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SNDWAYTOOLS SW524

SNDWAYTOOLS SW524 Digital Sound Level Meter User Manual

Model: SW524 | Brand: SNDWAYTOOLS

1. Introduction

This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of the SNDWAYTOOLS SW524 Digital Sound Level Meter. This high-precision device is designed for accurate sound level measurements across various environments, offering features such as data logging, real-time display, and PC connectivity.

2. Safety Information

Please read and understand all safety warnings and operating instructions before using this device to ensure safe and optimal performance.

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid strong impacts or dropping the device.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Keep the microphone clean and free from obstructions for accurate measurements.

3. Product Overview

3.1 Components and Controls



The SW524 Sound Level Meter, shown here with the three AAA batteries required for operation. The device features a clear LCD display and intuitive button layout for easy control.



The SW524 can connect to a computer via USB, allowing for real-time data monitoring, analysis, and report generation using its dedicated application software.

4. Specifications

Parameter	Value
Product Name	Digital Sound Level Meter
Microphone	6mm Built-in Condenser Mic
Measurement Range	30dB ~ 130dB
Measurement Accuracy	±1.5dB
Frequency Band	31.5Hz ~ 8.5KHz
Frequency Characteristics	A/C Weighting

Parameter	Value
Resolution	0.1dB
Measurement Time Constant	FAST (125ms) / SLOW (1s)
Signal Output	AC Analog / DC Analog
Waterproof Level	IP54
Operating Temperature	0 ~ 40℃ (10 ~ 80%RH)
Storage Temperature	-10 ~ 60℃ (10 ~ 70%RH)
Body Material	Hard ABS
Power Supply	3 x AAA Batteries (included)
Dimensions	215 x 63.5 x 27mm
Weight	265g (excluding batteries)
Country of Origin	China

5. Setup

5.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert three AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

5.2 Initial Power On

Press and hold the power button (①) located at the bottom of the device until the LCD screen illuminates. The device will perform a self-test and then display the current sound level reading.

6. Operating Instructions

6.1 Basic Measurement

Once powered on, the device will automatically begin measuring sound levels in real-time. The current sound pressure level (SPL) in decibels (dB) will be displayed on the main screen. Ensure the microphone is pointed towards the sound source for accurate readings.

6.2 MAX/MIN Measurement



The device can display the maximum (MAX) and minimum (MIN) sound levels recorded during a measurement session within the 30dB to 130dB range.

Press the **MAX/MIN** button to cycle through real-time, maximum, and minimum sound level displays. The corresponding indicator (MAX or MIN) will appear on the screen.

6.3 A/C Frequency Weighting



The device supports both A and C frequency weighting. A-weighting mimics the human ear's response, while C-weighting provides a flatter response for measuring peak noise levels.

Press the **A**/**C** button to switch between A-weighting and C-weighting. A-weighting is commonly used for environmental noise measurements, while C-weighting is suitable for analyzing the true peak sound pressure of machinery or impulsive noise.

6.4 FAST/SLOW Response



The device offers FAST (125ms) and SLOW (1s) response times. FAST is ideal for capturing sudden noise changes, while SLOW provides a more averaged reading for stable noise levels.

Press the **FAST/SLOW** button to toggle between fast and slow response times. Choose FAST for rapidly changing noise levels and SLOW for more stable or average readings.

6.5 Data Logging and PC Communication



The SW524 features large internal memory, capable of storing up to 61,200 sets of data at a frequency of 60 sets per minute, allowing for up to 17 hours of continuous recording.



Connect the device to a PC via USB to utilize the dedicated application for real-time monitoring, data analysis, and generating reports, including Excel output.

The device has a large capacity built-in memory for automatic data saving. To access and analyze recorded data, connect the sound level meter to a computer using a USB cable. Install the dedicated software (usually provided on a mini-CD or available for download from the manufacturer's website). The software allows for real-time data display, historical data retrieval, graphical analysis, and export to formats like Excel for further processing and report printing.

6.6 High-Sensitivity Condenser Microphone



The SW524 utilizes a 6mm high-sensitivity condenser microphone, designed to accurately capture sound with minimal distortion, ensuring precise measurements.

The integrated 6mm high-sensitivity condenser microphone ensures accurate and reliable sound capture across the measurement range.

6.7 Analog Output (AC/DC)

The device provides both AC and DC analog signal outputs, offering flexibility for connection to external recording devices, data loggers, or analyzers. Refer to the specifications for output voltage ranges.

6.8 Backlight Function

The LCD screen is equipped with a backlight for improved visibility in low-light conditions. Press the backlight button (often indicated by a light bulb icon) to turn the backlight on or off.

7. Maintenance

7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep the microphone clean and free of dust or debris.

7.2 Storage

When not in use, store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.

7.3 Battery Replacement

Replace batteries when the low battery indicator appears on the display. Follow the battery installation steps outlined in Section 5.1.

7.4 Durability Features



The SW524 is designed with an IP54 rating, making it resistant to dust and splashes, and features a robust, shock-resistant ABS body for enhanced durability.

The device features an IP54 rating for dust and splash resistance, and its hard ABS body provides shock resistance, making it suitable for various environments.

8. Troubleshooting

If you encounter issues with your SNDWAYTOOLS SW524, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Device does not power on	Low or dead batteries; Incorrect battery polarity	Replace batteries; Check battery orientation
Inaccurate readings	Microphone obstructed; Device not calibrated; Environmental interference	Clean microphone; Contact support for calibration; Move to a quieter environment
PC software not detecting device	USB cable issue; Driver not installed; Software not running	Try a different USB port/cable; Install drivers from manufacturer's website; Ensure software is open
Display is dim or flickering	Low batteries; Backlight setting	Replace batteries; Adjust backlight setting

9. Warranty and Support

9.1 Warranty Information

The SNDWAYTOOLS SW524 Digital Sound Level Meter comes with an initial warranty. In case of defects within one week of product arrival, a new product exchange will be provided, with round-trip shipping costs covered by the manufacturer.
An extended 12-month warranty is available for customers who submit a product review within one week of receiving the product. This extends the total warranty period to 12 months from the date of purchase.

9.2 Customer Support

For technical assistance, warranty claims, or any other inquiries, please contact SNDWAYTOOLS customer support through the retailer's platform or the official brand website. Please have your product model number (SW524) and purchase details ready when contacting support.

Ask a question about this manual

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Details

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