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Subject: Re: Array Me in the Right Direction  
Posted by [Cuppa Joe](#) on Thu, 20 Oct 2005 00:51:21 GMT  
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I've also wondered in the past how the short-throw horns in some line array designs could get the HF to the back of a concert venue. However, for the most part, I have nothing against line arrays, as they have their place in pro audio. I was mostly curious about why the horizontal, arced point-source systems had mostly disappeared. Based upon the recommended reading and responses, I've arrived at two conclusions about horizontal VS line arrays: 1) You can't get away from imperfections in any arrayable system (such as lobing error and comb-filtering, etc.), but most are less obvious in vertical line arrays. So, you have to be more careful about the design compromises you choose to tolerate for the horizontal. 2) Since horizontal tight-pack systems aren't truly "point-source" because they can't actually emit from a common locus, your choice of components and their arrangement becomes more critical than with vertical arrangements. It seems to me that redesigning the horizontal tight-pack array of olde is more of a challenge than it is an impossibility!

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