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Subject: Re: 4 Pi and 7 Pi bass response- More similar or different?

Posted by [Psychoacoustic](#) on Thu, 28 Nov 2013 02:16:00 GMT

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Wayne Parham wrote on Tue, 16 March 2010 21:15

or a similar three-way speaker having the same midhorn and a front-firing woofer. The midhorn was really designed to be used in a corner, and while it doesn't lose all directivity control outside a corner, it can't maintain the horizontal below about 500Hz. It actually starts losing control around 750Hz and by 400Hz, the pattern has doubled in width, basically acting pretty much like a large flat baffle at that frequency. That's still decent control, over an octave lower than without the midhorn, and there is the matter of distributed sound sources in the upper modal region. So there are some benefits, even when used outside corners.

loudspeaker is pretty attractive, having its own set of merits. For the difference in cost, you can

unobstructed corners and distance between them that allows their forward axes to cross in front of the listening position. That's the only problem with the cornerhorns - you need a specific room layout to use them, and not every room has that.

Adding on to this older thread so that the Pi journey is documented.

Wayne, would you mind explaining a little more about how to compliment/augment 7Pi with 2X 3Pi subs as in the quote above? For example, (obviously) the subs cannot be placed behind the 7Pi as they could the 4Pi. And you have written that the 7Pi mid-woofer is fine on its own due the nature of its corner bass reinforcement, so that means that the two subs act as flanking subs that help smooth the overall room acoustics? Basically correct? Specifically, I wish to fill in the lower-end of bass response that the JBL mid-woofer doesn't cover. More rumble and bass-slam from subs in a remote, flanking context possible? I've tried many configurations but would appreciate your thoughts, please.