
Subject: Re: What about Oval shaped drivers (like 4"x6") for arrays?

Posted by [Marlboro](#) on Mon, 14 Sep 2009 18:52:35 GMT

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OK.... all joking aside. I've never quite seen a set up like yours with all those woofers spread all over the place, and with the two MTM's on the side and the MtM center speaker.

I'm having trouble figuring out why you need a line array in the setting. You have not shared any information about why you believe that you need one, what the deficiencies of your current set up are, or anything that would help us line array fanatics to help you with your problem, if you actually have one.

Line arrays as defined by Griffin (and you've obviously read his paper) have several significant characteristics that your current system may not have: 1) listening in the nearfield, 2) very very low distortion due to large number of speakers covering specific frequency ranges, 3) large sound stage due to coupling of floor with ceiling, 4) large dynamic range due to #2 again.

While you have a lot of available sound, you don't have the amazing listening characteristics of a line array. Your system looks more like something that you would have at a rock concert where the players want to be able to blast into the audience, or what looks obvious for you, a massive home theater display where you are possibly more interested in action movies with lots of explosions, and less interested in playing Schubert's Unfinished Symphony. This is not meant in a demeaning way, only that a line array may not be of any use to you for your large home theater set-up. Line Arrays are not for everybody, and that has nothing to do with building or expense: just that the specific characteristics of them are not essential to everyone's kind of music. Listening to lots of heavy metal requires lots of bass, but not an incredibly distortion-less experience since the music itself is high in distortion.

For me to help, I need way more specifics as to what you want to do, what you need, what you don't need. You may not need a line array, or you may not be able to put one together due to your room or desire to keep all the rest of the system you already have. One of the problems I already see is that knowing where in your room you would put a line array. There isn't enough room unless you pull out everything you currently have redesign the whole system and actually make the screen a bit smaller so you have more room on the sides. Having speakers at all different distances from the listener can play havoc with the sound hearing. Do you really need all of those woofers? Can you balance the woofer sensitivity with the tweeters that you have available. Line arrays only work when they are built from the ground up so that the whole system integrates itself completely. I can't see for the life of me how you could integrate a line of 4 x 6 mid ranges in your current conglomerations of different speaker systems and make it sound integrated..... unless you are not particularly interested in playing music, but only want to produce voice and environmental sound in movies.

You have to help me with this.

Marlboro
