



## Pi 4 case with I2C OLED window



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### Summary

This is my take on a popular case design, It has a small window in the top for an OLED display.

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This is a simple design, I added a 3mf file as the orientation of the case matters as some portions are fairly thin if oriented upright and also saves a bunch on supports. Also make sure supports are turned off in the 'leg' in the case or else the holes will fill up this also goes for the guide holes on the bottom side of the case. (use the support paint function in your slicer to tell it not to support those holes)

Here is the display I used:

[https://www.amazon.com/dp/B0833PF7ML?psc=1&ref=ppx\\_yo2ov\\_dt\\_b\\_product\\_details](https://www.amazon.com/dp/B0833PF7ML?psc=1&ref=ppx_yo2ov_dt_b_product_details)

And here is a tutorial for using the i2c display.

<https://www.the-diy-life.com/add-an-oled-stats-display-to-raspberry-pi-os-bullseye/>

When you use the above tutorial be sure and put:

oled.rotation = 2

After the line "oled = adafruit\_ssd1306.SSD1306\_I2C(....."

So the display will orient properly (if you use the i2c display I linked) I used hot glue for mounting the OLED just a dab in the 4 corners.

The holes in the side of the case are meant for threaded brass inserts for screws, if not using them you will need to drill out the holes a little for 2.5mm screws.

The side with the venting and 4 holes is for a 40mm fan. If you decide to not use it but put a fan on the pi4 you can print 2 of the the sides with the large venting and pi logo as they are interchangeable.

Happy Pi'ng !!

## Model files



**pi4\_screen\_case\_final\_sidea.stl**

☐ Side for 40mm fan to exhaust out.



**pi4\_screen\_case\_final\_sidea\_logo.stl**



**pi4\_screen\_case\_final\_sidea\_logo\_cutout.stl**



**pi4\_screen\_case\_final\_sideb.stl**



**pi4\_screen\_case\_final\_sideb\_powercutout.stl**



## pi4\_screen\_case\_final.stl

📄 My take on a pi case.

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## pi4casefinal.3mf

📄 3mf with painting to prevent support in mounting legs.

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