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Introduction

The Car Vitalizer is for everybody who likes to listen to music in the car.

This app optimizes your car audio in a truly professional manner and turns it into an amazing sound system.

There are two levels of processing:

- Vitalizer sound enhancement
- Driver's Position

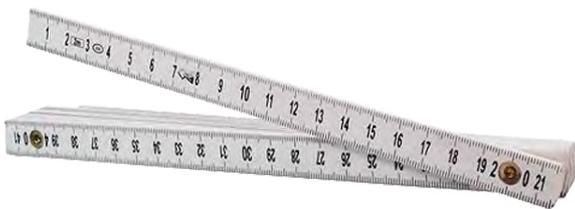
Driver's Position places you right into the music's sweet spot. The sound stage appears in full width rather than from the nearest speaker.

The patented Vitalizer sound optimization is a standard tool in professional recording studios and has been adopted and optimized for car audio.

Caution: Never operate the Car Vitalizer app while driving! We are pretty sure that music is not more important than health and life.

Step by step

1. For best results it is essential to measure speaker distances precisely with a ruler.



2. First check the settings in your car radio

- disengage all tone controls (Treble, Mid, Bass)
- set Fader to "Front"
- set Balance to "Center" or "0"



3. Tap the gear wheel in the preset bar.



4. Tap the right arrow to enter the Driver's Position screen.

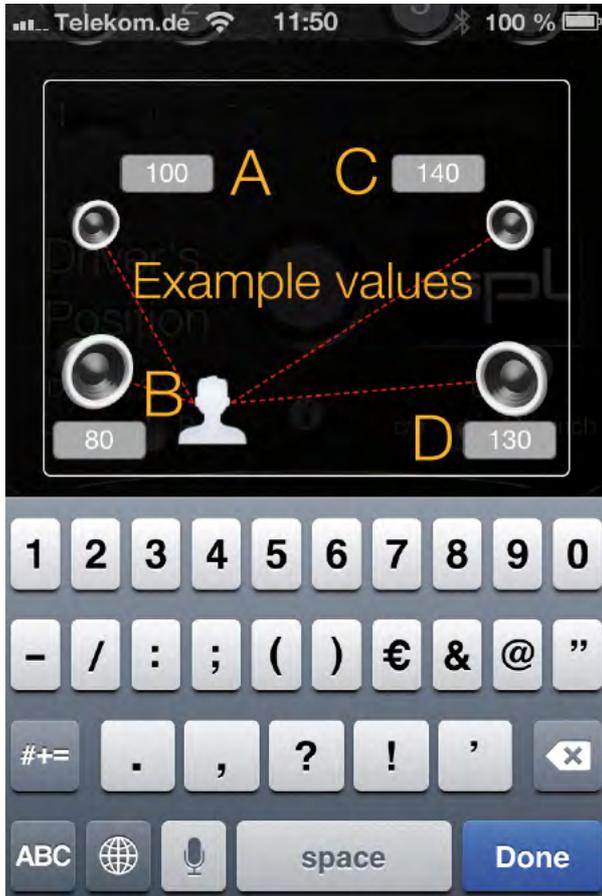
Steps 5 to 7 only have to be set up once per car!



5. Select left-hand drive or right-hand drive position.

6. Select cm or inch as measuring unit.

7. Tap an enter field or a speaker. An overlay screen will appear.



Take the driver's seat and use the ruler to measure the distances between:

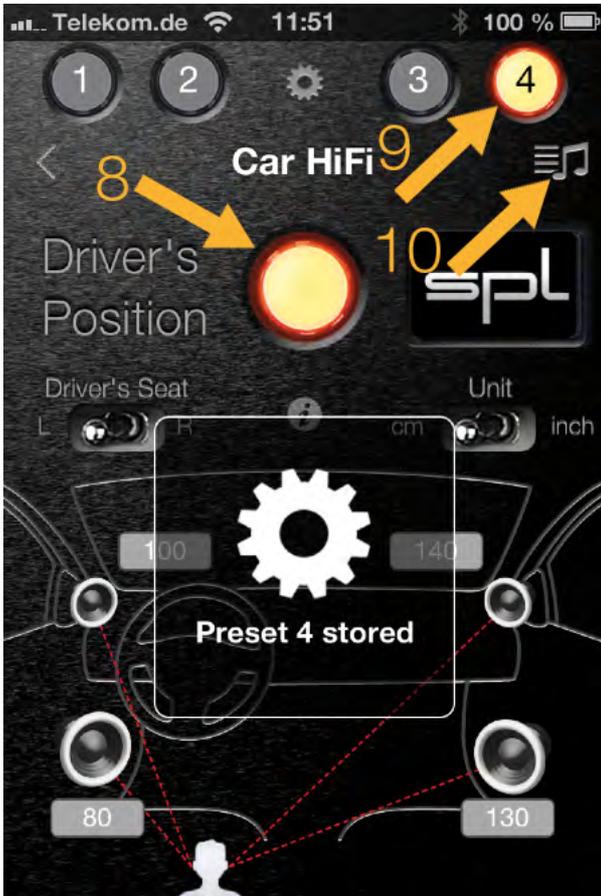
- A: left tweeter and your left ear
- B: left woofer and your left ear
- C: right tweeter and your right ear
- D: right woofer and your right ear

Tweeters are the small speakers in the dashboard, A-pillars or the rearview mirror triangle. Woofers are the bigger speakers in the doors.

If you have more than one pair of tweeters or woofers, only measure the distance to the closest. Measure from the ear to the center of the speaker.

In case only one pair of speakers is present in the front, do not enter anything for the non-existent speakers.

Enter the values into the respective enter fields and tap **Done**.

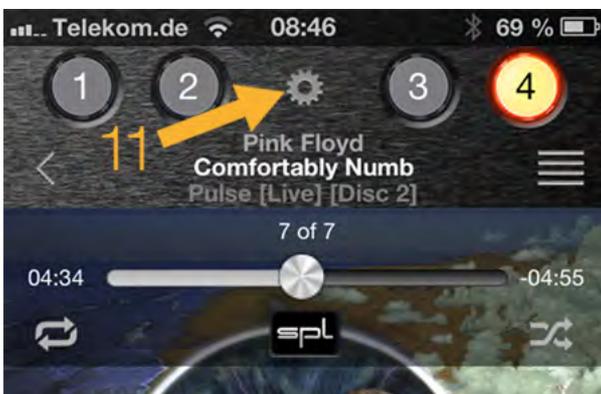


8. Engage the big On/Off button. It illuminates to show that Driver's Position is now active.

9. Store the Driver's Position settings by holding the Preset button (e.g. #4) for about 1 second. The device vibrates when storing was successful.

10. Play some music: tap the notes icon in the navigation bar to go to the player or playlists.

Play a title and tap the Preset button with the stored Driver's Position settings (e.g. #4). The button toggles between On (illuminated) and Off. When On, you are instantly placed into the acoustical sweet spot.



11. Leave Preset 4 On and go to the Vitalizer section by tapping the gear wheel.



12. The Vitalizer section offers three sound processings:

- True Loudness: Adds punch, clarity and transparency.
- Virtual Subwoofer: Adds a deep bass.
- Big Stage: widens the sound stage.

Move the faders and set them to your liking. Use the adjustments above as an initial starting point.

13. If you want to store a setting together with the Driver's Position, press and hold the Preset button (e.g. #4) for 1 second. A preset always stores all Vitalizer and Driver's Position settings.

Car audio connections ^

Using Bluetooth

The most comfortable connection is via Bluetooth given your car supports it. No cables are needed, the device connects automatically and you can control the audio player (Stop/Play, Next, Previous) from your car.

Engage Bluetooth in your device and follow the instructions of your car to select your device as media player. In older cars Bluetooth may only allow the use as hands-free telephone. In that case or if your car does not provide Bluetooth, use the alternative connections.

Make sure the Car Vitalizer was the last app to play a song. That way, the Car Vitalizer player has top priority and will be launched when a Bluetooth connection is established. If the Car Vitalizer app is in background or closed, the standard iPod player will be launched.

Using the Dock

Your iPhone or iPod touch can also be connected to the car using the dock connector. Use the docking cable with USB connector (charging cable).

Using the Aux In connector

For connection to the Aux In jack you need a cable with 3.5mm stereo jack plugs at both ends. Connect the phones output of your iPhones or iPod touch with the Aux In jack of your car or car radio unit.

Tip: Set the iPhone or iPod touch to maximum volume and, if existent, set the Aux In Input Gain of your car to max to avoid any level drop.

Good to know

About Driver's Position

Take a look at the speaker placement in your car. Usually you have speakers to the left and right in the dashboard, in the A-pillar or in the rearview mirror triangle. We will refer to all of these speakers as tweeters. There are also speakers in the doors which we refer to as woofers. Speakers behind you can be ignored, the sound is always clearer and more defined when delivered from the front. Remember, this is how the music is produced. Using multiple speakers all around in the car results in many overlapping frequencies which too often degrades the audio performance.

When looking at the speakers you easily notice that the distances from your position to the woofers and tweeters are not the same. But they should be the same in order to be in the acoustical center and to enjoy the stereo image. This position is known as the 'sweet spot'.

The designated control in cars to increase the level of distant speakers is the Balance control. But the problem of sound waves not reaching your ears at the same time cannot be solved with varying levels. It is a matter of time. In acoustics, there is a "Law of the first wave front" – first waves are heard first, so closest speakers are heard first.

By measuring and entering the exact distances to each speaker, all speakers are matched upon their the distances. You are immediately placed in the sweet spot and enjoy the stereo image as it was intended.

About True Loudness

The name True Loudness implies an improvement over classic loudness functions. Classic loudness only boosts bass frequencies because human hearing is less sensitive to bass at lower listening levels than to mids.

True Loudness is going three steps further. Firstly high frequencies are integrated into the process. Secondly harmonical processing creates a pleasant and fresh sounding top-end. And thirdly transparency is improved by "sorting" frequencies by their levels. Louder frequencies are

perceived at a slightly different time than low level frequencies. This achieves a de-masking effect, revealing an enormous amount of detail and depth. This processing is patented by SPL, and True Loudness® as well as Vitalizer® are registered trademarks.

About Virtual Subwoofer

Virtual Subwoofer adds super-deep, subwoofer-like bass. This sound can be reproduced by most speakers with a diameter bigger than 10cm or 4". Please note that this process does not add artificial, sub harmonic frequencies. For a natural result, virtual subwoofer only processes parts of the original content.

About Big Stage

Big Stage widens the sound stage. In contrast to common techniques, Big Stage keeps a focused and precise center sound image. No room ambience or reverb or is added, all additional ambience that you hear is part of the recording and unleashed by moving the fader from left to right.

About More Headroom

Headroom specifies the level difference between the music and the maximum digital level of 0 dBfs (Decibel full scale). Most modern music is produced in a way to leave almost no headroom in order to be louder than other songs. This is a dubious procedure (also known as "loudness war") as it leaves only a small dynamic range for the music. On the other hand, headroom is needed to process audio signals. If you want to apply intensive processing, go to Settings/Car Vitalizer and engage the **"More Headroom"** switch. Now you can apply intensive processing without audible side effects. As a result of the added headroom the overall output level is lower – the best counter measure is to turn up the car's audio volume a little.

iCloud titles

iCloud titles are displayed with a cloud icon, but they will not be played. You will be notified which iCloud title was skipped during playback. You can, of course, download the title with the iPod player. The title is immediately available after downloading for playback in the Car Vitalizer.

Protected titles

Protected titles cannot be played. You will be notified which title has been skipped during playback. Usually these titles are in the m4p format where the „p“ stands for "protected" (e.g. DRM – digital rights management). DRM prohibits any form of processing or modification. In order to play these titles with the Car Vitalizer you can change the format to aac, m4a or mp3 in iTunes.

Genius lists

Genius lists are not supported.

Titles with video content

Titles containing video content cannot be played and will be skipped.

Cover flow

Cover flow is not supported.

Settings



More Headroom

You find the "More Headroom" switch under Settings > Car Vitalizer. Refer to "Good to know/Headroom" for more information about "headroom". "More Headroom" is activated by default and we recommend to keep it activated because it gives better sounding results. Compared with the iPod player the playback level is about 4dB lower. This 4dB range is used for processing - just like in the iPod player when an EQ is engaged. When you deactivate the "More Headroom" switch, the Car Vitalizer player will be exactly as loud as the iPod player, but you may then notice audible distortions when processing is engaged.

Tips and tricks



Turn off notification alerts

In order to not be disturbed by notification alerts, turn off as many notifications as possible in the settings of your device.

Gesture control of the Car Vitalizer players

In the player screen we introduce four gestures to control the player more easily: 1. Swipe upwards over the cover to start playback. 2. Swipe downwards to stop playback. 3. Swipe to the right to go to the next title. 4. Swipe to the left to go to the previous title.

Using Virtual Subwoofer only

If you want to use the Virtual Subwoofer only, it will still be better to fade in a tiny bit of True Loudness. Both stages work together and Virtual Subwoofer is less effective when True Loudness is off.

Using Presets

Example 1:

- Preset 1 “Me, Myself and I”: Vitalizer with Driver's Position
- Preset 2 “Sound for all”: Vitalizer without Driver's Position
- Preset 3 “Me, Myself and I – 2. car”: Vitalizer with Driver's Position my partner's or the company car.
- Preset 4 “Sound for all – 2. car”: Vitalizer without Driver's Position my partner's or the company car.

Example 2:

- Preset 1 “Modern for me”: Vitalizer with Driver's Position for modern (loud) music
- Preset 2 “Modern for all”: Vitalizer without Driver's Position for modern (loud) music
- Preset 3 “Oldies for me”: Vitalizer with Driver's Position for oldies
- Preset 4 “Oldies for all”: Vitalizer without Driver's Position for oldies

Example 3:

- Preset 1 “Modern”: Vitalizer with Driver's Position for modern (loud) music
- Preset 2 “Oldies”: Vitalizer with Driver's Position for oldies
- Preset 3 “Audio book”: Vitalizer with Driver's Position for audio books
- Preset 4 “Classical”: Vitalizer with Driver's Position for classical music