Subject: Re: Pete's Home Theater Build Posted by Wayne Parham on Fri, 07 Jun 2013 20:04:54 GMT View Forum Message <> Reply to Message

That's an excellent question, one that has been posed here many times. I think that the method you propose will work well, and there are plenty that have done it that way. In fact, if I did not

cornerhorns as mains, I would probably think the midhorn proposal you make for the center channel would be the right way to go. And it isn't like that's the wrong way to go, so you can certainly do it if you want to.

But the thing is the spectral balance is similar with each of these speakers, so they do sound matched. I would probably use a DI-matched two-way even if my left and right mains were constant directivity cornerhorns. Mostly that's because I know the speakers are already vetted out, tested and optimized. No surprises that way.

The biggest difference is in the room/speaker interface, to tell the truth. The constant directivity cornerhorns having no self-interference, the wavefront launch from the corners and the truly constant directivity throughout the band are things you cannot match with any other configuration. So even if you put a midhorn in the center channel, it's still different than the cornerhorns.

Still, don't let me discourage you. You can do exactly what you've described and it sounds very

midhorns and waveguides on top, just like you've described. The midhorn and tweeter need to be attenuated about 3dB when done this way. Basically, you use the woofer circuit from the constant directivity cornerhorn schematic, but the tweeter circuit uses R1/R2 values shown for the

Either way - center channel being a DI-matched two-way speaker or a hybrid with midhorn - the sound is very good. It sounds natural when things pan across the front channels, through the center. The illusion is maintained, largely because the speakers are all voiced the same.