



PiP 120mm Fan Housing for Rat Rig V-Core 3 Raspberry Pi/Stepper cooling.



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Summary

This is a bracket housing that I designed for my Rat Rig V-Core 3 to cool the Pi. It attaches to the back 3030 extrusion

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Tags: [120mm](#) [120mmfanmount](#) [3030extrusion](#) [cooling](#) [fan](#)
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This is a design to incorporate a 120mm case fan for a Rat Rig V-Core 3 to cool the Raspberry Pi. It attaches to the rear 3030 extrusion with 2 M6 20mm Bolts and M6 3030 T-Slot nuts. It is print in place without supports and hinged to allow one to swing it out of the way to do any work on the wiring of the mainboard and Pi. I printed it with a .4mm nozzle at .25mm layer height, 125% layer width and no supports Superslicer. PLA was optimal as it will not see heat for this purpose. Holes to glue in magnets to keep it securely oriented while in use. Choice to use 6, 8, 10, or 12mm diameter magnets 2mm thick.

Look, If you remix, please leave the text intact. It's a tribute to a friend of mine that is long dead from cancer. He used to write that text on bathroom

walls. It has been spotted hundreds of miles from here over the years and I'm trying to keep it going. Thanks.

-Update 24/5/2022

-Removed original version to leave only the magnet version. You can choose to use the magnets or not. Tightened up tolerances on the hinge. You will now have to enlarge to 100.5% if using a material with shrinkage like ABS or ASA or as it will most likely bind or fuse.

-Update 19/05/2022

Added new holes to incorporate different magnet sizes. I found that the 1.7 thickness was what I had lying around and not common. All magnet sizes are now designed to take 2mm thick magnets. You can chose 6mm, 8mm, 10mm, or 12mm diameter magnets and just choose the holes to glue them into. Hope this helps. I have replaced the magnet version and removed the old selfish one.

-Update 15/05/2022

Included magnets to keep bracket in place. New STL. I modeled it with 6mm x 1.7mm round magnets. At this point it's a CA glue into place thing. I expect to work in a PiP clip rather than magnets.

Model files



pip-120mm-fan-housing-3030-magnet-v3.stl

☐ Uses magnets 6, 8, 10, or 12mm at 2mm thick.



pip-120mm-fan-housing-3030-magnet-v3.step

☐ Uses magnets 6, 8, 10, or 12mm at 2mm thick.

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