Subject: How do you tell when a horn "unloads"?
Posted by Larry Acklin on Fri, 22 Aug 2003 15:08:26 GMT
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OK, I have these big EV 2ft by 4 ft (at the mouth) mid horns that go down to 100-150 hz or so. The ev D12x woofer/mid in a 1 cubic ft box that drives these monsters has response to 55 hz. Can I feed pink noise into one of them (outdoors) and use an RTA to see where the response drops off? Or should I use a sine wave and SPL meter? Or should I measure the dimensions and try hornresp?The object is to have the lowest crossover point for active triamping.The subs (folded horns) have Delta 15s (2 in each, 16 ohm in parallel),and supposededly could go to 1000 hz or so, but sound real tubby much above 250 Hz. EV hp940 horns /w ev DH1A drivers on the tops.(PA use, but boy does it sound good with CDs!)ThanksLarry Acklin

Subject: Measure or model it
Posted by Wayne Parham on Fri, 22 Aug 2003 17:20:34 GMT
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I suppose any of those methods of determining response is fine. I'd probably prefer the modeling method, because it's hard to get accurate measurements with inexpensive measurement equipment, particularly indoors at low frequencies. When measuring below 500Hz or so, it is best to take measurements outside. Set the horn on its back, facing up. You might want to mount the horn on a baffle and test it that way, because that will most likely have different response than it does off the baffle. Or you can dig a pit and lower the horn into it, with the mouth flush with the ground.