Subject: Re: Yeah....AWESOME
Posted by Marlboro on Wed, 25 Apr 2007 12:44:10 GMT
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I have a basic difference of opinion with the Selah versions of line arrays. We all use Jim's research, but I don't believe in breaking up the critical human hearing band with a crossover, and mine are clearly designed as three ways, not two ways with a sub woofer.So there is no sub woofer here. There are three separate power amps and two 12 inch woofers that are capable of handling 17hz to 300hz with out a problem. My problem with Selah is the use of 8 inchers. They really won't cover the deep bass, and they get thin in the lower midrange. Now when you use a lot of them, this is a bit blurred, but..... I can't believe that their transient response can be as good as a three inch speaker; the big cone just can't move fast enough.I've not heard the Selah so I can't say, but we have basically different design characteristics. However, I'm using domes for two reasons: 1. I like dome tweeters, 2. Domes fit in my price building model. You could use ribbons, but I would NOT use any one except the B&G Neo 3. You would need a line of them at least 35 inches big.You can't buy the mid range anymore, but there is a good HiVi model which I would recommend as a replacement---more expensive, but it would fit the design parameters. As a bass amp, mine is a two channel one with 350 w/ch. I picked it up on ebay. Its not the best amp for upper mid and high frequencies, but its great for the low ones, and never even gets warm. For the mid range 165hz to where you cross to the tweeters(2600 to 3500), you need a power amp of about 150 - 200 watts/ch, looking for something HEAVY showing a really good power supply and a big capacitor. For the tweeters, any amp will do. I have an old Sherwood receiver I use for them that puts out 60 w/ch, and is light with a light power supply.PVC pipes are simple 4 inch thin wall white drain pipe. Very cheap at Home Depot in the States.I bought my Rane AC23 on ebay used for about $115, new they run $400, but they are built like brick sh*t houses, so there is no need to buy a new one. If you want a digital one, so you can have a slope up to 88db/octave or anything in between, you can get a Behringer for about $230.An equalizer is worthwhile having. You need a constant-Q model, and at least 2/3 octave, 1/3 would be better but I couldn't afford it in my budget. Expect to pay on ebay about $175 for a two channel constant Q DOD or Rane analog equalizer. Mine is not currently in the loop.You need a measurement mic, behringer 8000 or Apex 220, and software.For woofers I use a DVC 12 inch Goldsound which retail at about $129 now. Any other one by Dayton for the same price around $130 or so would work. You need two of them.You need a preamp. I use a Kenwood B-1, but a Kenwood B-2 would be even nicer. Any pre-amp that works for you would be fine.That's a smattering of what I needed---maybe a quick 10% of the total info you need to design it.Marlboro