

PCB UV Exposure Unit



RCWeinstadt

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Summary

A UV exposure box is an extremely useful piece to make PCBs. I have searched and found that they are too big and too...

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A UV exposure box is an extremely useful piece to make PCBs.

I have searched and found that they are too big and too expensive for my uses. In addition, all the devices require an external power source.

Thereupon I decided to build one that fits better on my needs.

My requirements:

- Compact dimensions
- USB charging
- Long battery runtime
- No buttons or knobs
- Very simple use

So I built a box, with which you can exposure up to 184 PCBs on a single charge!

You need to solder, drill a PCB, print the files, programm an Arduino or a ATTiny and screw everything together.

Detailed instructions can be found on instructables:

<http://www.instructables.com/id/PCB-UV-Exposure-Unit/>

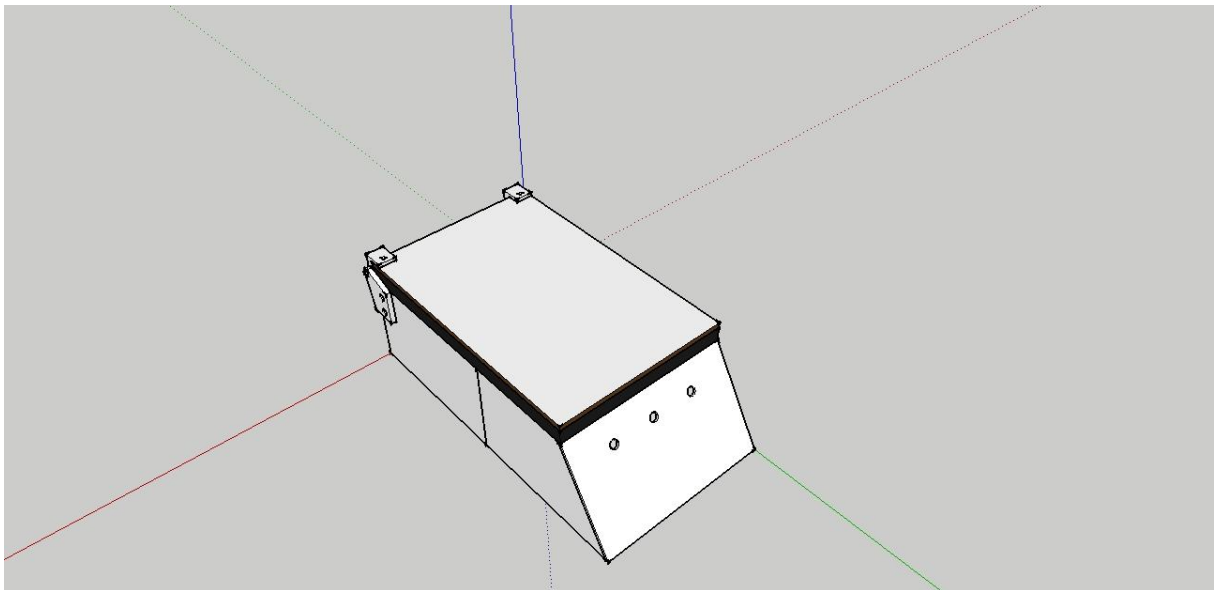
How I Designed This

I've designed all parts in Google SketchUp.

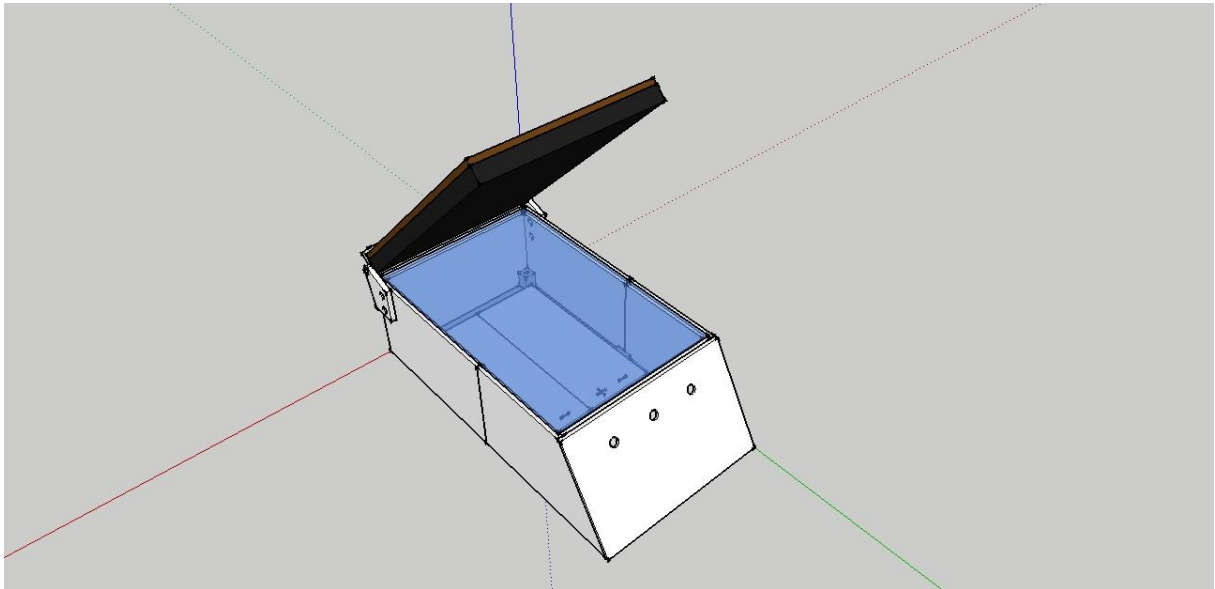
As a guide, I had all components and especially the glass sheet.

The main body part is cut in half, because my small printer has a plate with only 150 x 150mm.

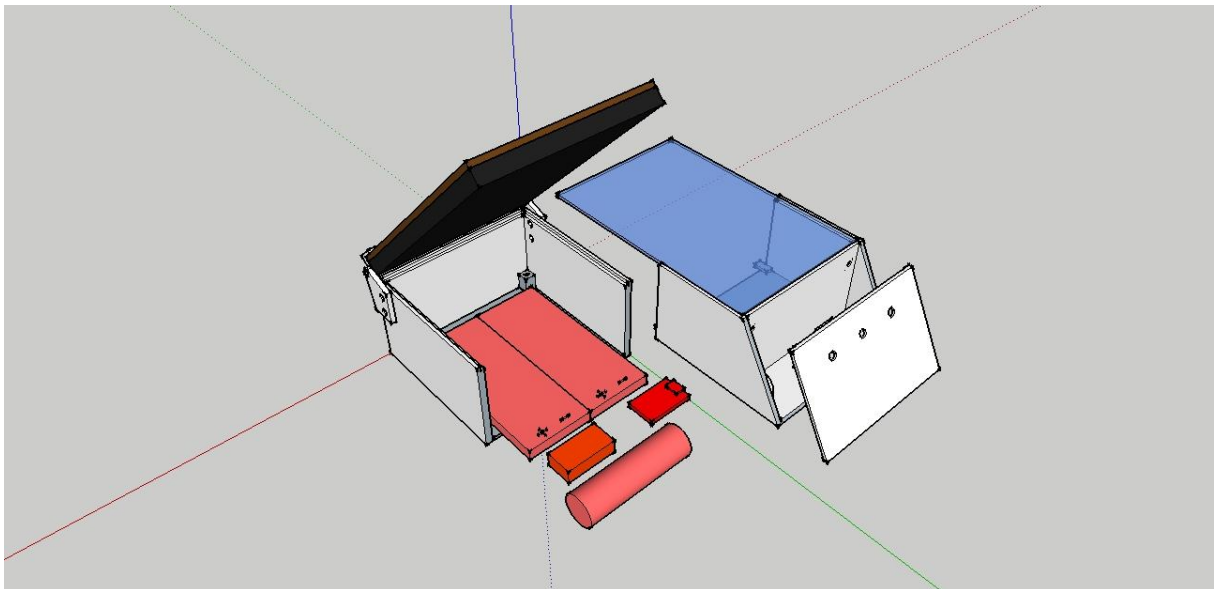
Then I export the STL files, slice and print them on my printer.



The unit with closed cover.

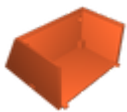


The unit with opend cover.



Category: DIY

Model files



main_front.stl



holder_cover.stl



holder_main.stl



main_rear.stl



front.stl

[Find source .stl files on Thingiverse.com](#)

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