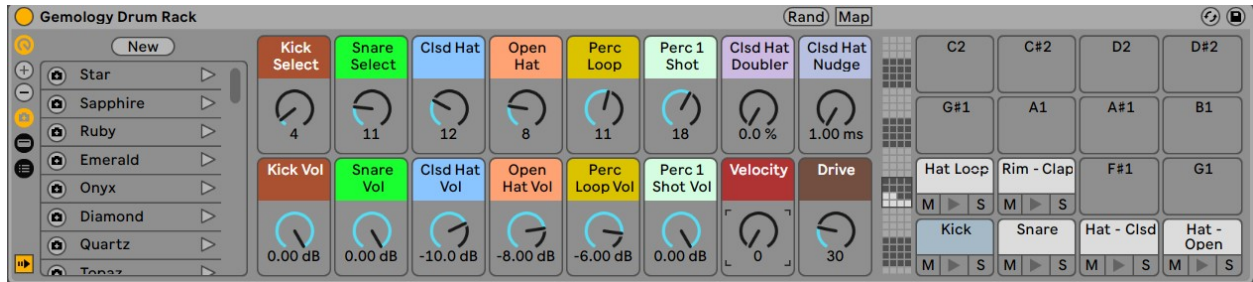# Gemology Ableton Edition: User Manual

## Introduction

Welcome to the **Gemology Ableton Edition**,. This manual will guide you through the installation process and help you make the most of the **Gemology Drum Rack** and **Gemology Sample Rack** in Ableton Live.

## Installation Guide

The installation guide can be found here: Gemology Ableton Live Pack Installation Guide

## Requirements

- **Ableton Live Standard or Suite Version 11.3.22** or higher

## Understanding the Ableton Racks

The Gemology Ableton Edition includes two custom racks:

1. **Gemology Drum Rack**
2. **Gemology Sample Rack**

Both racks are designed to be intuitive and flexible, offering you a wide range of creative possibilities. While they share some functionalities, each rack has unique features tailored to different aspects of your production.

## Gemology Drum Rack

### Overview

The Gemology Drum Rack is a powerful tool for crafting drum patterns with ease. It features 16 macro knobs divided into sections for selecting and mixing individual drum sounds, as well as special effect controls.

## Selecting Individual Sounds

- **Macro Knobs 1-6**: Use these knobs to select individual drum sounds:
    - **Kick Selector**
    - **Snare Selector**
    - **Closed Hi-Hat Selector**
    - **Open Hi-Hat Selector**
    - **Perc Loop Selector**
    - **Perc One-shot Selector**

  Simply turn the knob to browse through the available sounds for each drum element.

## Mixing Drums in the Rack

- **Macro Knobs 9-14**: Control the volume of individual drum sounds:
    - **Kick Volume**
    - **Snare Volume**
    - **Closed Hat Volume**
    - **Open Hat Volume**
    - **Perc Loop Volume**
    - **Perc One-shot Volume**

  Adjust these knobs to balance the levels of each drum component in your mix.

## Special Macro Knobs

- **Macro Knob 7 (Hi-Hat Doubler)**: Adds a doubling effect to the closed hi-hat, creating an echoed rhythm that syncs to your project's tempo.

- *Tip:* Works best with an 8th-note hi-hat pattern, but feel free to experiment!

- **Macro Knob 8 (Hi-Hat Nudge Delay)**: Shifts the closed hi-hat backward in time by milliseconds, adding groove and swing to your pattern.

- **Macro Knob 15 (Velocity)**: Controls the velocity dynamics of your drum sounds.
  - At **0**: Maximum velocity range (more dynamic).
  - As you increase the knob: Sets a minimum velocity threshold, making hits more consistent.

- **Macro Knob 16 (Drive)**: Applies drive and distortion to the entire drum kit for added warmth and grit.

# Gemology Sample Rack

## Overview

The Gemology Sample Rack is designed for manipulating melodic and harmonic samples. It contains the **20 original sample compositions** included in the Gemology pack. Each composition is **chopped across the keys/pads** of your keyboard or MIDI controller in **one-bar increments**, starting from note **C1**, making it easy and fun to create your own unique chops.

**Note:** Holding down a key or pad will continue playing the composition all the way through until you release it; it will not stop after one bar.

## Macro Knobs and Their Functions

- **Macro Knob 1 (Sample Selector)**: Browse and select different samples to use in your project.

- **Macro Knob 2 (Pitch Adjustment)**: Adjust the pitch of the selected sample in semitone increments, allowing you to match the key of your project or create interesting pitch effects.

- **Macro Knob 3 (Low Cut Filter)**: Removes low-frequency content from the sample, helping it sit better in the mix.

- **Macro Knob 4 (High Cut Filter)**: Removes high-frequency content, useful for creating a more mellow or vintage sound.

- **Macro Knob 5 (Wobble)**: Emulates the subtle pitch variations of a vinyl record on a turntable, adding character and warmth.

- **Macro Knob 6 (Volume)**: Controls the overall volume of the sample rack.

## Using the Random Button

### For the Drum Rack

The **Random Button**, located in the Drum Rack's title bar, generates new drum kits by randomizing the selected drum sounds.

**To use the Random Button:**

1. **Map the Random Button (Optional):**

   - **MIDI Mapping:**

     - Enter **MIDI Map Mode** by clicking the **'MIDI'** button in the top right corner (or press **Ctrl+M / Cmd+M**).

     - Click on the **Random Button**.

     - Press the desired button on your MIDI controller.

     - Exit MIDI Map Mode.

   - **Key Mapping:**

     - Enter **Key Map Mode** by clicking the **'Key'** button (or press **Ctrl+K / Cmd+K**).

     - Click on the **Random Button**.

     - Press the key on your computer keyboard you wish to assign.

     - Exit Key Map Mode.

2. **Generate Random Kits:**

   - Each time you press the mapped button or click the Random Button, a new drum kit will be generated, providing endless inspiration.

### For the Sample Rack

The Random Button doesn't significantly affect the Sample Rack, as it only changes the selected sample without altering other parameters.

## Saving Your Own Custom Presets and Modifying Existing Presets

You can save your customized settings in both the Drum Rack and Sample Rack for quick access in future sessions.

### Saving a New Preset

1. **Customize Your Rack:**

   - Adjust the macro knobs to your desired settings.

2. **Save the Preset:**

   - Click the **'New'** button in the **Preset Variations** section (ensure this section is visible by clicking the **'Variations'** button).

### Modifying an Existing Preset

1. **Select the Preset:**

   - Click on the preset you wish to modify.

2. **Adjust Settings:**

   - Make your changes using the macro knobs.

3. **Update the Preset:**

   - Click the **camera icon with a '+' symbol** next to the preset name to overwrite it with your new settings.

### Preserving Your Custom Presets

To ensure your custom presets are always available:

1. **Resave the Rack:**

- After creating or modifying presets, click the **disk icon** at the top right of the rack's title bar.

- If prompted to overwrite the existing file, confirm by clicking **'Yes'**.

By resaving the rack, your custom presets become a permanent part of it, accessible every time you load the rack from your Ableton library.

## Additional Tips

- **Experiment Freely:** Both racks are designed to encourage experimentation. Adjust the macros, combine different sounds, and explore new sonic territories.

- **Use Macros Creatively:** The macros offer powerful sound-shaping capabilities. For example, combining the **Wobble** effect with pitch adjustments in the Sample Rack can produce vintage lo-fi textures.

- **Layer Sounds:** Consider using both the Drum Rack and Sample Rack simultaneously to create full, rich compositions.

## Conclusion

We hope the **Gemology Ableton Edition** inspires you to create amazing music. With its flexible Drum Rack and expressive Sample Rack, you have a comprehensive toolkit at your fingertips.

If you need further assistance or have any questions, please don't hesitate to contact us at **oracle@soundoracle.net**.

**Happy music making with the Gemology Ableton Edition!**