Subject: SPL measurement
Posted by Wayne Parham on Wed, 30 Aug 2006 16:37:48 GMT
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Measurements are usually made at a distance greater than 1 meter and then calculated back to the equivalent value at 1 meter. If the loudspeaker is large, this is important since otherwise the measurement microphone would be too close. Line arrays and horns are large, so the distances between the microphone and the furthest point and the closest point of the loudspeaker are quite different. For example, in a basshorn the path length from driver to mouth is often over 3 meters. A line array is usually at least a meter tall, and sometimes several sources are lined up spanning several meters. So the measurement microphone is placed further than 1 meter away. A good setup is to measure at 10 meters and add 20dB to obtain the 1 meter figure, but you can use any distance and calculate back.