Subject: Re: 2Pi's completed - now I want a center channel
Posted by Wayne Parham on Wed, 07 Nov 2012 20:33:56 GMT
View Forum Message <> Reply to Message

Those are great looking speakers, congratulations!

mains. There is enough spectral match between the three. However, do not lay it on its side or use any sort of horizontal array (drivers side-by-side).

Flanking subs are driven with a low-passed signal of the main speaker they're flanking. Second-order seems best, with crossover around 100Hz. Third-order or fourth-order can be used with a slightly higher crossover, e.g. ~125Hz third-order to ~150Hz fourth-order. But I find the latter approaches are more "localizable", which is not what we want. A flanking sub run second-order blends seamlessly.

Phanton centers work well when the mains generate constant directivity and are setup with the crossed-axes method. They can't be too far apart either; It works best when the physical separation between left and right mains is less than about 15 feet. Part of the cross-axes method is that the listeners must be just behind the point where the axes cross, so if all these conditions are met, phantom centers work very well, providing a believable image. Centers are always preferred, but if the setup is right, a phantom center gives a very satisfying illusion and doesn't lack much.