



The Big Knob - Physical Volume Controller



potatoworld

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Summary

Physical Volume Controller with OLED screen powered by a RP2040.

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"Big Knob" is a Physical volume control knob with an OLED Screen. Utilizing a 3D Printed case and running on a SEEED XIAO RP2040. The screen is mostly cosmetic, displaying a matrix style animation during inactivity and providing realtime feedback about the input being sent to the PC.

You will need the following hardware components:

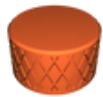
- **XIAO RP2040:** A powerful microcontroller from Seeed Studio.
- **EC11 Rotary Encoder:** For volume control input.
- **OLED Display:** Specifically, an SSD1306 OLED display compatible with the Adafruit SSD1306 library.
- **3D Printed Case:** To house the components neatly. Designs can be found in the repository or on Printables. The Case requires 4 6x3mm round magnets.

Complete writeup and install guide is here: <https://github.com/potatoworld/BigKnob>

Model files



big-knob-bottom.stl



big-knob-knob.stl



big-knob-top.stl

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