Subject: midrange horn gain
Posted by djstan on Sun, 17 Apr 2005 22:31:56 GMT
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Want to try a pair of Audax 8 inch midranges (HT210T0) in a pi-type horn crossed to the Eminence 2002 at 1.6 khz. My question is how much gain would the horn provide? From what I can tell you get about a 10db of gain. The Audax mids are rated at 99db sensitivity and pretty flat according to their charts, so I'm assuming in a mid-hornI might be looking at 109db. Does this seem reasonable. The Yorkville TX8 uses an 8"Audax mid and I have a feeling it is similar to mine, and they spec the midrange at 109db sensitivity. Wayne, what is the sensivity of your midrange horn. Thanks

Subject: Re: midrange horn gain
Posted by Wayne Parham on Mon, 18 Apr 2005 03:14:27 GMT
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The midhorn provides about 10dB more than direct radiation into freespace. But remember that the range is basically 200Hz to 2kHz. In that range the driver is probably more like 95dB/W/M in freespace. The average sensitivity is sometimes shown higher because it includes output at high frequencies where collapsing DI and cone flex modes increase output. Average the low frequencies and high frequencies together and the SPL is higher. In a 90x40 midhorn, you should probably expect about 105dB/W/M or so.