

Polar Response

The polar response is calculated by moving the mic with the polar controls on the System tab. The coordinate points cannot be changed directly by the user. These are changed through the Horizontal and Vertical Rotation angle settings. The values are not actually vector angles, they are rotation angles. The rotation order is horizontal, then vertical. The order matters, so even if you change the vertical angle, the horizontal rotation angle is applied first. This was an arbitrary selection. What's important is to be able to rotate the mic to any particular x,y location desired.

The Polar Active/Inactive setting must be set to active for any polar calculations to be enabled. That is, the off-axis response due to the crossover and driver spatial locations plus the driver diameter influence are both dependent on it.