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Subject: Re: Horn Depth & Mouth Diffraction

Posted by [Wayne Parham](#) on Tue, 13 Mar 2007 14:55:59 GMT

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Path length sets the position of standing wave nodes, but it is not a determiner of diffraction. Diffraction is set by aperture size and wavelength. The size of the opening and the wavelengths that pass through determine the amount of pattern spreading from diffraction. Pattern control and mouth size if your main concern is comb filtering, you might consider that at 150Hz, wavelength is 7.5 feet. Sound sources can be nearly 2 feet apart and still sum as a single sound source.

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