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› Naroot SW-525A Decibel Meter User Manual

Naroot SW-525A

Naroot SW-525A Decibel Meter User Manual

Model: SW-525A | Brand: Naroot

1. PRODUCT OVERVIEW

The Naroot SW-525A is a digital sound level meter designed for accurate measurement of sound levels in various environments. It features a large LCD display for clear readings and can be wall-mounted for convenient placement. This device is suitable for monitoring noise in factories, offices, homes, and other locations.



Figure 1: Front view of the Naroote SW-525A Decibel Meter displaying a reading of 68.0 dB.

Key Features:

- Large digital LCD display for clear readings.
- Measuring range of 30-130dB.
- Indicator flashing and buzzer alarm function for high sound levels.
- Wall-mountable design with integrated hanging holes.
- USB powered (DC 5V 1A Micro USB).

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Naroote SW-525A Sound Level Meter
- 1 x User Manual (this document)
- 1 x USB Cable



Figure 2: Included USB cable for power supply.

3. DEVICE COMPONENTS

Familiarize yourself with the main components of the SW-525A Decibel Meter:



Figure 3: Labeled diagram of the decibel meter's components, including the LED digital tube display, condenser microphone sensor, alarm switch indicator light, and hook hole.

- **LED Digital Tube Display:** Shows the current sound level in decibels (dB).
- **Condenser Microphone Sensor:** Detects ambient sound levels.
- **Alarm Switch Indicator Light:** Illuminates when the sound level exceeds a set threshold.
- **Hook Hole:** Located on the back for wall mounting.
- **USB Power Input:** Micro USB port for power supply.
- **Control Buttons:** (Specific functions not detailed in product data, but typically include power, alarm settings, and calibration adjustments).

4. SETUP INSTRUCTIONS

4.1 Power Connection

1. Connect the provided USB cable to the Micro USB port on the side of the SW-525A device.
2. Plug the other end of the USB cable into a DC 5V 1A USB power adapter (not included) or a compatible USB power source.
3. The device will power on automatically and begin displaying sound levels.

4.2 Wall Mounting

The SW-525A is designed for wall mounting to ensure stable and continuous monitoring.

1. Identify a suitable location on a wall, ensuring it is free from obstructions and at a height that allows for clear visibility and accurate sound measurement.
2. Use appropriate screws or hooks (not included) that fit the hanging holes located on the back of the device.
3. Securely mount the device to the wall. Ensure the power cable can reach the device without strain.



Figure 4: Rear view of the device, highlighting the hook holes for wall mounting.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

1. Once powered on, the device will immediately begin measuring and displaying the current sound level in decibels (dB) on the large LED screen.
2. The measuring range is 30-130dB. Readings outside this range may not be accurate.

3. Ensure the microphone sensor is not obstructed for accurate readings.

5.2 Alarm Function

The SW-525A features an indicator flashing and buzzer alarm function to alert users when sound levels exceed a predefined threshold.

- The alarm threshold is typically factory-set or can be adjusted via the control buttons (refer to specific button functions if available on the device).
- When the measured sound level surpasses the set threshold, the alarm indicator light will flash, and a buzzer will sound.
- To silence or reset the alarm, press the appropriate control button (e.g., the alarm switch button, if present).

5.3 Control Buttons

The device includes control buttons, typically located on the side or bottom, for various settings. While specific functions are not detailed in the general product information, common controls for decibel meters include:

- **Power Button:** To turn the device on/off (if not always-on when powered).
- **Up/Down Buttons:** For adjusting alarm thresholds or other settings.
- **Mode/Set Button:** To cycle through display modes or enter settings.



Large digital LCD display that provides clear readings
Measuring range is 30~130dB,
with indicator flashing and buzzer alarm function

Figure 5: Side view showing the USB port and control buttons. Consult the device for specific button labels and functions.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Microphone Care:** Keep the microphone sensor clean and free from dust or debris to ensure accurate readings. Avoid touching the microphone directly.
- **Power Supply:** Always use a DC 5V 1A Micro USB power source. Using an incorrect power supply may damage the device.

7. TROUBLESHOOTING

If you encounter issues with your Naroote SW-525A, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on.	No power supply or faulty USB cable/adapter.	Ensure the USB cable is securely connected. Try a different USB power adapter or port. Verify the power source provides DC 5V 1A.
Inaccurate or fluctuating readings.	Obstructed microphone, device interference, or environmental factors.	Ensure the microphone is clean and unobstructed. Relocate the device away from strong electromagnetic fields or vibrations.
Alarm not triggering.	Alarm threshold set too high or alarm function disabled.	Check the alarm settings using the control buttons. Ensure the sound level exceeds the set threshold.
Display is blank or frozen.	Temporary software glitch or power issue.	Disconnect and reconnect the power supply to restart the device.

8. SPECIFICATIONS

Detailed technical specifications for the Naroote SW-525A Decibel Meter:

Model	SW-525A
Measuring Range	30-130dB
Accuracy	±1.5 dB (In standard sound 94db @ 1khz)
Frequency Response	31.5Hz-8.5kHz
Frequency Weighting	A
Response Time	Fast
Microphone	6 mm Condenser Microphone
Power	DC 5V 1A Micro USB
Operating Environment	0-40°C, 10-80% RH
Storage Temperature and Humidity	-10~60°C, 10~70% RH
Dimensions (L x W x H)	Approx. 210 x 130 x 30 mm (8.3 x 5.1 x 1.2 in)
Weight	Approx. 608g (21.8oz) / 0.61 Kilograms
Manufacturer	Naroote
Country of Origin	China
UPC	719233947821



Figure 6: Device dimensions: 210 mm (8.3 in) length, 130 mm (5.1 in) width, 30 mm (1.2 in) thickness.

9. WARRANTY AND SUPPORT

Naroote is committed to providing high-quality products and excellent customer service. If you have any questions regarding product specifications, usage methods, or require assistance with your SW-525A Decibel Meter, please contact our customer support.

For issues such as damaged products due to logistics, or if you are not satisfied with the product, please reach out to us. We aim to provide a satisfactory reply and solution within 24 hours.

Please refer to your purchase documentation or the seller's contact information for specific warranty details and support channels.