

---

Subject: Speaker locations

Posted by [KickinAces](#) on Wed, 18 Dec 2013 03:15:17 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

So I am going to be building some 4pi speakers for my R/C/L. I already have the plans for them and for 2pi for surrounds. I am getting ready to put up the framing for the HT. I have 143" from wall to wall behind the screen. Unfortunately, about 24" is not able to be used on one side due to the fuse box that I have to have access to. My question is this:

How close together can the R/C/L be placed and still sound alright? I really do not think I should off set them at all. Having them centered, it would leave about 13" between the speakers. Is this acceptable? Or do I need to look to different speakers? I have heard great things about the 4pi, want to build them, but forgot about the limited space.

Thanks

---

---

Subject: Re: Speaker locations

Posted by [Wayne Parham](#) on Wed, 18 Dec 2013 07:53:10 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Of course, there's a sort of "Goldilocks setup" where the toe-in and separation give a natural soundstage over a wide listening area or "sweet spot". Too far apart and the illusion breaks down, but too close together and even with uniform directivity, the "sweet spot" is small. But ironically, sometimes the imaging gets better that way, sort of like some planar speakers give. So as long as you don't need to seat a large audience, it will sound good. just make sure all the listeners are between the left and right mains, and its best if they're behind where the forward axes cross.

Imaging, placement and orientation

High-Fidelity Uniform-Directivity Loudspeakers

---