



Minimal enclosure for Pixel Blaze



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Summary

A tightly wrapped enclosure for the Pixel Blaze v3 LED controller designed for wearable use with attachment points

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This fits the Pixel Blaze v3 LED controller and attached sensor board <https://electromage.com/pixelblaze> in a very small footprint with attachment lugs for wearable uses.

There's holes for the microphone and a pushable button. The short tube on the lid is for fitting a piece of heatshrink over to give the cables some strain relief.

The back is recessed to stick a strip of velcro. the loops for sewing on or small zip ties.

When attaching the sensor board, it must be mounted quite low to the pixel blaze, exactly 1cm from the bottom of the PB to the top of the components on the sensor board.

I used 0.10mm layer height, with Prusament Galaxy Black. The case prints without support standing on it's opening, the lid prints with support and the round tube pointing up. The lid attaches with one short m3 screw

Some light will get through the mic holes to the ambient light sensor, but best to print it in transparent filament if you want to use that.

Model files



case_pblazeenclosure.stl



lid_pblazeenclosure.stl



pbenclosure.3mf

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