

## Atten ADS1062CML

# Atten ADS1062CML Digital Storage Oscilloscope User Manual

Model: ADS1062CML

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the safe and efficient operation of your Atten ADS1062CML Digital Storage Oscilloscope. Please read this manual thoroughly before using the device to ensure proper setup, operation, and maintenance. Keep this manual for future reference.

### Safety Precautions

- Always connect the oscilloscope to a properly grounded power outlet.
- Do not operate the device in wet or damp conditions.
- Ensure the power cord is undamaged and correctly rated for your region's voltage.
- Avoid touching exposed circuits when the device is powered on.
- Refer all servicing to qualified personnel.

## 2. PRODUCT OVERVIEW

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The Atten ADS1062CML is a 60 MHz Digital Storage Oscilloscope featuring a 7-inch LCD display and a sample rate of 50 GSa/S. It is designed for accurate waveform analysis in various electronic testing applications. This section provides an overview of the oscilloscope's main components and features.

Large items are packed in cartons with corner protectors. Foam wrap inside the carton prevents product damage



**Figure 2.1:** Front view of the Atten ADS1062CML Digital Storage Oscilloscope, showing the 7-inch LCD screen, control knobs, and input connectors.

## Electronic components are packed in anti-static bags



**Figure 2.2:** Side view of the Atten ADS1062CML Digital Storage Oscilloscope, illustrating the probe connections and ventilation ports.

### Key Features:

- 60 MHz Bandwidth
- 7-inch Color LCD Display
- 50 GSa/S Sample Rate (Equivalent Time Sampling)
- Multiple Measurement Functions
- Intuitive User Interface

## 3. SETUP

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### 3.1 Unpacking and Inspection

Carefully remove the oscilloscope and all accessories from the packaging. Inspect the device for any signs of damage during transit. If any damage is found, contact your supplier immediately.

## 3.2 Power Connection

1. Ensure the oscilloscope's power switch is in the OFF position.
2. Connect the provided power cord to the power input on the rear panel of the oscilloscope.
3. Plug the other end of the power cord into a grounded AC power outlet.

## 3.3 Probe Connection

Connect the oscilloscope probes to the BNC input connectors on the front panel. Ensure the probe's ground clip is securely connected to the circuit's ground point when making measurements.

## 3.4 Initial Power On

Press the power button on the front panel. The device will perform a self-test and the display will illuminate. Allow a few moments for the system to initialize.

# 4. OPERATING INSTRUCTIONS

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## 4.1 Basic Controls

- **Vertical Controls:** Adjust the vertical position and voltage scale (Volts/Div) for each channel.
- **Horizontal Controls:** Adjust the horizontal position and time base (Sec/Div).
- **Trigger Controls:** Set the trigger level, mode, and source to stabilize the waveform display.
- **Menu Buttons:** Access various functions and settings displayed on the LCD screen.

## 4.2 Making a Measurement

1. Connect the probe to the circuit point you wish to measure, ensuring the ground clip is connected to circuit ground.
2. Select the appropriate channel (e.g., CH1, CH2) using the front panel buttons.
3. Adjust the Volts/Div and Sec/Div settings to display the waveform clearly on the screen.
4. Adjust the trigger level to stabilize the waveform.
5. Use the measurement functions (if available) to automatically display parameters like frequency, peak-to-peak voltage, etc.

## 4.3 Saving Waveforms and Settings

The oscilloscope may offer options to save waveform data or instrument settings to internal memory or a USB storage device. Refer to the on-screen menus for specific instructions on saving and recalling data.

# 5. MAINTENANCE

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## 5.1 Cleaning

To clean the exterior of the oscilloscope, use a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the casing and display. Ensure the device is powered off and unplugged before cleaning.

## 5.2 Storage

When not in use for extended periods, store the oscilloscope in a dry, dust-free environment, away from direct sunlight and extreme temperatures. It is recommended to keep the original packaging for safe storage and

transport.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Power cord not connected; power outlet faulty; power switch off.	Check power cord connection; test power outlet; ensure power switch is ON.
No waveform displayed.	Probe not connected; signal source off; vertical/horizontal settings incorrect; trigger not set.	Connect probe to signal source; ensure signal source is active; adjust Volts/Div and Sec/Div; adjust trigger level and mode.
Waveform is unstable or rolling.	Trigger settings incorrect; signal noise.	Adjust trigger level and mode; ensure proper grounding; use averaging functions if available.

## 7. SPECIFICATIONS

Parameter	Value
Model	ADS1062CML
Bandwidth	60 MHz
Display	7-inch Color LCD
Sample Rate	50 GSa/S (Equivalent Time Sampling)
Manufacturer	Atten

## 8. WARRANTY AND SUPPORT

For technical support, warranty information, or service inquiries, please contact your supplier or the manufacturer directly. If you have any questions or encounter problems, please reach out to the support team. They aim to respond within 24 hours and provide a satisfactory resolution.

*Note: Specific warranty terms and conditions may vary by region and retailer. Please refer to your purchase documentation for details.*