

SEEIRIR SCO2

SEEIRIR SCO2 Dual Channel Digital Oscilloscope User Manual

Model: SCO2

1. INTRODUCTION

This manual provides detailed instructions for the proper use, setup, operation, and maintenance of the SEEIRIR SCO2 Dual Channel Digital Oscilloscope. Please read this manual thoroughly before operating the device to ensure safe and efficient use.

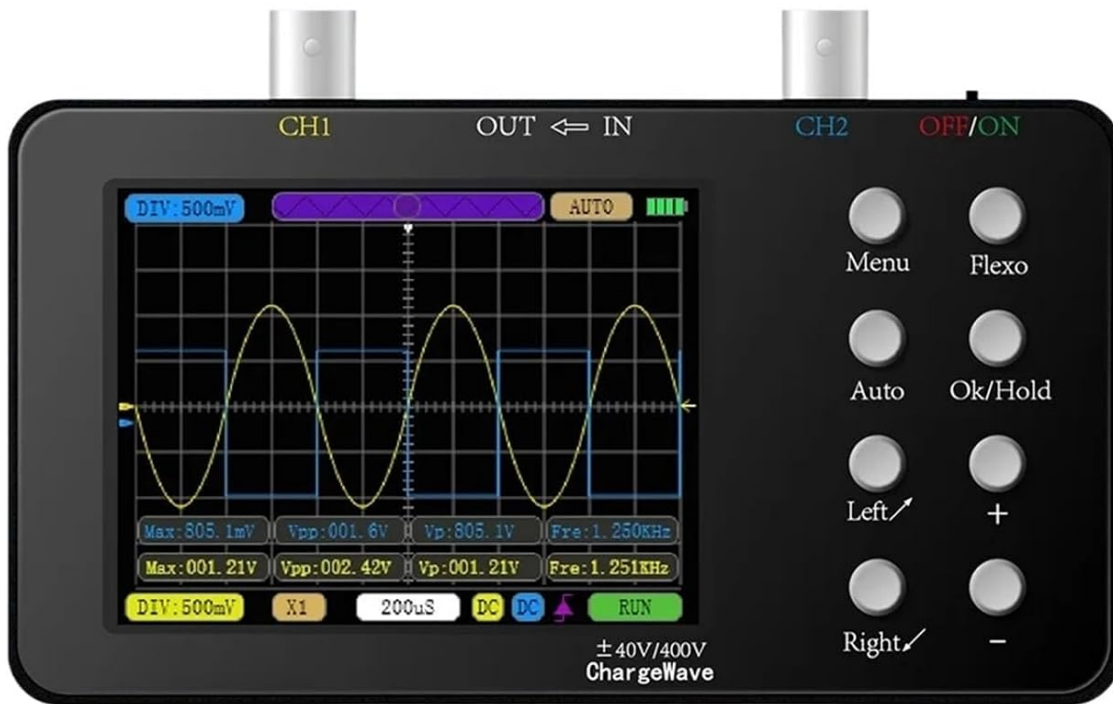
2. PRODUCT OVERVIEW

The SEEIRIR SCO2 is a cost-effective, portable dual-channel digital oscilloscope designed for basic electronic maintenance and repair tasks. It features a clear display, intuitive knob and button operation, and automatic measurement capabilities.

Key Features:

- Dual Channel Input for simultaneous waveform display.
- Automatic measurement of frequency, voltage, and duty cycle.
- USB storage for waveform data export.
- Portable and lightweight design for laboratory or outdoor use.
- Intuitive knob and button interface for ease of use.

Device Layout:



This image displays the front panel of the SCO2 oscilloscope. The screen shows two channels, CH1 and CH2, with their respective waveforms. CH1 displays a sine wave, and CH2 displays a square wave. Key measurements like Max, Vpp, Vp, and Frequency are visible for both channels. Below the screen, settings such as DIV: 500mV, X1, 200uS, and DC coupling are shown. To the right of the screen are control buttons: Menu, Flexo, Auto, Ok/Hold, Left/+, and Right/-. The power switch (OFF/ON) is located at the top right.

3. SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove the oscilloscope and all accessories from the packaging. Verify that all components listed in the packing list are present.
2. **Power Connection:** Connect the provided power adapter to the oscilloscope's power input port and then to a suitable power outlet. Ensure the device is fully charged before initial use if it has an internal battery.
3. **Probe Connection:** Connect the oscilloscope probes to the CH1 and CH2 input connectors on the top of the device. Ensure a secure connection.
4. **Power On:** Press the 'OFF/ON' button located on the top right of the device to power on the oscilloscope. The display should illuminate.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

- **Power On/Off:** Use the 'OFF/ON' button to power the device.
- **Channel Selection:** The device supports two channels, CH1 and CH2. Connect your signals to the respective input ports.
- **Vertical Sensitivity (DIV):** Adjust the vertical scale using the 'Left /' and 'Right /' buttons in conjunction with the 'Menu' or 'Flexo' buttons to navigate to the DIV setting. The display shows the current DIV setting (e.g., DIV: 500mV).
- **Time Base:** Adjust the horizontal time scale (e.g., 200uS) using the appropriate controls, typically the '+' and '-' buttons after selecting the time base option.

4.2 Automatic Measurement

The SCO2 oscilloscope features an 'Auto' button for quick and automatic waveform analysis.

1. Connect the signal to be measured to CH1 or CH2.
2. Press the 'Auto' button. The oscilloscope will automatically adjust the vertical and horizontal scales and display key parameters such as Max, Vpp (Peak-to-Peak Voltage), Vp (Peak Voltage), and Frequency (Fre).
3. The 'Ok/Hold' button can be used to pause the waveform display for closer inspection. Press again to resume live display.

4.3 Waveform Data Export (USB Storage)

The device supports exporting waveform data for further analysis on a computer.

1. Ensure a USB storage device (e.g., USB flash drive) is connected to the oscilloscope's USB port (if available, or follow specific menu instructions for data transfer).
2. Navigate to the 'Menu' and select the 'Save' or 'Export' option.
3. Follow the on-screen prompts to save the current waveform data to the connected USB device.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the oscilloscope. For stubborn dirt, a slightly damp cloth with mild detergent can be used, ensuring no liquid enters the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the oscilloscope in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. Keep it protected from dust and vibrations.
- **Battery Care:** If the device has a rechargeable battery, ensure it is charged regularly, even if not in use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Probe Care:** Handle probes carefully. Avoid bending or stressing the cables. Store them properly to prevent damage.

6. TROUBLESHOOTING

- **No Power:**
 - Check if the power adapter is securely connected to both the oscilloscope and the power outlet.
 - Ensure the power outlet is functional.
 - If battery-powered, ensure the battery is charged.

- **No Waveform Display:**

- Verify that the input signal is connected correctly to CH1 or CH2.
- Check probe connections and ensure they are not faulty.
- Adjust the vertical (DIV) and horizontal (Time Base) scales to match the expected signal characteristics.
- Press the 'Auto' button to attempt automatic signal detection and display.

- **Incorrect Readings:**

- Ensure probes are properly calibrated (if applicable).
- Check the input coupling (AC/DC) settings.
- Verify the signal source is stable and within the oscilloscope's measurement range.

7. SPECIFICATIONS

Parameter	Value
Model	SCO2
Digital Channels	2
Analog Bandwidth	10 MHz
Sampling Rate	2.5 KSa/S (50M PWM)
Display Size	3.0 - 4.9 Inches
Item Weight	400 g
Origin	China

8. WARRANTY AND SUPPORT

The SEEIRIR SCO2 Digital Oscilloscope comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact SEEIRIR customer support. For technical assistance, troubleshooting, or service inquiries, please contact your retailer or the manufacturer's support channels. Keep your purchase receipt and product serial number handy when contacting support.

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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.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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