
Subject: Re: Two Inexpensive Near field Line Array Systems

Posted by [Marlboro](#) on Wed, 21 Feb 2007 17:26:41 GMT

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Yes, Wayne, one can really cut back on the cost if one DOES NOT use a line of tweeters. If one uses a line then one is pretty much limited to the 3/4 inch Dayton Neo's, and one has to cut the flanges so that vertical comb filter distortion doesn't kick in any earlier than about 14000hz or so. This means that you need a line of about 34 of them to make the meter or so required to cover the whole normal listening area from seated to standing. When you order 68 of them from PE you can get the price down to about \$3.50 each, but that is still \$238 additional almost 10x the cost of a single Vifa tweeter. And if you use Dayton Neo's then you can't set the crossover below 2600hz, which means that you can't use midranges any bigger than about 4.5 inches to avoid horizontal comb filter distortion, which means that you will need maybe 30 of the mid ranges. It all links together. Its not for nothing that most people use planars or ribbons for the tweeter line. In doing so they can use larger midranges, and cross lower. Marlboro
