Subject: Corner Horn Question
Posted by Michaelz on Fri, 16 Aug 2002 13:10:30 GMT
View Forum Message <> Reply to Message

Hi, everyone:I am thinking of building some corner conical horns using JBL 2245 drivers I bought from the Tent sale. The horn will consist of the room corner, the sealed back chamber and the driver facing the very point where the back wall, the side wall and the floor join themselves. The box will be a cube with a corner cut off. And the driver will be mounted on that corner. It will have legs to stand on the floor. The space in front of the driver will be the front chamber and the space between the box and walls/floor will be the throat. Of course the size front chamber and the throat can be changed. The ML Util (a utility based on Doctor Marshal Leach's paper on low frequency drivers and bass horn) gives the 4.455 cubic feet for the back chamber, 0.25 cubic foot for the front chamber (these values do not change with horn flair), with requirement to cover 20-150HZ.I would like to hear what you would think about this project. Pitfalls? Thanks very much!

Subject: Re: Excuse my English..
Posted by Michaelz on Fri, 16 Aug 2002 13:13:13 GMT
View Forum Message <> Reply to Message

Please allow me to make a correction:"The box will be a cube with a corner cut off. And the driver will be mounted on that corner." Please read "... the driver will be mounted where the corner was cut off".Thanks!

Subject: Cornerhorns!
Posted by Wayne Parham on Fri, 16 Aug 2002 15:20:53 GMT
View Forum Message <> Reply to Message

over free-space or 6dB over half-space. The area expansion from the room's corner apex is equivalent to a rectangular straight-walled horn with 70° flare. The corner makes a very large horn, and since the walls are straight, it provides constant directivity for the wavefront. Combine this with matching HF horns and you can generate a very uniform reverberent field. It's a very simple and elegant design, easy to build and great sounding.

Subject: Re: Cornerhorns!
Posted by Michaelz on Fri, 16 Aug 2002 16:01:17 GMT
View Forum Message <> Reply to Message

Hi, Wayne:Thanks for your response! I'll let the forum know when I am done with building these boxes.

Subject: Re: Cornerhorns!
Posted by Wayne Parham on Fri, 16 Aug 2002 17:27:51 GMT
View Forum Message <> Reply to Message

Excellent. Please keep us posted with your progress.

Subject: Re: Cornerhorns!
Posted by Michaelz on Fri, 16 Aug 2002 18:02:21 GMT
View Forum Message <> Reply to Message

Hi, Wayne:Please send Pi7 cornerhorn plans for 2245. Thanks! Here is my e-mail address: xozhang@yahoo.com

Subject: You've got mail!
Posted by Wayne Parham on Fri, 16 Aug 2002 18:20:27 GMT
View Forum Message <> Reply to Message

Subject: Sorry
Posted by Michaelz on Fri, 16 Aug 2002 19:33:19 GMT
View Forum Message <> Reply to Message

Hi, Wayne:Sorry about the wrong e-mail address (I guess it's one of these days). The correct one is xozhang@attbi.comThanks!Michael

Subject: You've got more mail!
Posted by Wayne Parham on Fri, 16 Aug 2002 21:37:49 GMT
View Forum Message <> Reply to Message