

Steve's Tiny Radial project



Serious omnidirectional desktop speakers from www.decware.com

Introduction

Tiny Radials are a miniaturized version of the Decware Radial Loudspeaker design.

The Radial Loudspeaker design has the most 3D soundstage of any loudspeaker design because it's omnidirectional. That means you don't have to be in the listening chair to experience a spacious sound stage. It also means you don't have to line your walls with quadratic diffusers to achieve this kind of imaging as you would with conventional loudspeakers.

The idea behind the Tiny Radial Project was to create a miniature version of the radial soundstage we get in the listening room—on your desktop. This deep soundstage comes from a laid-back omni frequency balance that is anything but in your face. After all when you have small speakers setting only a foot or two from your face (such as would happen at your computer desktop) the last thing you want is an in-your-face sound!

Since these are a near-field design they are not intended to be played loud when listened to from any distance beyond 1 meter. On your desktop they would in fact sound loud, but not from across the room. That is in fact the beauty of these speakers. If you pair them with a good amplifier that has a few good class-A watts, you can listen at a volume that you would perceive to be similar to when you are in your listening room, yet those around you are not bothered by it.

Tiny Radials bring the listening room to your desktop.

- Steve Deckert / DECWARE

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DESCRIPTION

These are full-range crossoverless single-driver radial loudspeakers featuring a 1.5 inch driver. They have response from 75Hz to 20kHz. They require a 2 to 5 watt amplifier that can drive a 4 ohm load. Max power handling when run full-range is around 5 watts.

SPEAKER PLACEMENT

Tiny Radials are miniature speakers designed to re-create your listening room on a small desktop. That means everything including placement is scaled down. Ideal placement is usually 1 to 3 feet apart and 6 to 16 inches from the front wall behind the speakers. (NOTE: if using a sub these recommendations can be greatly relaxed) The speaker placement above will give the best bass response.

TOE-IN

How you angle the speakers will have zero effect on the sound.

BASS PERFORMANCE

For a 1.5 inch driver the bass performance is fairly stunning. That said, it will never be accused of being a bass heavy speaker. If you play bass heavy music the speakers will sound full like a normal speaker in your listening room. This is assuming you use good class A amplification. Well recorded Jazz, Blues, or really any kind of music will sound somewhat warm with a respectable fullness. Poorly mixed music on an inexpensive amplifier can sound very lean on these speakers.

A good way to relax the prerequisites required to make these speakers have impressive bass for their size is to add a TINY SUB to the mix. When using the Tiny SUB or any powered subwoofer with Tiny Radials it is best to experiment with the crossover frequency setting until you get the sound you like. Typical settings are between 80 Hz and 120 Hz.

SERVICE

If you break one, we can fix it. Just return it with the RA form on our website (www.decware.com) located under the service tab on the sidebar.