Subject: Re: Array Length/diminishing return
Posted by Jim Griffin on Wed, 19 Jan 2005 14:55:38 GMT
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DSM,You don't state what your basic concern might be in extending the length of a line. The pat answer is that you should have a line length that places your listening position well within a near field. A floor to ceiling line length would place the entire room in the near field. At low frequencies you should assume coupling to the floor and ceiling surfaces as the line will image from this planes at their lower frequency limit (see my white paper for discussion and a diagram). In theory you would have a lower freqeuncy limit but a floor to celing line array would work as a line source down to the bass limitations of the individual driver. That means don't expect 20-30 Hz bass coverage from a driver that cuts off around 100 Hz even though you have an array that has 100's of these drivers. Bottom line: You should read my white paper as it covers the line length issue in detail. Jim
Near Field Line Array White Paper