
Subject: Re: Speaker placement and wavefront launch
Posted by [Wayne Parham](#) on Wed, 12 Oct 2011 17:48:30 GMT
[View Forum Message](#) <> [Reply to Message](#)

Absolutely, the woofer in a constant directivity cornerhorn runs up to around ~300Hz, with a gradual first-order rolloff. It overlaps with the midhorn from 100Hz to 300Hz, smoothing the vertical modes. It gives a full, rich body to the fundamentals in that region, most noticeable in vocals, and instruments like piano, guitar and cello.

Note that middle C is 260Hz, which marks the approximate point where the woofer is starting to rolloff. The octave below that is covered by both midhorn and woofer. Below that, it's pretty much just the woofer. You don't need flanking subs with a constant directivity cornerhorn, because it is sort of built-in. There isn't any rear or side wall reflection, and the vertical modes are smoothed by the overlap between midhorn and woofer. The lowest frequency modes can be smoothed with distant multisubs, but flanking subs just aren't required with this configuration.