
Subject: Re: Speaker placement and wavefront launch
Posted by [Wayne Parham](#) on Sun, 09 Oct 2011 04:13:44 GMT
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It's neat stuff. The thing is, when you have constant directivity cornerhorns setup, you really get to hear what constant directivity sounds like. The sound field is uniform through the entire audio band, and the wavefront is unperturbed. Nothing else does it. Not dipoles, not planars or electrostats, not two-way waveguides, nothing.

I've seen a lot of my colleagues claim that constant directivity is most important above 1kHz. It's not true, it's just convenient. In fact, I think it's arguably more important to have controlled directivity in the low midrange, because that's where the nasty vertical modes, floor bounce and back wall bounce do the most damage. Those are probably the most important regions of the spectrum, and yet they are overlooked by many.

Then again, the flanking sub or helper woofer approach does work very well at smoothing that range. It's not like it can't be dealt with using more traditional speakers. But still, if you have a chance to use constant directivity cornerhorns, you'll see what I mean. There just really isn't anything like them.