

The background of the slide is a vibrant blue watercolor wash. It features a mix of deep cerulean and lighter sky blue tones, with soft, organic edges that blend into each other. The texture is visible, showing the grain of the paper and the fluid nature of the paint application. The overall effect is artistic and calming.

# Mics

Types, Techniques and reasons

# Introduction

## Part 1

Two mic types

How they work

What we use them for

Knowledge Task

## Part 2

Miking a Drum Kit

Mics Available To You

Other Tips

Planning Task

A black and white photograph showing a dynamic microphone on a stand, positioned next to a piano keyboard. The microphone is the central focus, angled towards the upper right. The piano keys are visible in the lower left, and the background is softly blurred, showing what appears to be a studio or rehearsal space with some equipment. The text "Dynamic Mics" is overlaid in white on the right side of the image.

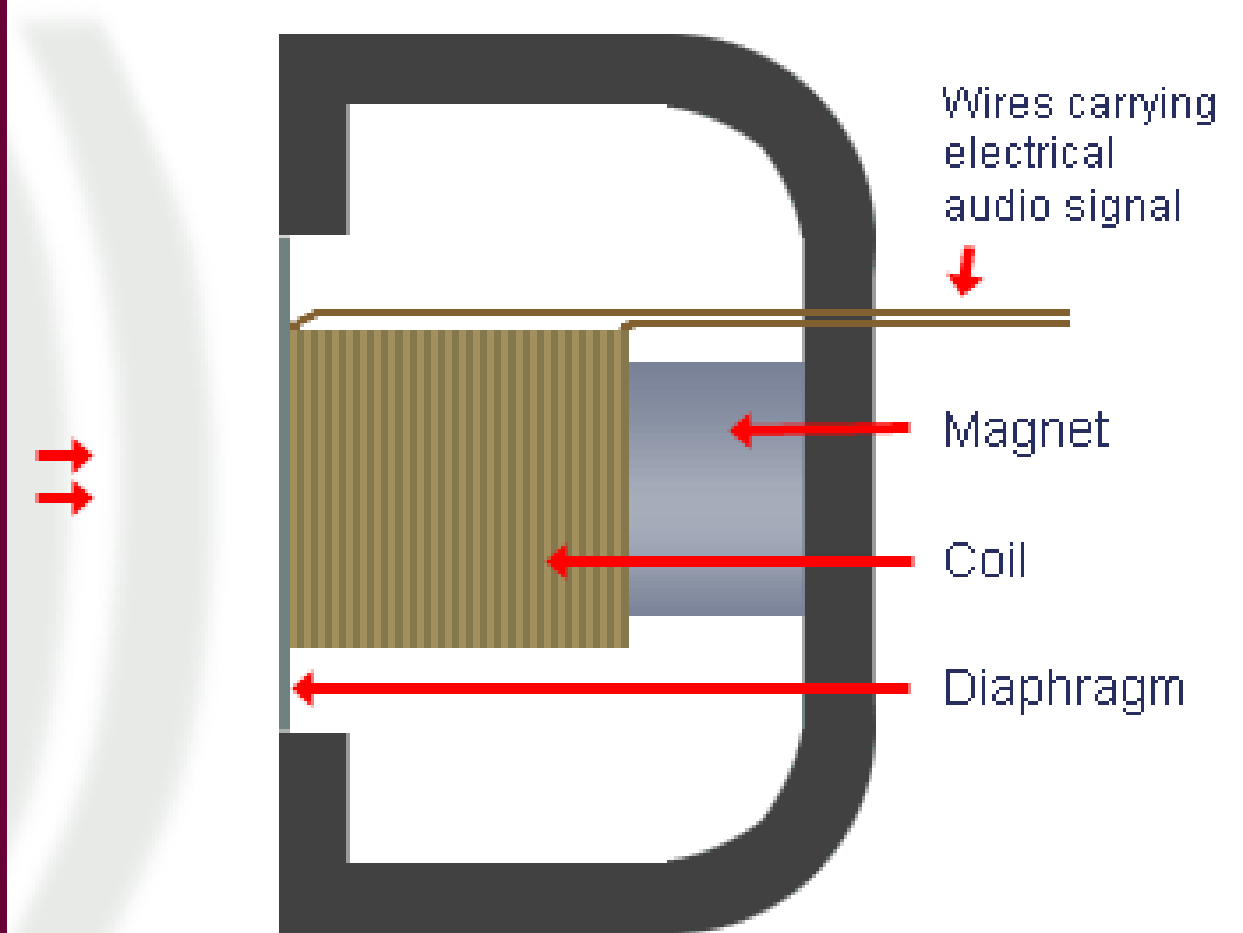
# Dynamic Mics



# Properties

- Less sensitive due to heavy diaphragm
- Cope really well with loud bass-y sounds
- Extremely robust
- Used A LOT in live sound
- Average frequency response between 40 and 15,000Hz, peak around 2.5kHz

## Cross-Section of Dynamic Microphone

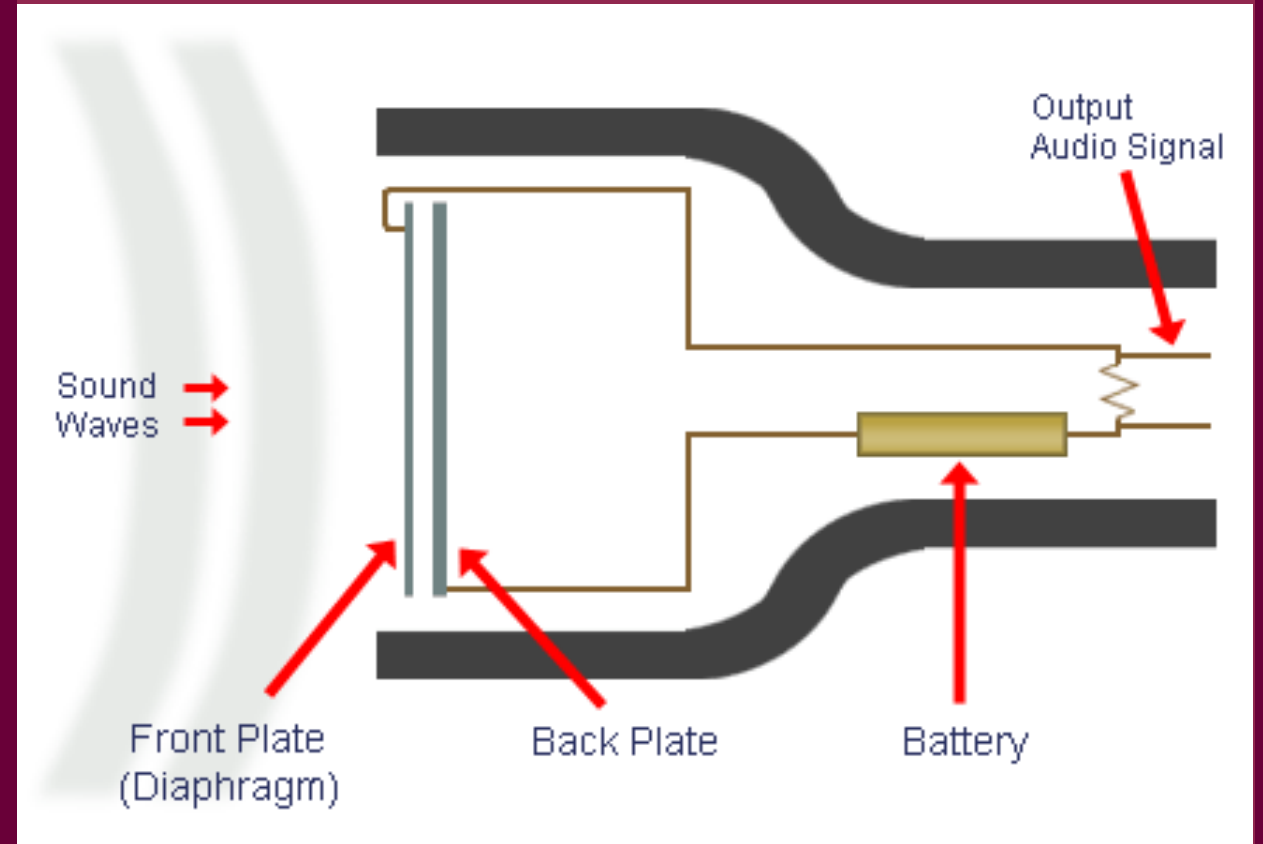


A professional condenser microphone is mounted on a boom arm in a recording studio. The microphone has a silver mesh grille and is positioned in front of a black pop filter. The background is softly blurred, showing a desk with a computer monitor and warm studio lighting.

# Condenser Mics

# Properties

- More sensitive/ detailed sound
- Lighter diaphragm
- Used for higher pitched instruments
- Requires additional power source- Phantom power (+48v)
- Used on most vocals
- Brighter sounding
- Bigger frequency response between 20Hz and 18,000Hz



# Here is a short clip on how the mics work



# What Do We Use For What

| Instrument                   | Mic                              | Placement  |
|------------------------------|----------------------------------|--|
| Kick drum                    | Dynamic                          | As close as possible                                     |
| Snare                        | Dynamic                          | As close as possible                                     |
| Toms                         | Dynamic                          | As close as possible                                     |
| Hi-Hats, Cymbals, Percussion | Condenser                        | 0.5- 1 meter away  |
| Bass                         | D.I or Dynamic/ Condenser on amp | As close as possible                                     |
| Electric guitar              | D.I or Dynamic/ Condenser on amp | As close as possible                                     |
| Acoustic guitar              | Condenser or Dynamic             | 12 <sup>th</sup> fret (sweet spot) or near to sound hole |
| Vocals                       | Condenser                        | 20-30cm away from vocalist, pop filter can be used       |
| Piano                        | Condensers                       | Open top panel, mic inside or above soundboard.          |
| Electric Piano               | D.I                              | Straight into headphone out                              |



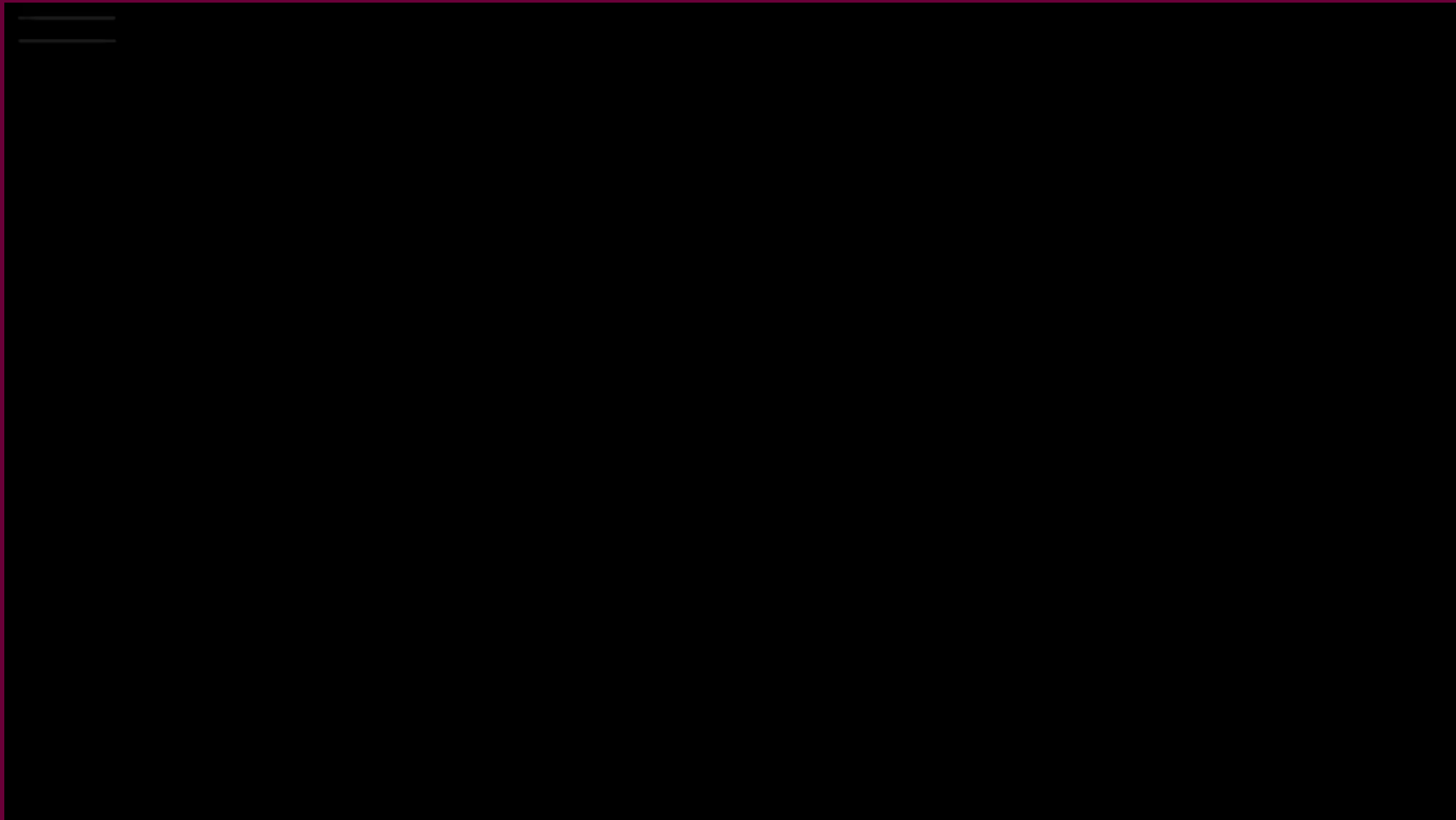
Using what you have just read/seen, fill in the table below with the different properties of the two types of mic, and submit a screenshot to Mr Crago. (Make sure you download the PowerPoint first!)

| Dynamic | Condenser |
|---------|-----------|
|         |           |

# Part 2

# Miking A Drum Kit

- Watch the clip below on some of the industry standards for miking up a drum kit for recording.



# Miking A Drum Kit

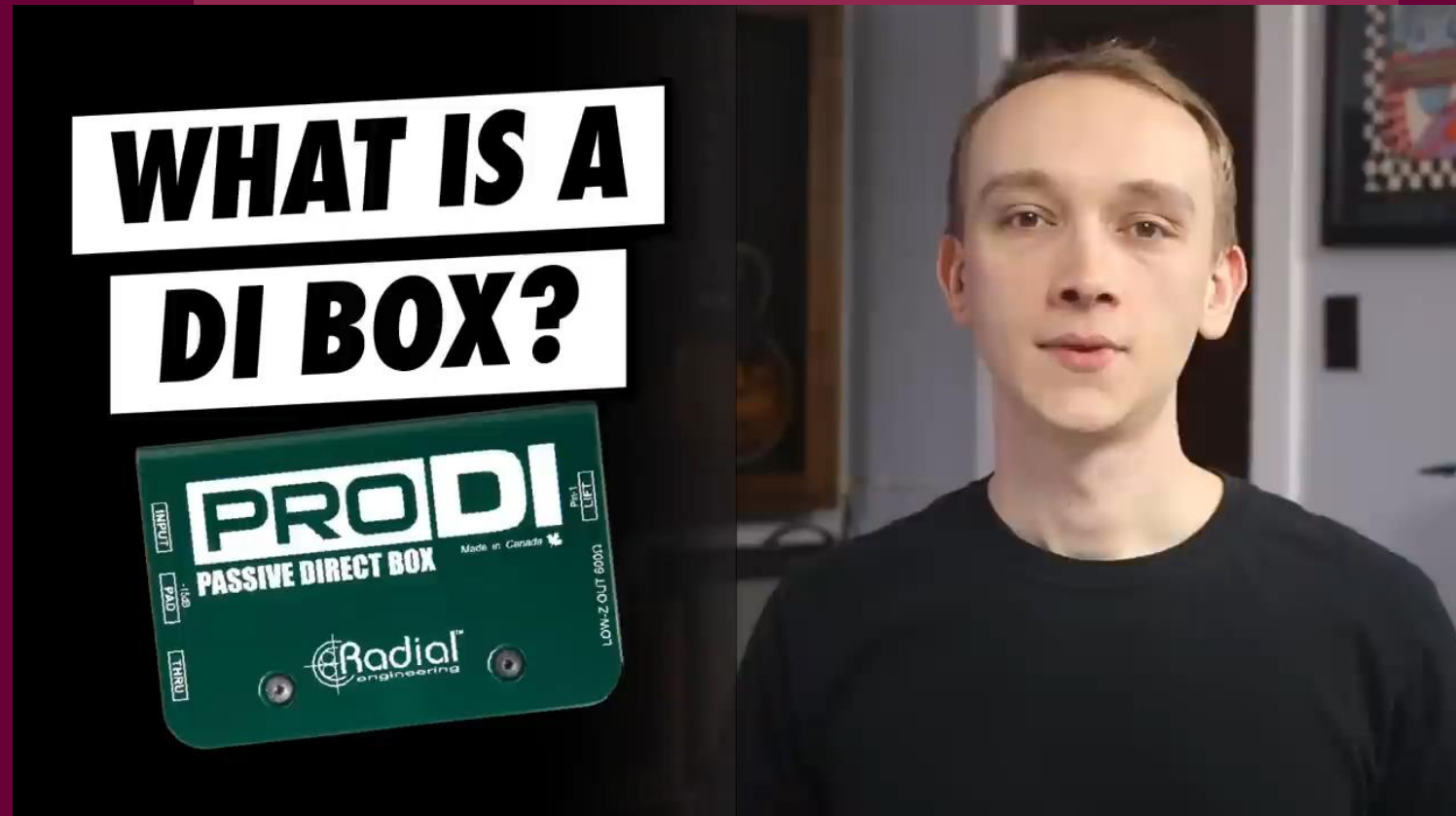
Here is an example of how the drums would be miked using the drum mic kit we have





# D.I'S

What are they and what do we use them for? Watch the clip to find out.



Here are the mics available to you:

AKG P4 DYNAMIC



AKG P17 PENCIL  
CONDENSER

AKG P2 DYNAMIC

SHURE SM58 DYNAMIC



AKG C3000 LARGE DIAPHRAGM CONDENSER



# Task

A drummer, bassist, and vocalist are coming in to record their latest single. Use the track sheet below to create a plan for the session and submit a screenshot to Mr. Crago via Email. (Please download the PowerPoint first!)

[illegible]