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Subject: Re: Hypothetical Question About Horns In Line Arrays

Posted by [Bill Fitzmaurice](#) on Mon, 11 Jul 2005 19:47:16 GMT

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It is the matter of the frame span that counts with horns, not the center to center spacing. A maximum of 10% frame to mouth ratio is considered adequate in most cases. You'll get the best result by trimming away all the flange so that there is one continuous horn mouth on the vertical plane. Much has to do with the listening distance; in the case of PA one doesn't have to be so fussy about the frame widths as whatever lobing might occur dissipates once you get far enough from the array, but for hi-fi in the average size listening room you've got to be more judicious. Sensitivity problems aren't that tough to get around, you just wire the tweets to a higher impedance to balance it out. In the case of piezos they have a lower sensitivity to begin with, and being high impedance with capacitive loading anyway you don't have to be too concerned about what series wiring will do to the impedance.

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