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Subject: Re: Unity horns???? what is a Pi Speaker horn?

Posted by [Wayne Parham](#) on Sun, 24 Apr 2005 01:28:36 GMT

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If you are interested in Unity horns, you might bring them up on the High Efficiency forum because I do not use them. The Unity device is a horn that Tom Danley came up with that has midrange and tweeters sharing the same flare. It's an interesting concept, but since several drivers fire into a common chamber, their interaction is highly coupled and phasing in the overlap range is extremely critical. It's a delicate balancing act, tenable at low frequencies but more unlikely as the crossover frequency goes up. In its best trim, everything is right on the edge and any shifts in operational parameters due to component tolerance, age or power heat cycles can throw it off. The midrange drivers not being loaded at the apex necessarily cause more internal reflections

some reading here, because there is a lot of information. After you have looked around a while, I'd be happy to respond to any specific questions you have.

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