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Subject: I need help with size of cabinet for LA  
Posted by [djn](#) on Fri, 28 Oct 2005 01:12:48 GMT

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Hi All, some time ago I got Bill Fitssomethings plans for his Transmitting Line Array Horn (TLAH) to build for my daughters dorm room. I bought the drivers (see below for the drivers and specs) and want to build a straight line array as the TLAH will not fit in her dorm room. I don't know how big the cabinet should be for eight mids and eight tweeters. Here are the specs for both. Thank you so much in advance. The drivers I have are: the Onkyo tweeter from PE:3/8" Mylar tweeter with neodymium magnet mounted on a pole piece. Originally designed to be mounted on the pole piece of a driver to create a coaxial speaker. Tweeter can be removed from pole mount, but only with great difficulty. Limited quantities. Specifications: \*Power Handling: 20 watts RMS/40 watts max \*VC dia: 3/8" \*Znom: 6 ohms Re: 4.00 ohms \*Frequency range: 6,000-20,000 Hz \*Fs: 4,200 Hz \*SPL: 87 dB 2.83V/1m \*Tweeter Dimensions: Overall Diameter: 1-3/8", Cutout Diameter: 1", Mounting Depth: 1/2". And the Pioneer mid from PE: This lovely 4" driver is an all-around great performer that offers excellent full-range performance in a small, fully-shielded package. These drivers are great for many different types of designs, from dipole surround speakers to center channels, and are even perfect for line arrays! Driver features: 3/4" V.C. on paper former, large flat spider, paper cone, rubber surround, and a paper dustcap. Specifications: \*Power Handling: 5 watts RMS/10 watts max \*VCdia: 3/4" \*Le: .60 mH \*Znom: 8 ohms \*Re: 7.50 ohms \*Frequency range: 75-15,000 Hz \*Fs: 105 Hz \*SPL: 86 dB 2.83V/1m \*Vas: .08 cu. ft. \*Qms: 5.0 \*Qes: .90 \*Qts: .76 \*Xmax: 1 mm \*Driver Dimensions: Overall Diameter: 4", Cutout Diameter: 3-11/16", Mounting Depth: 2-1/4".

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