Subject: Re: Downfiring flanking subs ??
Posted by Wayne Parham on Sun, 10 Feb 2013 22:28:02 GMT
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dheflin44 wrote on Sun, 10 February 2013 13:34I was planning on placing the flanking subs fairly tight in the front corners. I was hoping this would improve room coupling and also lessen the distance the mains needed to be from the front wall while maintaining the same relative spatial offset to the flanking subs. But you're saying it's better to have the flanking subs some distance into the room?
Corner placement usually works pretty well, and you could then also put distributed subs in the opposing corners for modal smoothing at lower frequencies. But I think you'll probably want the subs acoustic center out about a foot or two from the corner. It depends on how far they are from the mains.

Think about what we're trying to do with flanking subs. The notch that's created by the reflection

near the boundary "fills in" the hole, because neither the subs direct sound nor its reflection is

As you reason through this, you'll understand that you can put the flanking subs right on the boundary and they'll mitigate the notch. In fact, that's probably the best approach in some cases, and corners are likely one of them. But remember that it is complex summing, and we're looking

frequency range where it's most effective.

One more thought, if you have corners available, have you considered constant directivity cornerhorns? I am assuming you don't have symmetrical corners or that one or both has an entryway or something. But if that's not the case and you have two good corners, I would suggest using constant directivity cornerhorns.