
Subject: Re: And now for something a bit more realistic
Posted by [Anonymous](#) on Mon, 10 Jul 2006 16:11:16 GMT
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>>I can't help but wonder if there is more magic to be squeezed out>>of a line array that has the primary drivers working from under>>300Hz up past 4kHz, Lets take a few steps back. The speaker builder may crossover their mid/tweeter in the 3kHz - 5kHz range because they usually skimp on the tweeters when planning a design. Very few that make DIY line arrays use the high end tweeters, instead they use cheaper tweeters and cross them over higher because they can't hang with a lower crossover point. To squeeze out more magic: Find an exceptional tweeter that can be taken down to 1500Hz - 2000Hz {as Jim said} and the system not only will integrate well with almost any midwoofer, but the perception of better sound and imaging is had. By taking the full range driver up to 4kHz, then crossing to a tweeter, this won't give you that magic. Sure you can make it work, but it's not as sweet as the other choice. I can take an exceptional ribbon or planar tweeter and make a full array with them and use \$1 midwoofers and you will be blown away by how good the sound is. I can't say the same if the situation is reversed. Suppose you did some tests and realized this is the path that indeed works well. If your tweeters need to operate at 1500-2000Hz to perceive the 'magic', then that implies your midwoofer will operate up to 1500Hz - 2000Hz in which case, it's easy to find midwoofers that can do this job easily with great SQ, and the full range driver isn't really needed.
