

## Microphone Directionality

- Every microphone has a property known as *directionality*, which describes the microphone's sensitivity to sound from various directions.
- The way a microphone picks up / hears sound from various direction is known as its pickup pattern, and is a graph of a microphone's sensitivity vs. the angle of the incoming sound wave.
- The farther from center a point on the graph is, the stronger is the mic signal at that angle.

The types of directionality are divided into three main categories:

- **Omnidirectional**

Picks up sound evenly from all directions, irregardless of its point of origin.

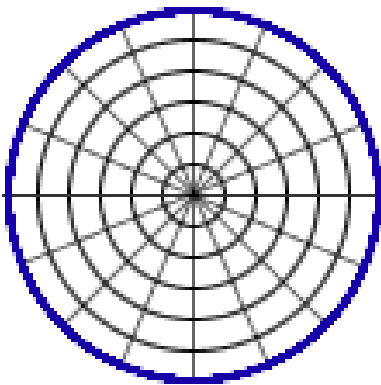
- **Unidirectional**

Picks up sound predominantly from one direction. It reject sound coming from the back of a microphone and are progressively more sensitive to sounds in the direction approaching the front of the microphone.

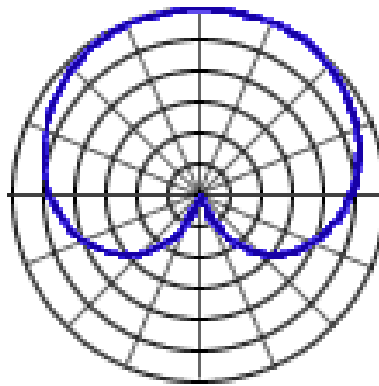
- **Noise canceling**

Picks up sound from two opposite directions (front and back), but not the sides.

**Omni**



**Uni**



**Noise Canceling**

