



## Lyin' Array

*AKA Banana Stack*

1. A Lyin' Array doesn't have a single on axis frequency response. It varies with distance in surprisingly non-linear and not particularly beneficial ways. Heck with a typical array, even the geometric concept of "on-axis" is quite arbitrary.
2. A Lyin' Array doesn't have a meaningful polar pattern. It has at best an arbitrary rotation point across it's long dimension, but never mind because it's off axis response varies with distance too.
3. Even if for the sake of intellectual argument you wish to measure the true far-field response of a Lyin' Array, it will be physically impossible, indoors or out, because atmosphericics will wreck the measurement. The distance to the farfield may be hundreds of yards.
4. None-the-less, go ahead and measure it in whatever way you see fit, draw conclusions from the data, publish and proclaim it to be valid, and use it in modeling programs to make equally invalid predictions. Most other manufacturers of Lyin' Arrays do.
5. Whatever you do, don't actually take the time to carefully measure one on site. It's so unfashionable.
6. Lyin Arrays do what they do through "Destructive Interference". The Inverse Square Law is just that. It is a "law" of physics ordained by God. God himself invented sound waves and determined how they would behave here on Planet Earth. As with any law that man tries to usurp, there will always be consequences for that action. With the Lyin array, the consequences of this inferior attempt at breaking the Inverse Square Law are Finger-Lobing (both horizontal and vertical), Phase Cancellation, and Poor Fidelity. That's just the way it is.