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## Hantek 6022BE

# Hantek 6022BE 2CH USB Digital Oscilloscope User Manual

Model: 6022BE

## 1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Hantek 6022BE 2-channel USB Digital Oscilloscope. The Hantek 6022BE is a PC-based instrument designed for electronic measurement and analysis, offering a 20 MHz bandwidth and a 48 MSa/s real-time sample rate. It connects to your computer via USB, utilizing software for waveform display and analysis.

## 2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and avoid damage to the instrument or connected devices:

- **Power Source:** The device is powered via USB. Ensure your computer's USB port provides stable power.
- **Probe Usage:** Use only the provided probes or compatible accessories. Ensure probes are correctly connected before applying power to the circuit under test.
- **Environmental Conditions:** Operate the oscilloscope in a dry environment, away from moisture, dust, and extreme temperatures.
- **Maintenance:** Refer all servicing to qualified personnel. Do not attempt to open or modify the device.
- **Input Voltage Limits:** Do not exceed the maximum input voltage ratings specified for the oscilloscope channels.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Hantek 6022BE USB Digital Oscilloscope Unit
- USB Cable
- Oscilloscope Probes (2 units)
- Software CD
- Quick Start Guide / Manual



**Figure 3.1:** Contents of the Hantek 6022BE package, including the oscilloscope unit, two probes, a USB cable, a software installation CD, and a user manual.

## 4. SETUP

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### 4.1 System Requirements

- Operating System: Windows 10, Windows 8, Windows 7, Windows NT, Windows XP, Vista.
- USB Port: Available USB 2.0 port.

### 4.2 Hardware Overview

Dimensions: 200\*120\*35mm

Weight: 0.3KG



Figure 4.1: Detailed view of the Hantek 6022BE's front and rear panels, highlighting Channel 1 (CH1), Channel 2 (CH2) BNC inputs, Probe Compensation Output, Ground Terminal, USBXI interface, and the USB socket for PC connection.

### 4.3 Driver and Software Installation

1. **Connect the Device:** Connect the Hantek 6022BE to your computer using the provided USB cable.
2. **Install Drivers:** Insert the software CD into your computer's optical drive. Navigate to the driver installation directory and run the setup file. Follow the on-screen instructions. *Note: On Windows 10, you may need to temporarily disable driver signature enforcement if installation issues occur.*
3. **Install Application Software:** After driver installation, proceed to install the Hantek oscilloscope application software from the CD.
4. **Verify Installation:** Once installation is complete, launch the Hantek software. The software should detect the connected oscilloscope.

### 4.4 Probe Connection

Connect the oscilloscope probes to the BNC input connectors (CH1 and CH2) on the front panel of the Hantek 6022BE. Ensure a secure connection. Calibrate probes as needed using the probe compensation output.

## 5. OPERATING THE OSCILLOSCOPE

The Hantek 6022BE operates entirely through its PC software interface. Familiarize yourself with the software layout for effective use.

### 5.1 Basic Operation

- Launch Software:** Start the Hantek oscilloscope application on your computer.
- Channel Selection:** Enable or disable Channel 1 (CH1) and Channel 2 (CH2) as required for your measurement.
- Vertical Scale (Volts/Div):** Adjust the vertical scale for each channel to properly display the amplitude of your signal.
- Horizontal Scale (Time/Div):** Adjust the horizontal scale to view the desired time duration of the waveform.
- Trigger Settings:** Configure the trigger source (CH1, CH2), trigger type (edge, pulse), and trigger level to stabilize the waveform display.
- Measurement Functions:** Utilize the software's built-in measurement tools to analyze waveform parameters such as frequency, peak-to-peak voltage, RMS, etc.



Figure 5.1: The Hantek 6022BE in operation, connected to a computer, with the software displaying multiple signal waveforms for analysis.

## 5.2 Key Features

- **Bandwidth:** 20 MHz
- **Real-time Sample Rate:** 48 MSa/s
- **Channels:** 2 Analog Channels
- **Interface:** USB 2.0, USBXI standard for combined instrument setups.

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and accuracy of your Hantek 6022BE oscilloscope.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the oscilloscope in a cool, dry place when not in use. Protect it from dust and physical impact.
- **Probe Care:** Handle probes carefully. Avoid bending or stressing the cables.

## 7. TROUBLESHOOTING

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If you encounter issues, refer to the following common problems and solutions:

- **Device Not Recognized:**

- Ensure the USB cable is securely connected to both the oscilloscope and the computer.
- Try a different USB port on your computer.
- Verify that the drivers are correctly installed. Reinstall drivers if necessary.
- For Windows 10, temporarily disable driver signature enforcement during driver installation if issues persist.

- **Software Not Launching or Crashing:**

- Ensure your operating system meets the minimum requirements.
- Reinstall the application software.
- Check for updated software versions on the Hantek website.

- **Inaccurate Measurements:**

- Perform probe compensation to match the probe to the oscilloscope input.
- Ensure correct vertical and horizontal scale settings.
- Check probe attenuation settings (e.g., 1X, 10X) and ensure they match the software settings.

## 8. SPECIFICATIONS

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Feature	Specification
Model Name	6022BE
Brand	Hantek
Analog Bandwidth	20 MHz
Real-time Sample Rate	48 MSa/s
Channels	2

Feature	Specification
Interface	USB 2.0, USBXI Standard
Operating System Compatibility	Windows 10, 8, 7, NT, XP, Vista
Material	Aluminum
Product Dimensions (L x W x H)	23 x 17 x 0.1 cm (approximate, device only)
Product Weight	720 grams (approximate, device only)
Recommended Uses	Electronics maintenance, research, and education

## 6002BE oscilloscope

Bandwidth: 20MHz

Sample Rate: 48MSa/s

Rise Time: 17.5ns

Channel: 2(Digital)+16(Logic)

Memory Depth: 1M



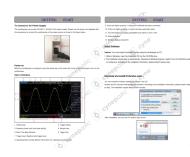
Figure 8.1: Visual representation of the Hantek 6002BE highlighting its core technical specifications.

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or further inquiries, please refer to the official Hantek website or contact your local distributor. General support resources may be found at [Hantek Support](#).

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## Related Documents - 6022BE

	<p><a href="#">Hantek 6022BE User Manual: Portable PC Oscilloscope Guide</a></p> <p>Download the Hantek 6022BE user manual for this portable PC-based USB oscilloscope. Learn about its features, setup, operation, and troubleshooting for testing, research, and educational applications.</p>
<a href="#">Preview</a>	<p><a href="#">Hantek 6022BE Portable Oscilloscope User Manual</a></p> <p>Comprehensive user manual for the Hantek 6022BE portable USB oscilloscope, detailing installation, operation, safety, features, measurements, and technical specifications.</p>
	<p><a href="#">Hantek 6022BL User's Manual: Getting Started, Operation, and Features</a></p> <p>Comprehensive user manual for the Hantek 6022BL USB digital storage oscilloscope. Covers system requirements, software installation, driver setup, general features, operating basics, understanding functions, application examples, and technical specifications.</p>
<a href="#">Preview</a>	<p><a href="#">Hantek DSO5102P Digital Storage Oscilloscope User Manual</a></p> <p>A comprehensive user manual for the Hantek DSO5102P Digital Storage Oscilloscope, detailing its features, operation, safety guidelines, troubleshooting, and technical specifications for effective electronic testing and measurement.</p>
	<p><a href="#">Hantek DSO4084C Digital Oscilloscope Quick Start Guide</a></p> <p>A concise guide to connecting, installing software, and understanding the user interface of the Hantek DSO4084C digital oscilloscope, covering power connection, software setup, PC interface, and front panel controls.</p>
<a href="#">Preview</a>	<p><a href="#">Hantek DSO2D20</a> -</p> <p>Hantek DSO2D20</p>