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Subject: Short Line Array

Posted by [DVD](#) on Mon, 14 Feb 2005 19:41:47 GMT

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Is It possible to build a short line Array and still get a reasonable vertical dispersion? What is the vertical dispersion characteristics of a line array vs line length? Is it possible to use four 6.5 inch drivers and get approximately 3 to 4 foot dispersion window at 12+ feet? Based on Dr. Griffin's paper I think it should be possible to do this although it will be in far field. According to Dr. Griffin's paper, four 6.5 driver should go far field at approx 6 ft @ 2KHz and then the beam should start to diverge. two 5 inch long ribbons on 6 inch centers, with acceptable vertical dispersion angle of 10 deg. included, should provide an acceptable vert. window at 12+ ft. What have I done wrong? Four higher quality mid/bass drivers and two ribbon tweeter might be a little less expensive and easier to build than a 10 driver 6ft array. Granted it would be Farfield, but it's all about tradeoffs is it not?

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