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Subject: 3pi/4pi plans? Horn lens question  
Posted by [JakeB](#) on Fri, 31 Oct 2008 07:57:18 GMT  
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I am interested in the 3pi and 4pi plans I found the audiokarma econowave project, and located your site after reading. It seems your designs are well tested and driver mated, which I value highly. First, I bought the JBL horn lenses for the econowave project... can I use those? Second, I can't afford JBL's right now, so, how big of an improvement is the Omega 15 over the Delta 12LF? It's double the volume, and double the price... double the performance? or not. Plans would be great. Any help deciding? Jake

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Subject: You've got mail!  
Posted by [Wayne Parham](#) on Fri, 31 Oct 2008 16:28:02 GMT  
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radiused throat with no sharp bends anywhere. I think it's a very good horn for this application, acoustically smooth both in response and directivity. We also have a wood horn that I designed

models. It is very attractive, so most people mount it externally sitting on a cradle on top of the speaker. Of course, the driver-to-driver spacing must be maintained when doing this, in order to keep the angular coverage right. The JBL PT-K95MH waveguide might well work with my designs, since it has a 90x50 coverage pattern and uniform directivity. However, I have not tested it, and some crossover changes might be necessary in order to set the null angles outside the pattern, as they should be. That's one of my main design goals, in addition to matching horizontal directivity at crossover, I prefer to match the vertical null angles to the vertical pattern of the HF horn. This makes the most natural sound, limiting sound radiated at large vertical angles outside the nulls. In effect, the nulls serve to punctuate the pattern.

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Subject: 3pi plans  
Posted by [JakeB](#) on Fri, 31 Oct 2008 16:59:59 GMT  
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Could I please get the 3pi plans. Thanks

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Subject: Re: 3pi plans  
Posted by [Wayne Parham](#) on Fri, 31 Oct 2008 17:18:40 GMT

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Check your mail - I already sent the plans. If they haven't arrived, let me know and I'll resend.

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