Subject: folded horn midrange
Posted by wansun on Tue, 05 Oct 2004 10:58:10 GMT
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do you think midrange should come from folded horn?what highest crosover freq? 600? 400? 200?some horn use 400-500 but wood sound in voices.what can be done? maybe all horn must be strait, no fold?

Subject: Re: folded horn midrange
Posted by Bill Fitzmaurice on Tue, 05 Oct 2004 11:51:40 GMT
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Folded horns are quite capable of delivering midrange to well over 3kHz if the geometry is properly configured.

Subject: Re: folded horn midrange
Posted by GraemeG on Tue, 05 Oct 2004 12:55:29 GMT
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Depends on what frequency range you call midrange. I am currently working on cone driver horn to run 500Hz to 3.5kHz with wide horizontal dispersion. Its mating lo-mid horn will be bent (ie not abruptly folded) and run from 150Hz to 500Hz. Unless you want to cover wide band and down fairly low, path length is quite often too short to allow folding due to the large radius bends required to path the higher frequencies. A wide band folded horn will also beam quite significantly at high frequencies."Wood sound in voices" would suggest to me improper horn and/or crossover / component selection.Cheers

Subject: Re: folded horn midrange
Posted by Cal W on Tue, 05 Oct 2004 14:56:41 GMT
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I prefer to keep the crossover out of this band. I think it is ok for pa speakers but better for fidelity's sake to avoid. A good example is the classic Klipsch speakers esp. La Scalas and some Klipschorns. The upper bass gets resonant in those and it colors the midrange.