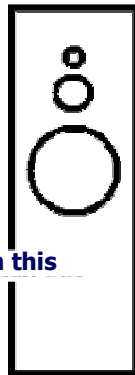


Full Range vs. 3 Way



Full Range Speaker

This sounds better



3 Way Speaker

than this

Note: This is true for a single Full range horn vs. multiple horns.



This sounds better

than this

After years of designing many 2 way and 3 way speaker systems I could never achieve the live realism and 3D imaging produced by a good full range speaker system. Like headphones produce a 3D image in your head , a full range produces a 3D image in front of you. I spent 25 years engineering passive crossovers for many manufactures and I finally came to the conclusion that the best crossover is no crossover. The crossover is a necessary evil when designing a 2 way or 3 way speaker system. It divides the frequencies to the proper speaker component but at the cost of putting the speakers out of phase with one another. This destroys the speaker systems ability to produce good stereo imaging.

A full range speaker system has bass , midrange , and highs all in phase with one another. In order to achieve great stereo imaging the sound must come from a single point as much as possible. In a 2 way or 3 way speaker system the sound is coming from multiple locations. This destroys the speakers ability to create a stereo image. More in not better. Once you have heard a 3D stereo image there is no going back to a multi-way system.