

---

Subject: Re: theater six?

Posted by [Wayne Parham](#) on Wed, 21 Mar 2007 01:32:38 GMT

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

---

You could probably do something like that, sure. It would probably sound pretty good. The midhorn I designed probably wouldn't work well with the Alpha 8MR, but you could change the throat and flare a little bit and come up with a very similar design. If you were able to get response up to 3.5kHz, you could probably crossover to something like the APT series tweeters on top. On the lower end, I expect you could get response down to 400Hz from an Alpha 8MR midhorn. Personally, I like to crossover a little bit lower than that. Lots of three-way loudspeakers have crossover between 400Hz and 600Hz. It's kind of a popular place to put a crossover point, I suspect probably because it's easier to get a smaller midrange to work there. But that is right in the middle of the vocal range and I don't like to crossover between 200Hz and 2kHz if I can help it. I generally try to design my speakers so that as much as possible of the 200Hz-2kHz band is covered by one driver. Having lower crossover allows the vocal range to be covered by one driver. Woofer-to-mid distances can be greater and summing is still good. Midbass room modes can be smoothed by having sound from both the midhorn and the bass bin. So having a lower crossover point for the midrange seems ideal to me.

---