

# SOUND LEVEL METER

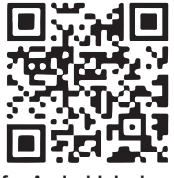
## USER MANUAL



Please scan the QR code below to download the "dB-Tester" app:



for iOS devices  
(ver. 9.0 or above)



for Android devices  
(ver. 5.0 above)



SCAN THE QR CODE

to download the USER MANUAL in different languages and SOFTWARE

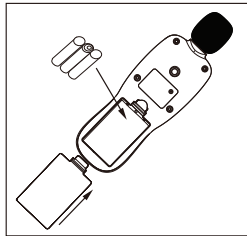
TUTORIAL VIDEO ON HOW TO USE

Need more help? CONTACT US.

https://cd50.net/30b

## OPERATING INSTRUCTIONS

- 1). Open the battery cover and insert 3 AAA size 1.5V batteries.
- 2). Close the battery cover.
- 3). Read the sound level:  
Short press , the current noise level will be displayed on the screen instantly. The value is changing according to the environmental noise magnitude.



- 4). MIN/MAX Mode:  
Press to enter "MIN" mode, the value will be locked until a smaller one appear; Press again to enter "MAX" mode, the value will be locked until a higher one appear; Press button once more to return to the measuring mode.
- 5). Hold the measured value  
Press to lock the current measurement value. Press again to unlock the value.
- 6). LCD backlight operation:  
Press momentarily to turn the LCD backlight on. Press momentarily again to turn the LCD backlight off.
- 7). Auto Shut Off & Disable Auto Shut Off:  
This meter is automatically shut off by default if no operation in 10 mins. Disable Auto Shut Off: press and hold for 3 seconds when the meter is off, and the screen will display "UOF".
- 8). Backlight Alarm:  
The backlight will flash when the measured value exceeds the set threshold (default alarm threshold is 100 dBA).

How to set the alarm threshold:

- a. Short press , then HOLD symbol will appear on the screen, long press for 3 seconds to enter setting mode.
- b. Press and to decrease or increase the alarm threshold value, press to save the alarm threshold value and return to the measuring mode.

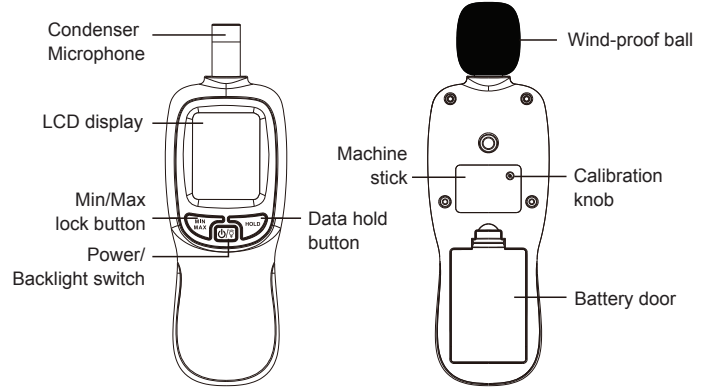
## INTRODUCTION

The Sound Level Meter is a small and portable device used for measuring noise levels in various environments such as factories, offices, transportation routes, and homes. It is suitable for noise engineering, quality control, health prevention, and environmental noise measurement.

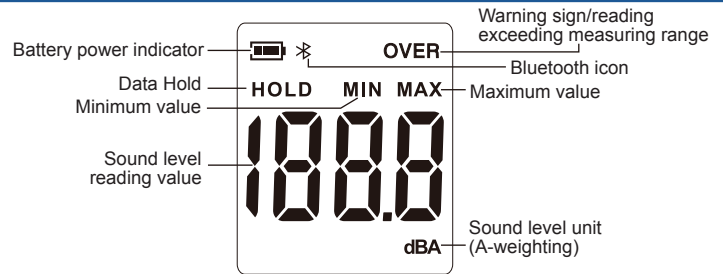
### Features:

- 1). Equipped with a mobile app that communicates with the meter via Bluetooth
- 2). The meter can record 20,000 groups data
- 3). Sound level measurement (dBA)
- 4). HOLD/ MIN / MAX function
- 5). LCD backlight function
- 6). Manual / auto shut-off
- 7). Backlight alarming

## NAME OF EACH COMPONENT



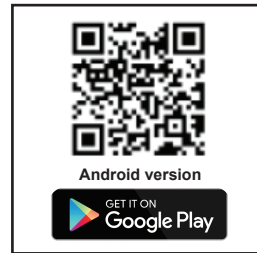
## LCD DISPLAY



## APP CONNECTION

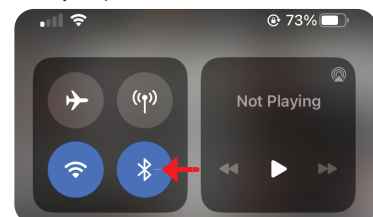
### 1. Install the App.

Search for "dB-Tester" on your App Store or Google Play, or scan the QR code below to download it.

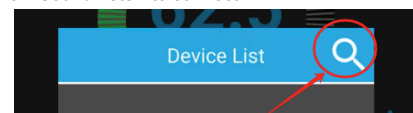


### 2. Connect the decibel meter to your smart phone.

- a. Power on the decibel meter, holding the button until the Bluetooth icon appears on the decibel meter.
- b. Enable Bluetooth on your phone and launch the "dB-Tester" app.

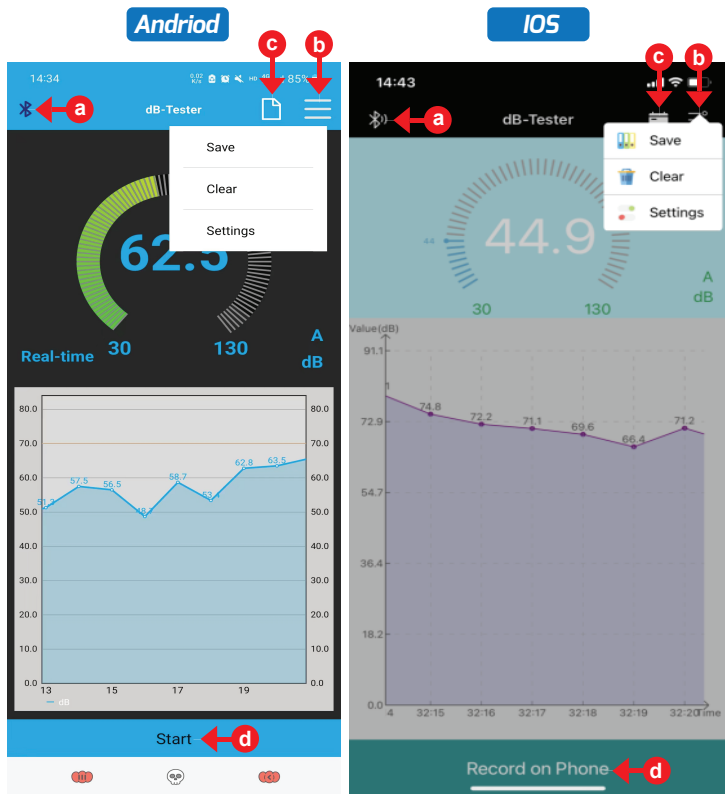


- c. Click the Bluetooth icon on the left side of the app and search for the bluetooth devices. Click "SoundMeter" to connect.



### 3. App Interface

#### 1). Main Interface

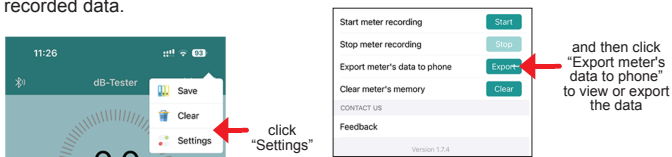


- a. : Click for searching bluetooth devices
- b. :  
Save: Save the real time data recording on the phone  
Clear: Clear the real time data on the phone  
Settings: Enter setting interfaces

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#### 2). Data logging within the meter

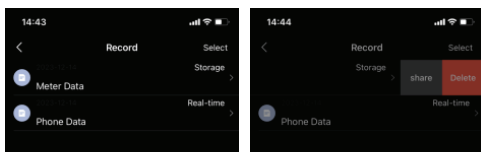
- a. Connect the decibel meter to the dB-tester app and configure the desired sampling interval in settings Section ②.
- b. After configuring settings in the app, disconnect the device. Then, press and hold the for 2 seconds to initiate recording. When recording begins, the "dBA" characters will flash on the screen.
- c. Once the recording is complete, hold the for about 2 seconds to stop recording  
**Note:** The meter automatically stops recording when it reaches its maximum capacity of 20,000 data points, and the flashing "dBA" characters cease.
- d. Reconnect the decibel meter to the dB-tester app to upload and export the meter's recorded data.



### 4. Data Exportation

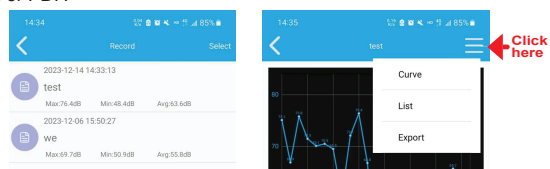
#### 1). IOS

- a. : Click this button to access the document interface.
- b. Use "Select" button for multiple deletions.
- c. Select the desired data set and then swipe left to share or delete.



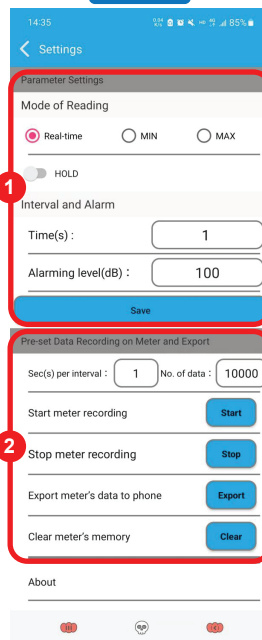
#### 2). Android

- a. : Click this button to access the document interface.
- b. Use "Select" button for multiple deletions.
- c. Click a desired data set to enter detailed data.
- d. Choose "Curve" or "List" for different data views; Click "Export" to export data in Excel or PDF.

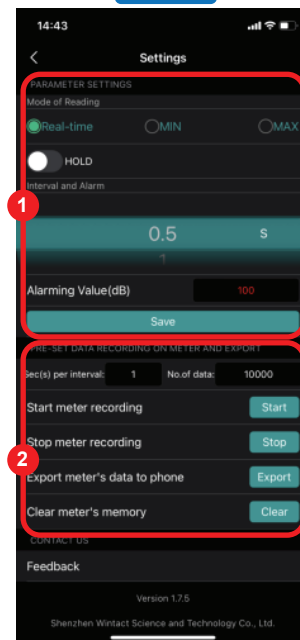


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### Android



### IOS



#### Setting Note:

- Section ① (Upper setting) adjusts recording setting in the APP
- Section ② (Lower setting) adjusts recording settings in the decibel meter
- c. / : Enter the document interface
- d. Start/Record on Phone: Start real-time data recording within the app

### 4. Data Recording

#### 1). Data logging within the app

- a. Connect the decibel meter to the dB-tester app.
- b. Adjust the desired sampling interval in the settings Section ① .
- c. Tap the "Start (Android) / Record on Phone (iOS)" button at the bottom of the app to start recording.
- d. Once the recording is complete, click the "Stop" button to cease the process.
- e. Access the settings by clicking the / , then click "Save" to store the recorded data points.

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### PRECAUTIONS

- 1). When the battery power is low, the low battery symbol may appear on the LCD, indicating that the batteries need to be replaced.
- 2). Avoid using the meter in high-temperature and high-humidity environments.
- 3). Remove the batteries if the device will not be used for an extended period to prevent electrolyte leakage and damage to the meter.
- 4). When measuring outdoor noise, attach the wind-resistant ball to the microphone head to prevent wind interference and other noise measurements.
- 5). Product Maintenance: Regularly wipe the meter with a dry cloth. Do not use solvents to clean the device.

### CALIBRATION METHOD

\*Please use 94dB@1KHz standard sound source

- 1). Carefully plug the microphone head into 1/2 inch hole of the standard sound source (94dB@1KHz).
- 2). Turn on the power switch of the standard sound source (94dB@1KHz) and use a straight screwdriver to adjust the potentiometer located at the back of the device, making the LCD display 94.0

The meter has been properly calibrated, and it is recommended to re-calibrate it once a year. Please note that you should not adjust the potentiometer without an audio source, as this instrument does not include a sound source calibrator.

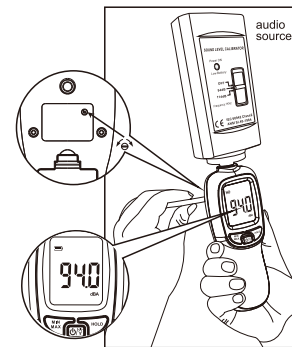


Diagram of audio source calibration

### TECHNICAL PARAMETERS

Measuring Range	30~130dB
Accuracy	±1.5dB
Frequency Response	31.5Hz~8KHz
Frequency Weighting Features	A-Weighting
Resolution	0.1dB
Working Temperature and Humidity	0~40°C, 10~80%RH
Storage Temperature and Humidity	-10~60°C, 0~90%RH
Power Source	3*1.5V AAA batteries
Weight	96.38g (Exclusion Battery)
External Dimension	56.1*177*36.03mm

#### Specific Declarations:

- 1). Our company shall not be held responsible for any consequences or liabilities arising from the use of the output generated by this product as direct or indirect evidence.
- 2). We reserve the right to modify the design and specifications of the product without prior notice.

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