Team JSEN - Julia, Szymon, Eddy, & Ny

JSEN Device specifications and dimensions

November 19th, 2019

Outer box size: W\*H\*D - 120mm \* 60mm \* 80mm

Our box has ~~5~~ 4 buttons

(We’re using <https://makeabox.io/> to laser cut the box sides and then put them together to make the box - I’ll add the PDF file for the laser cutter to our folder. I’ll have to modify it to add holes to the box for the buttons.)

Button size: 20mm

~~Headphone jack cutout: 6.8mm per spec sheet for our headphone jack~~

[~~http://anacapa.kycon.com/Pub\_Eng\_Draw/STX-3120-5B.pdf~~](http://anacapa.kycon.com/Pub_Eng_Draw/STX-3120-5B.pdf)

Volume slider cutout:

80 mm \* 4 mm (as we will only have to put the metal blade through the outer box and the yellow plastic piece can go on top)

Tutorial for volume slider: <http://henrysbench.capnfatz.com/henrys-bench/arduino-sensors-and-input/robotale-slide-potentiometer-arduino-tutorial/>

11/23:

~~We’ll likely be~~ We’re making the box out of plywood ~~/ acrylic (? - maybe we have to buy acrylic if we wanna use it idk if the Innovation Center has it)~~

I’ve uploaded the PDF for the laser cutter, and we can adjust the size / cutouts as we progress.

I’ll make a cardboard prototype by our next meeting.

Helpful links:

<http://www.cutlasercut.com/resources/tips-and-advice/what-is-laser-kerf>

<https://coeleveld.com/arduino-potentiometer/>

12/3:

\*\*I’ve uploaded the code for the slide pot volume control into the code folder. Wasn’t sure where exactly to implement it into the main program, so it’s just there for now.

Code adapted from https://github.com/madsci1016/Sparkfun-MP3-Player-Shield-Arduino-Library/blob/f7dd1c2a6edf6a7d2ce7f31a14724627bfef3244/SFEMP3Shield/Examples/FilePlayer/FilePlayer.ino#L295