Subject: Low frequency in room cancellations
Posted by Anonymous on Wed, 11 Sep 2002 18:46:27 GMT
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If you have multiple subwoofer boxes (low pass 60hz) in the same room seperated by great distances (within reason),will the low end cancel out or is it better to group the boxestogether, ie do people place one subwoofer in each corner of theroom or both in the same corner?

Subject: Re: Low frequency in room cancellations
Posted by Robert Hamel on Wed, 11 Sep 2002 20:06:23 GMT
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Well from what I have read you are better off in seperate room placements. You can use multiple subs with diferent placements to smooth the overall room response. Takes some set-up time and measurement tools but it can be done. Stereophiles Guide to Home Theater had a excellent article explaining how to do it. If I can find it I will let you know what issue.Regards Rob

Subject: Re: Low frequency in room cancellations
Posted by Wayne Parham on Wed, 11 Sep 2002 20:30:13 GMT
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If the room is large enough that the room modes all fall below the passband, then the sound acts as a reverberent field. In that case, you would want to setup speakers for constructive reinforcement, where possible. You might want to have banks of loudspeakers, left and right perhaps, and group them so they combine constructively in the middle, over as wide a range of the listening area as possible.If the room is small enough that the Schroeder frequency is in the passband, i.e. some bass is in the modal range of the room, then you might want to distribute subs to form dense interference. The idea is to align the nodes of some subs with the anti-nodes of others. Basically, you want to average the sound field using several bass sound sources distributed around the room. Line the subs up along the stage rather than grouping them together on the left and the right.

Subject: Re: Low frequency in room cancellations
Posted by mrrjm on Wed, 11 Sep 2002 21:39:25 GMT

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I know I'm not an expert at this. I read in a Pro-sound manual that subwoofers should be placed right next to each other. It had something to do with the wavefronts colliding. However I don't have any personal experience with this.Ray

Subject: Re: Low frequency in room cancellations
Posted by Anonymous on Wed, 11 Sep 2002 22:43:50 GMT
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I saw this and said..... coolhttp://www.royaldevice.com Diagram of design http://www.royaldevice.com/customita1.htmNotice how the horn loading is underneath the room and the bass comes out of the grid. 16 woofers I think. Pretty clever design, I like it.

Subject: Re: Low frequency in room cancellations
Posted by Wayne Parham on Wed, 11 Sep 2002 22:45:13 GMT
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Outdoors or in very large spaces, that's right, exactly.

Subject: Concrete in-room horn subs
Posted by Wayne Parham on Wed, 11 Sep 2002 22:51:54 GMT
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That's a great installation, www.RoyalDevice.com.Another one I like a lot is www.Deviniere.Europaudio.com