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Subject: Re: DSP xover and EQ with line arrays?

Posted by [denverdoc](#) on Sun, 28 Nov 2004 03:13:46 GMT

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Jim, Thanks for the input to my query; you are on target when you suggest what I had in line was higher quality drivers, tho as an aside, the DEQX may have the capability to cover all but the worst warts in a line array of say aura drivers, so long as the warts were relatively consistent--but I digress; I was looking at the seas drivers but there has been a lot of fanfare over the about to be released adire 6.5 and 4 inch drivers. Now a dozen a-c G1's would cost me a cool 5k or so--while this is meant to be ambitious, it is after all my first real speaker project, having built subs and some custom x-overs is all. Would be sweet, no doubt say a dozen seas 15-001'2 and half dozen a-c's per side (christ what would the efficiency of the tweet line be--around 110db/2.83v?). If using active xovers, then could tapering be achieved thru insertion of passive series resistors w/o messing things up too much otherwise? The other mandate of my design besides having the usual virtues of -3db/distance doubling, low distortion, huge dynamics, is not to store a single erg of energy in the enclosure/baffle--hence the drivers will all be screwed/epoxied to an I-beam with the super light and ultra stiff carbon fiber baffle barely making contact with the drivers. While I am uncertain this is a one way ticket to audio nirvana, I believe the "speed" of ribbons/esl speakers is tied to the absence of significant energy storage, and the "slowness" of dynamic woofers in such a context is not so much from poor transient response per se but sstored energy invariably muddying up things. May also relate to the discontinuity from an array or long ribbon dipole to the monopolar bass radiation pattern. Anyway these are some of the questions I hope to at least shed a little light on!! I'll certainly check out Ricks web site; God, is this a great hobby or what--left brain absolutely subjugated to meets the demands of the right sided mistress!

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