

---

Subject: Re: Pattern control and mouth size

Posted by [Cuppa Joe](#) on Sun, 11 Feb 2007 05:33:48 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Oh yeah, I do remember the Renkus-Heinz CoEntrant, and how it fascinated me at the time! It reminds me of a design I encountered at [www.burton-manor.co.uk/Audio/HLCA.htm](http://www.burton-manor.co.uk/Audio/HLCA.htm). Fun and interesting stuff! Even the 1/3 WL spacing center-to-center is a tall order given the mouth sizes of most midbass/midrange horns with a single driver (assuming they're being tightly arrayed). With baffle-mounted cones in a vertical array, I'd need a stack of differing diameters to cover the ranges up to the typical 1" horn/driver combo. This challenges one of my goals for each design: a 3-way active system (triamp with active x-over/processing). As my design ideas are aimed toward live sound reinforcement, I will likely see how often and to what extent I can "cheat" the C-to-C coupling guidelines, with as little compromise to sound quality as possible. In many live applications, the listeners are farther away from the audio source than with a home system, meaning more room to squirm for the live audio designer!

---