

Competitive analysis

Question: How can valuable insights be presented to the end users?

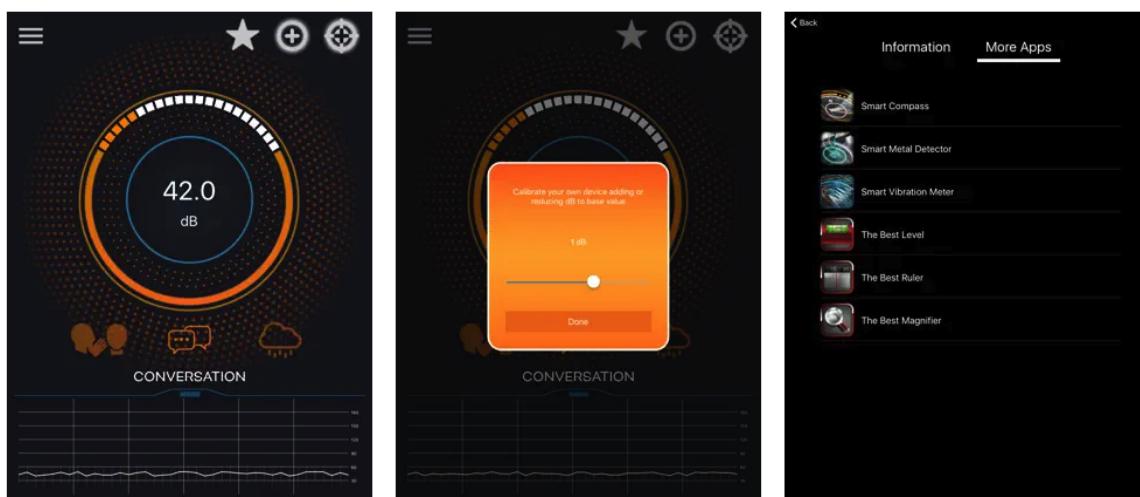
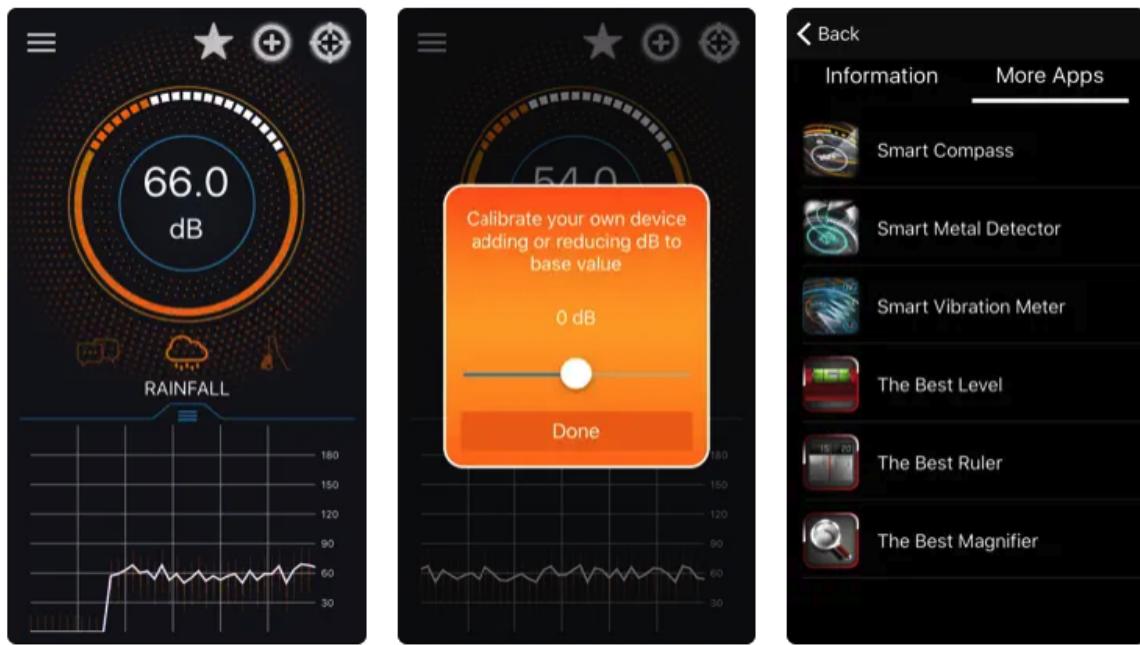
Method: Competitive analysis

Results

Sound Meter HQ

▼ Smart Sound Meter





Sound Meter is a user-friendly application that measures actual sound level in decibels (dB). Using the device's built-in microphone, the app provides a reference and has been calibrated against actual sound level meters. The maximum values are limited by hardware limitations, and very loud sounds (100+ dB) may not be recognized. This app is meant for entertainment purposes only and should not be used as a professional tool. Sound Meter includes a useful chart of common noise levels for reference, ranging from gunshots and fireworks (140 dB) to breathing (10 dB).

It has 2.6 out of 5 stars and it's rating is poor.

Ratings and Reviews

2.6 out of 5

7 Ratings



Armando cybc, 11/13/2017

Básica

Sería bueno que registrara el mínimo y el maximo, que se pudiera configurar manualmente para seleccionar qué tipo de sonidos quieres medir, como el de un dis [more](#)



Jmldesigns, 10/15/2016

Tried them all, this is worst

All over the place totally inaccurate. iPhone 7.
Adjusting a base value Db is not calibration.
Calibrating the mic input is.

In terms of UI the app has pure black background colour. There is live updating graph which shows the sound levels and the numeric values are displayed above it. One nice thing I liked a lot of is that depending on the Db values captured it gives the user an indication about the equivalent real life sound generator:

140 dB @ - gun shots, fireworks

130 dB - jackhammers, ambulance

120 dB - jet planes taking off

110 dB - concerts, car horns

100 dB - snowmobiles

90 dB - power tools

80 dB - Alarm clocks

70 dB - traffic, vacuums

60 dB - normal conversation

50 dB - moderate rainfall

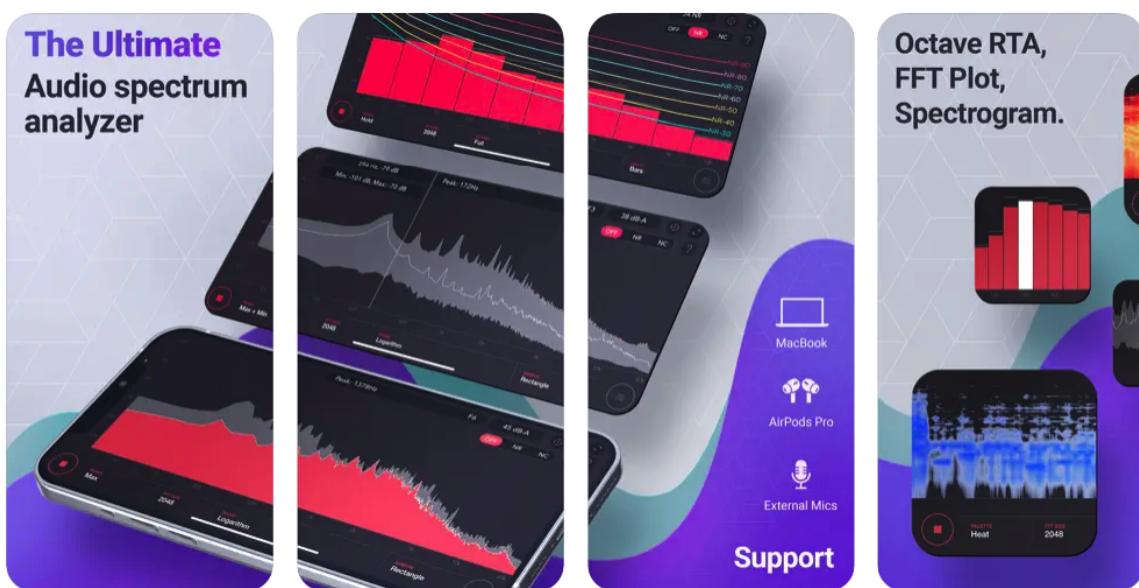
40 dB - quiet library

30 dB - whisper

20 dB - leaves rustling

10 dB – breathing

▼ Audio Spectrum Analyzer Pro



Audio Spectrum Analyzer is a powerful real-time audio analysis app that is both feature-rich and easy to use. The app includes a sound level meter (db meter a-weighted, noise rating, noise criterion), and highlights include an Octave Band Real Time Analyzer and FFT Plot (Fast Fourier Transform). The app supports linear and logarithm scales, up to 16384 FFT size, and a lot of available window functions. It also offers tracking for max value and Max and Min for any selected frequency with stunning graphics. The measurement accuracy is reliable thanks to pre-calibrated profiles for 3 device-integrated mics, and additional precision is available with integrated support and pre-calibrated profiles for AirPods and AirPods Pro. Safer measurements are possible with the AirPods Pro noise cancellation feature, and the app supports external microphones (wired or via Bluetooth). Noise Rating and Noise Criterion support round out the features

This app has 4.5 stars out of 5. People are happy using this and seems like it is doing the job.

Ratings and Reviews

4.5 out of 5

223 Ratings



jon in alabama, 10/23/2022

Very handy app

This is a very useful app for measuring sound. I can't tell if it can take additional calibration files for calibrated microphones, and I am not sure if it is bypassing the high and low [more](#)



Gray Cloud, 01/21/2023

Functional but flawed

I'm a little bitter that the previous iteration of Spectrum stopped working with iOS 16 and iPhone 14 models. I paid for both iPhone and iPad versions to use while mixing live [more](#)



ejmjrej, 03/15/2022

Oh so cool!

Best tool for a live performance yet! Actually see the difference live in real time! Displays are near perfect. Use the app to match your equipment. Every sound engineer needs [more](#)



cut2muz, 06/17/2021

Just...beautiful.

I'm just diving in to this sound calibration realm and was told by the dealer I got my gear from to use this app rather than the mic and Arcam tool. I'm a long time film and [video](#) [more](#)



Hank211, 08/30/2022

How do you record??? Missing button??

This says in the directions that you can record audio and there's a button to the right of the big red capture button. I don't see it in my app, nor is there any indication that if [you](#) [more](#)



Rate1-5, 04/16/2021

Awesome App!!

If you implemented a feature to reset peak max and min data logging rather than having to cycle through all the options or restart the app to reset the logging that would be [e](#) [more](#)



rcm85250, 06/17/2021

Very Buggy

I got this and was able to figure out frequency and DB point I was looking for - but - *all the links to get help don't work *the help page has info for another [more](#)



Greasy Willy, 07/07/2021

The best ...

This app works great... The best I've used and I have tried many. It would be fantastic if you could add audio bus compatibility or audio unit AUv3 then this could be inserted int [more](#)

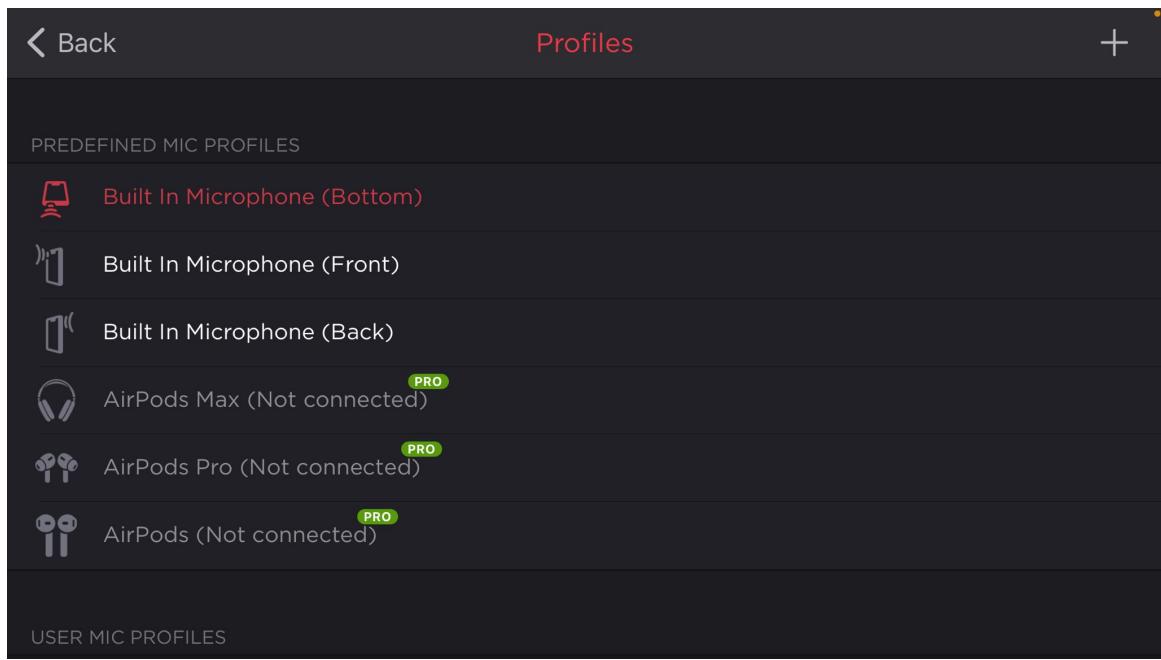


whyisthissodifficult23895, 03/19/2023

Does not work on macbook pro

It is an ipad app, but I missed that detail before trying... so FYI it will not work on a macbook as you cannot change any settings. The 2 star rating is because there is not [not](#) [more](#)

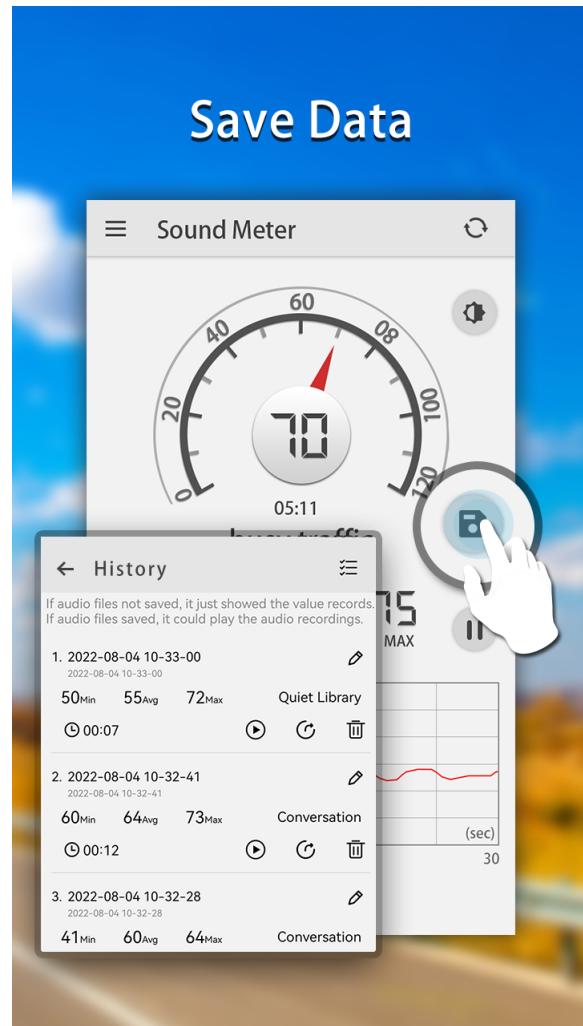


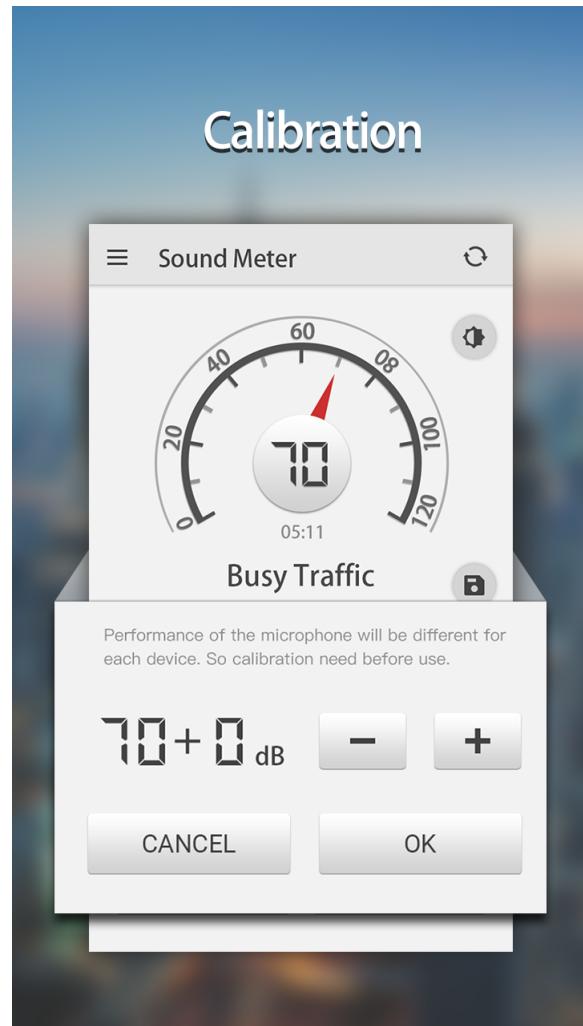


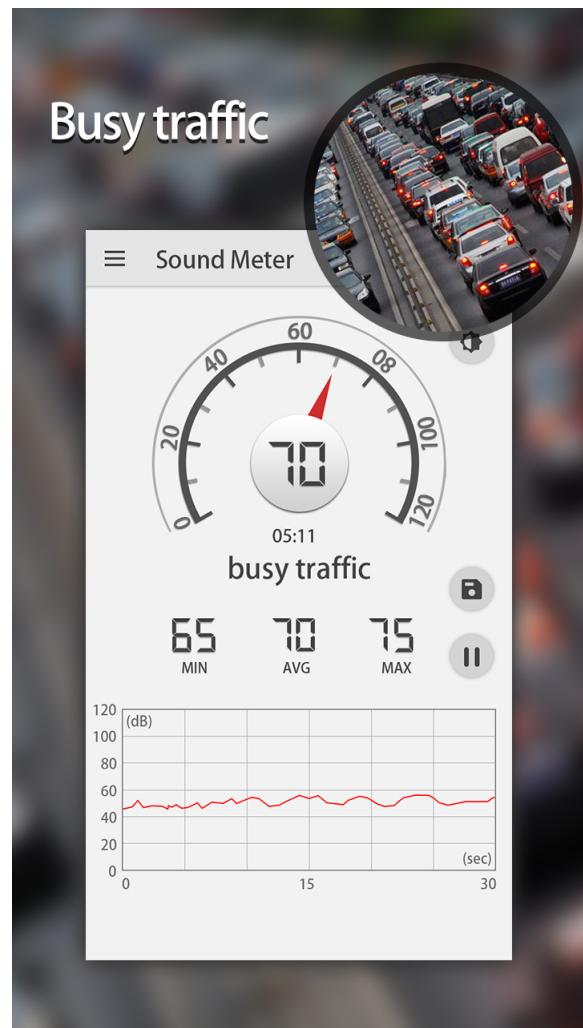
The app is used on landscape mode on a mobile device. There is an option to filter the sound based on Db-a , Db-C & Db-Z. Users can stop & start recordings. They are able connect their AirPods.

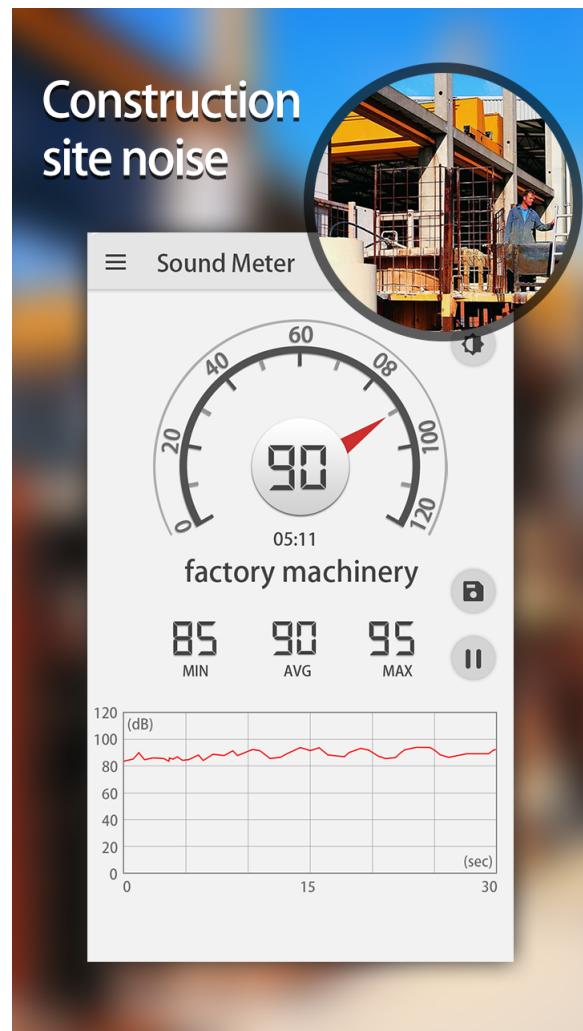
▼ Sound Meter & Noise Detector

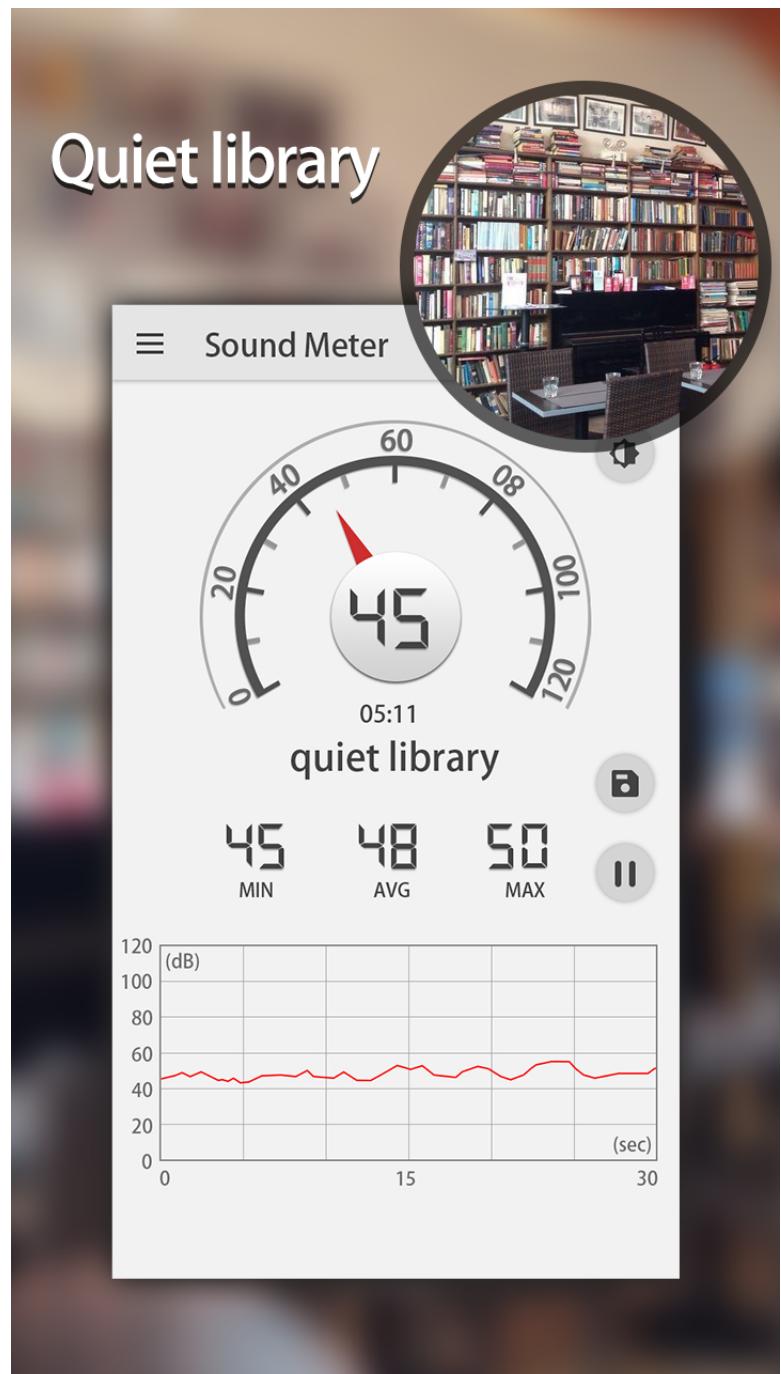


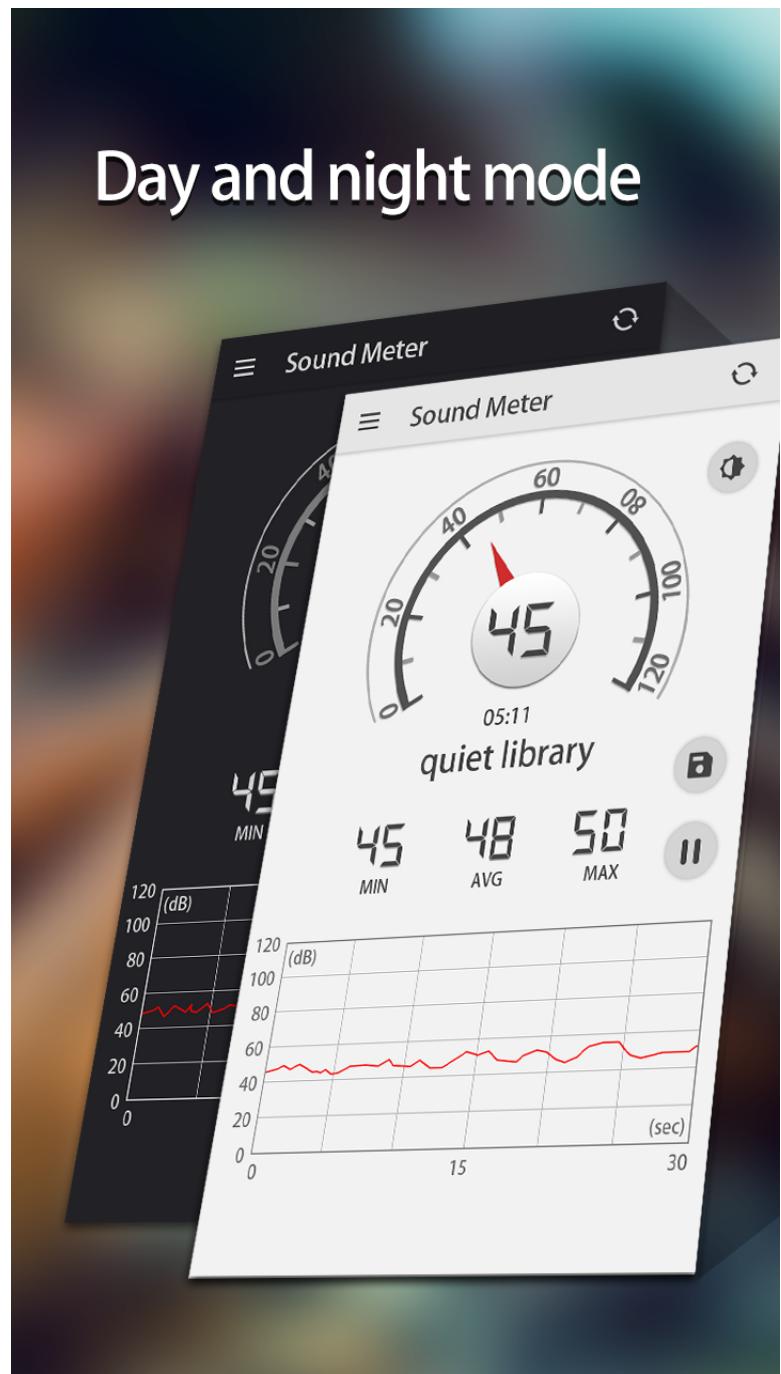












Ratings and reviews →

Ratings and reviews are verified ⓘ

4.7
★★★★★



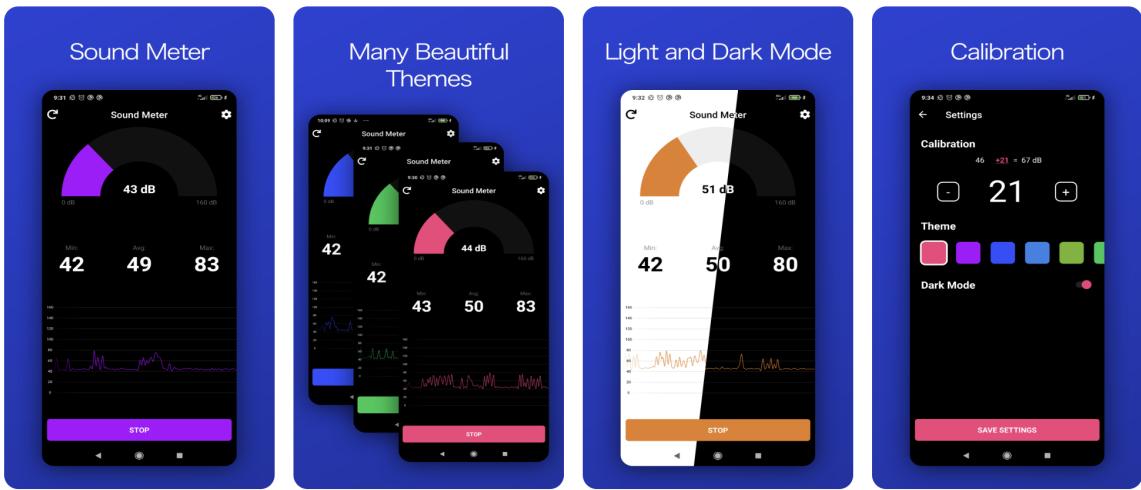
67.9K reviews

The sound meter app is a useful tool for daily life, providing accurate decibel data and helping to avoid noise pollution that can harm hearing and rest. It offers comprehensive noise data such as **minimal, average, and maximal decibels, real-time decibel readings, and levels of noise**. The app can be customised with features such as **saving audio files, setting decibel warnings, and applying black or white themes**. Other features include the **ability to review measurement histories and indicate the measuring duration, time, and status**. Calibration before use is recommended for precise data, and users are advised to save recordings to avoid data loss. If users have any questions, they can contact support by email.

▼ Sound Meter - Huawei Store



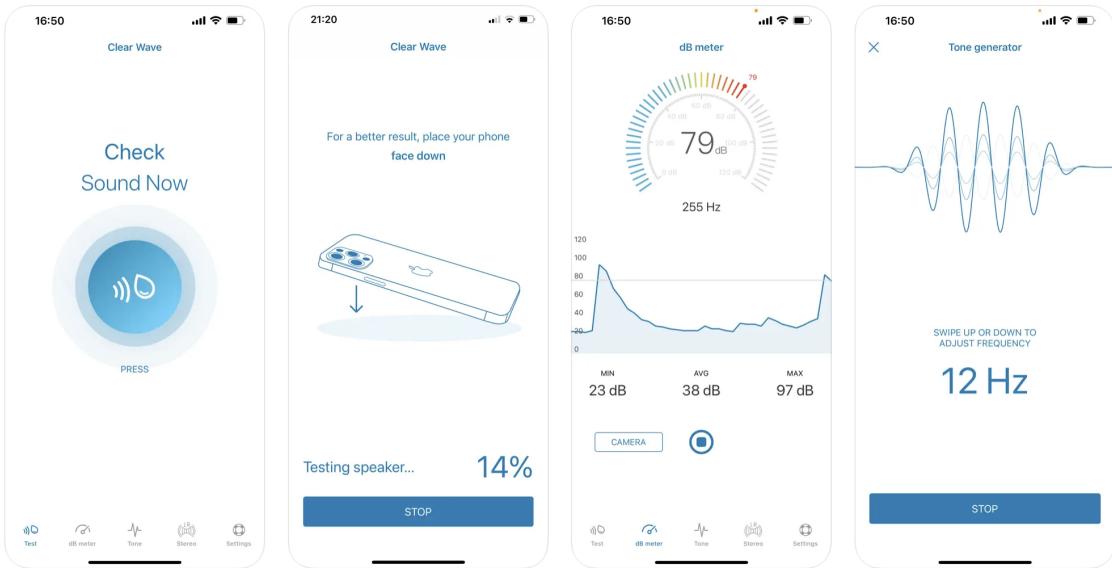
The Sound Meter app is designed to measure noise levels using your phone's microphone and display the results in decibels (dB). The app also calculates minimum, maximum and average values, and offers a pretty chart to visualise the dynamics. It has calibration capabilities for accurate measurement, **and offers light and dark modes with many beautiful colours to choose from**.



The app can be found on Huawei app store. A nice feature is giving the user to **customise app theme with nice colours**. The Db levels are displayed in the same way as in the other apps above with the difference that here the **UI is a lot more user-friendly**.

▼ Clear Wave





I found this app on the AppStore and I also downloaded it on my phone. The main functionality of this app is to check the phone speakers if they are functioning properly. It has a couple of screens but I was interested in observing the db meter screen on which the user can see visual representation of captured db & hertz values. **What I liked in this app was the combination of blue & white colours which really gave me a nice sense of calmness and relaxation.**

Conclusion

From the analysis I conducted, I can conclude that all the apps I found displayed the data to the user using the same principle. They all had a progress indicator showcasing the db levels and a chart below it. All apps also displayed the min , max and average db levels captured.

Recommendation

The Sound Meter app from the Huawei store is definitely an inspiration mainly because of the nice colour schemes provided from the app. That could be taken into account when designing our app. The Clear Wave app also may be an inspiration because of nice combination of blue & white colours.

Research sources

Clear Wave - Decibel meter, hz speaker test from

<https://apps.apple.com/us/app/clear-wave/id1557211189>

Smart Sound Meter App from <https://apps.apple.com/us/app/smart-sound-meter/id1122547394>

Sound Meter & Noise Detector from https://play.google.com/store/apps/details?id=coocent.app.tools.soundmeter.noisedetector&hl=en_US

Audio Spectrum Analyzer Pro from <https://apps.apple.com/us/app/audio-spectrum-analyzer-pro/id1152352806>

Sound Meter Huawei from <https://appgallery.huawei.com/app/C104314777>