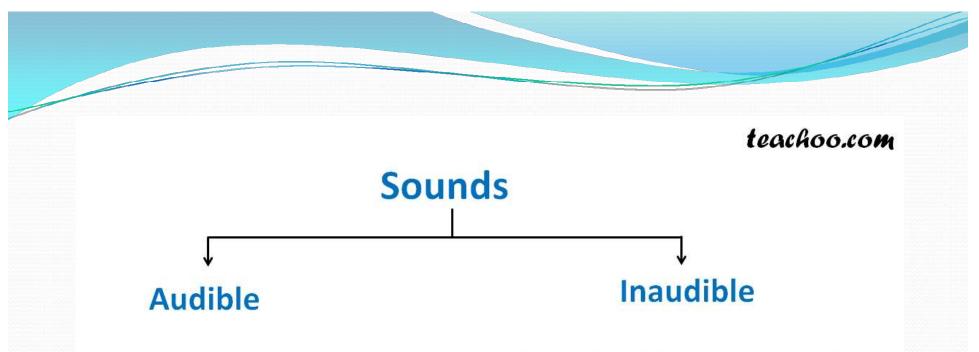
SOUND

JINSA K JOY DEPT.OF MULTIMEDIA



Sounds which we can hear

Example

Sounds with frequency from 20 Hz to 20,000 Hz

Sounds which we cannot hear

Example

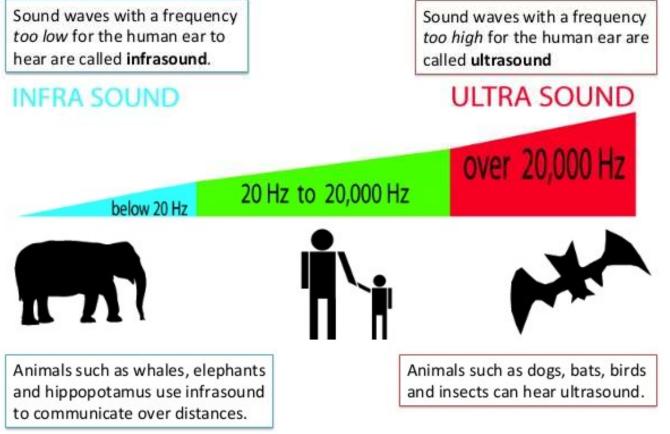
Sounds with frequency

Less than 20 Hz

Or

More than 20,000 Hz

Ultrasound & infrasound

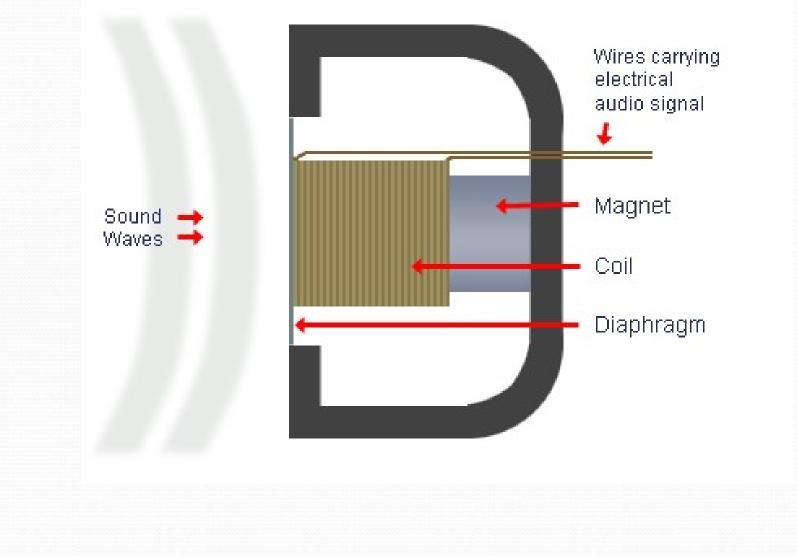


Dynamic Microphones

- The dynamic microphone is a good all rounder microphone which can be used for Vocals, recording drums as well as guitar arms.
- It does not need a power supply
- They are fairly low cost

• Most common type are the SHURE SM57 and the SHURE SM58

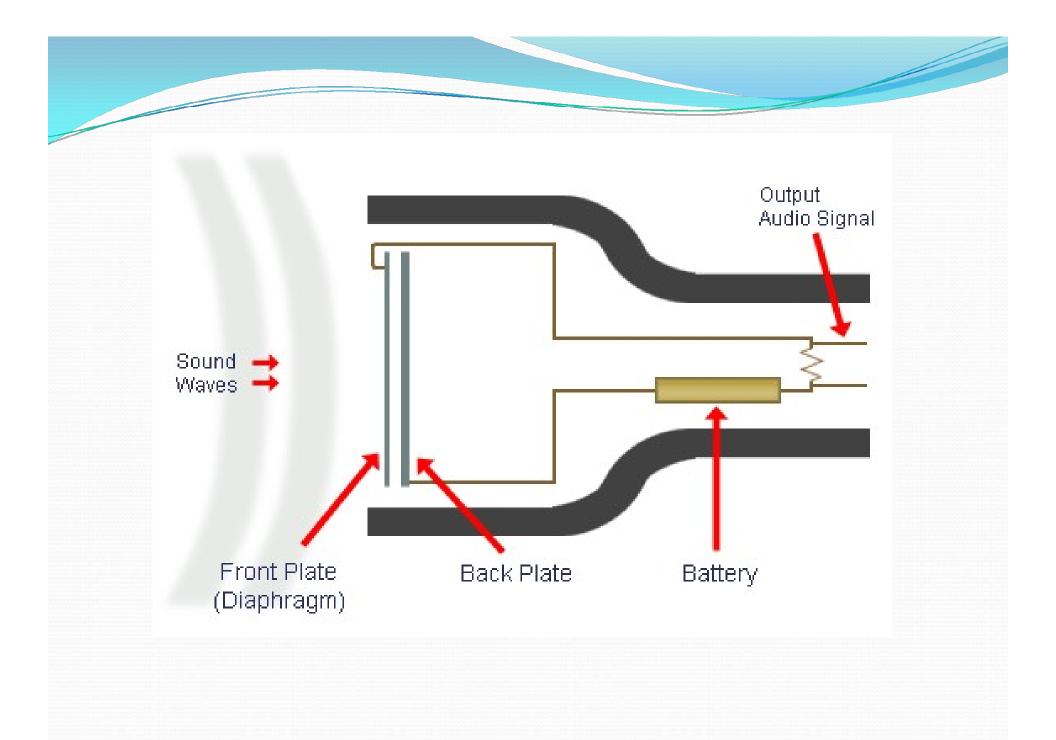
Cross-Section of Dynamic Microphone



Condenser Microphones

- Ideal for recording vocals or acoustic guitars
- Perfect for precision recording and capturing subtle nuances on pianos or acoustic guitars
- They do need a power supply

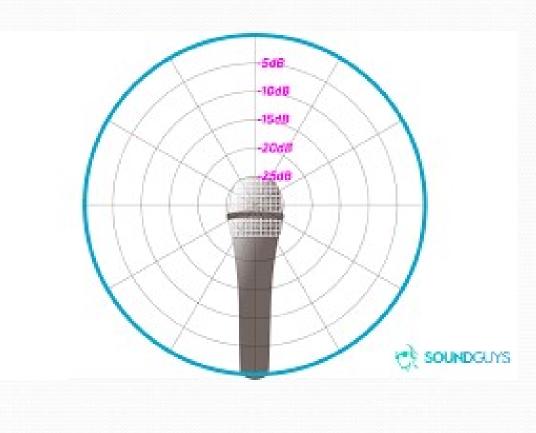
• Very sensitive to breathing and "popping"



Directional Properties

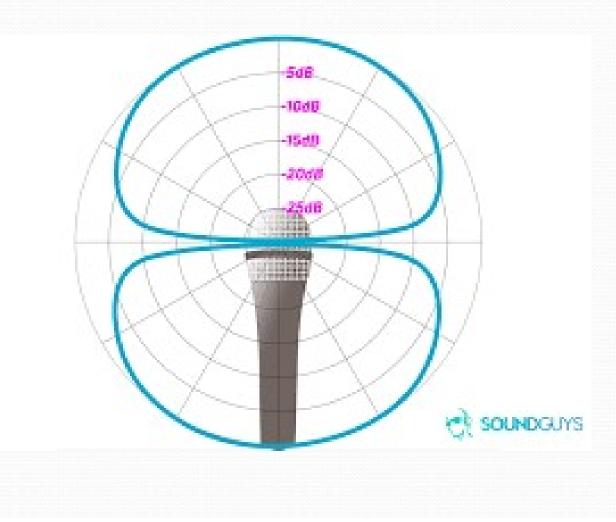
Omnidirectional

Picks up sound evenly from all directions (omni means "all" or "every").



Bidirectional

Picks up sound from two opposite directions.



Unidirectional

Picks up sound predominantly from one direction. This includes cardioid and hypercardioid microphones (see below).

