steps:

- **Device Not Recognized:**
  - Ensure the USB cable is securely connected to both the oscilloscope and the computer.
  - Verify that the correct drivers are installed. Reinstall drivers if necessary, downloading the latest version from the Hantek website.
  - Try a different USB port on your computer.
  - Restart your computer.
- **Software Crashes or Freezes:**
  - Ensure your operating system is compatible and up-to-date.
  - Update the Hantek software to the latest version.
  - Close other demanding applications running on your computer.
  - If persistent, try uninstalling and reinstalling the software.
- **Inaccurate or No Waveform Display:**
  - Check all probe connections to the oscilloscope and the vehicle. Ensure they are secure and correctly attached.
  - Verify that the correct diagnostic function and settings are selected in the software for the test being performed.
  - Inspect probes and cables for damage.
  - Ensure the vehicle's ignition is on or the engine is running, as required by the test.
- **Language Issues (Software in Chinese):**
  - Some users report that connecting the scope to the USB port before launching the software can resolve this, forcing the software to default to English.
  - Check software settings for language options.

For further assistance, refer to online resources such as user forums and YouTube tutorials, or contact Hantek technical

support.

8. Specifications

Feature	Specification
Model Number	01HAN1008C
Channels	8
Connectivity	PC USB
Operating System Compatibility	Windows XP (and reported compatibility with Windows 7, 8, 10 with updated drivers)
Product Dimensions	7.48 x 6.57 x 1.38 inches
Weight	1.1 Pounds
Date First Available	February 22, 2013
UPC	519240055676, 888827975264, 799418588438, 700220341029

9. Warranty and Support

The Hantek 1008C is provided as a new product with good quality. Hantek offers a 2-year EU spare part availability duration.
For technical support, warranty claims, or inquiries regarding spare parts, please contact Hantek directly through their official website or authorized service centers. When contacting support, please have your product's serial number ready. The serial number for your unit can be found on the product packaging.



Figure 9.1: Product packaging displaying the Hantek 1008C model number and serial number (e.g., S/N:CN2242005073507).

Note: The serial number provided in the image is an example (S/N:CN2242005073507). Please refer to your specific product packaging for your unit's unique serial number.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

What are the laptop requirements for the Hantek 1008C automotive diagnostic oscilloscope?

The Hantek 1008C does not require a specific "dedicated" laptop model, but it does have specific operating system and connectivity requirements to function correctly:Operating System: The device officially supports Windows XP. However, the manual...

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