Restricted Microphones

- 1. Care and Safety
- 2. Microphone Types
 - 3. Accessories
 - 4. Quiz

Make it Last:

Don't drop a microphone! Inside, a tiny, 2-5 micron thin piece of gold foil is stretched to form a membrane. This is easily damaged.

Don't submerge a microphone, it's not a hydrophone! Also, avoid getting **any** moisture in/onto a mic.

Don't blow into a mic to check if it's working! That little gold membrane is easily moistened from your breath and will become noisy and sound coloured.

Avoid dusty environments. Dust has a similar effect on the membrane.

Avoid extreme heat. Leaving the mic on the dashboard of a car in the summer will probably melt the membrane, leaving the mic useless.

Dynamic

Condensor



- ° Does NOT require power
- ° More durable
- ° Less sensitive

° Requires power

° Delicate

° High resolution

° Very sensitive





Mic Powering Options

- Phantom Power (P48) 48 volts
 - From a mixer or recorder
 - 9-volt power supply

or . . .

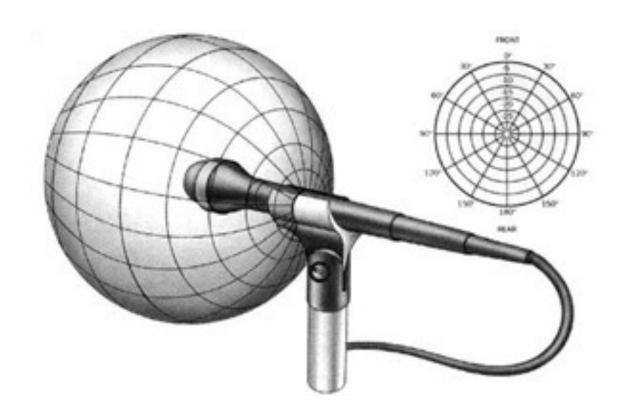


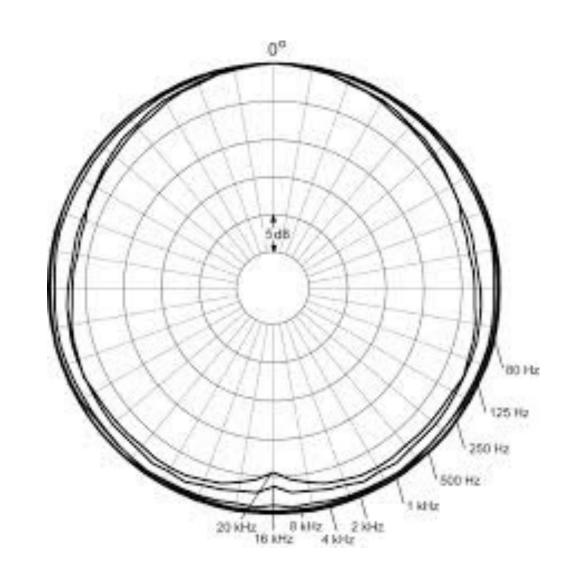
*By far the preferred method of powering is Phantom power. Unless using Lithium-ion, **batteries degrade the sound** as they loose power.



Mic Polar Patterns

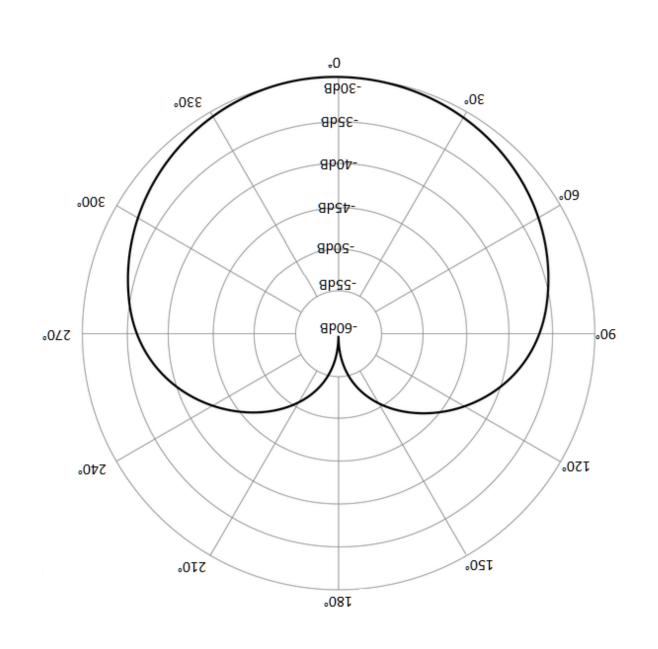
Omni-directional





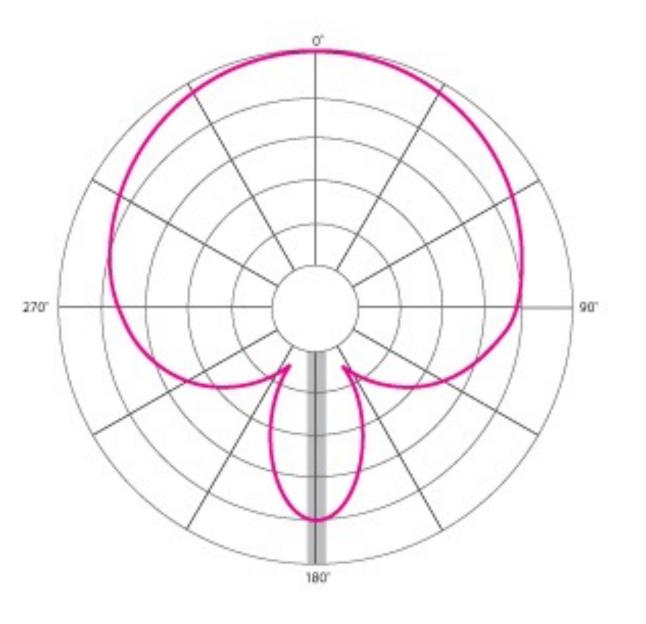
Cardioid





Hyper-cardioid





Mic Selection like lenses

Wide, diffuse



Omni wide angle

- Best for Ambience or Room Tone
- ° Great for stereo backgrounds
- ° Handles wind better than others
- ° Closest to the human ear
- ° Great stereo music recording
- ° Captures the most bass freq.
- No proximity effect (bass buildup)

Cardioid portrait

- ° Rejects sound from rear
- Very forgiving pattern
- ° Great for voices (close up)
- ° Has proximity effect (bass buildup)
- Works well on instruments

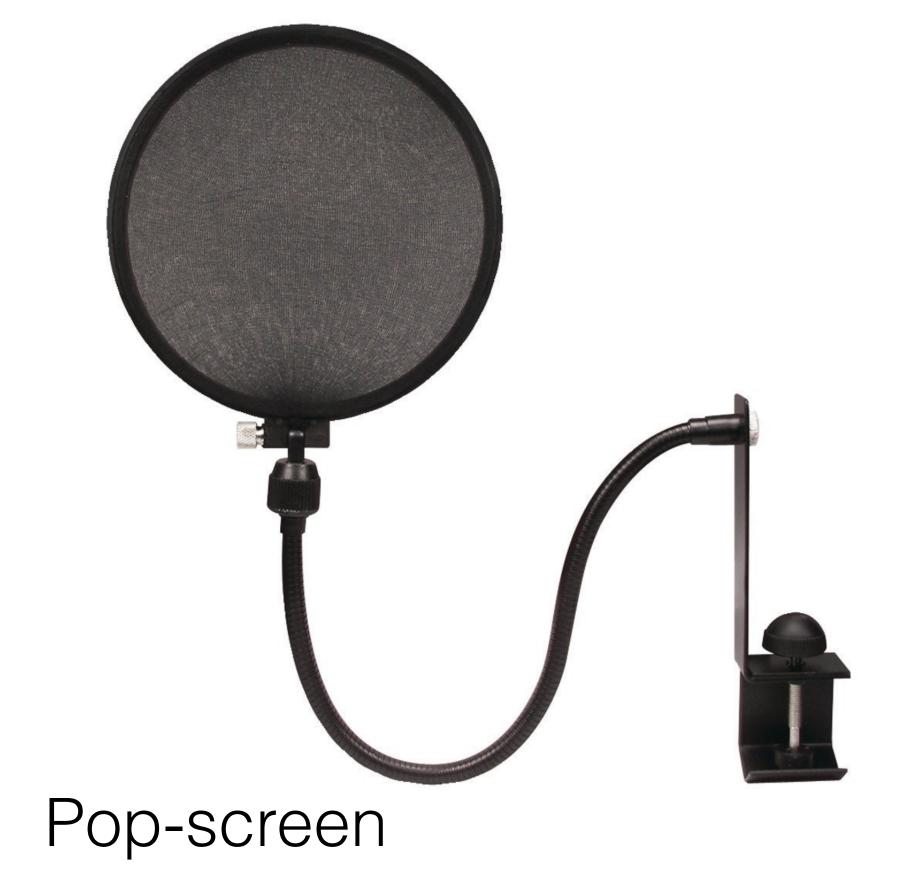
Hyper-Cardioid zoom

SHOTGUN:

- Very narrow pickup pattern
- ° Eliminates sound from sides
- ° Can be un-natural in reverberant spaces

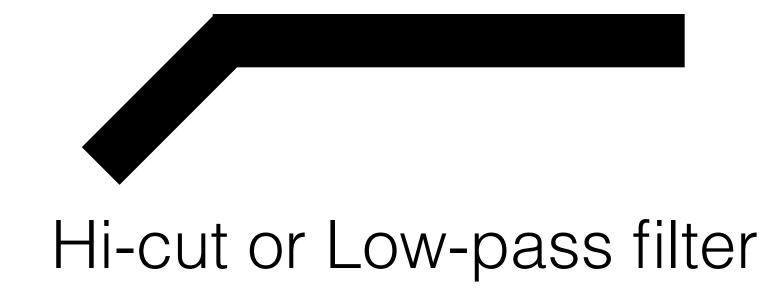
SHORT SHOTGUN:

- Best for indoor dialog on boom
- ° More natural than long shotgun in reflective or reverberant spaces
- ° Slightly wider pattern than long shotgun



Accessories





Happy Mic'ing!!

