Raspberry Pi Camera Mount - Camera Module 3 Version

DocWeebl

VIEW IN BROWSER

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Summary

A remixed camera housing for Sneaks' brilliant Raspberry Pi Camera mount to accommodate the new RasPi Camera 3.

3D Printers > Other Printer Parts & Upgrades

Tags: octoprint raspberrypi raspi octoprintcamera raspicam autofocus v3camera raspicamv3 cameramodule3 raspicam3

A remix of Sneaks excellent 'Articulating Raspberry Pi Camera Mount' - camera housing to suit the new v3 Raspberry Pi camera.

The V3 camera has a much bigger sensor and comes with autofocus- quite a big upgrade from the V2 camera. However, the new sensor is significantly bigger.

I changed the camera cover of Sneaks design (https://www.printables.com/model/3407-articulating-raspberry-pi-camera-mount-for-prusa-m) to allow for the new sensor, and all fits fine.

There are two designs, a plain front, and a version with a hexagon pattern. If you want a dual-colour hex print like the photo, change filament at 1mm and 2.4mm layer heights (roughly, this will depend on you print layer heights - but you know the drill :))

If you already have this setup with a V2 camera, you only need to print a new “RasPi Camera V3 Module Cover” - the back should work fine. My remixed back simply aligns the supports with the mounting holes, but the existing back doesn’t seem to cause interference.

I have uploaded my model of the v3 camera module here in case you want to use it for other models; https://www.printables.com/model/368779-raspberry-pi-camera-module-3

You can check out my other models here: https://www.printables.com/social/194731-docweebl/models

UPDATE 07/02/2023 - I've had a couple of comments that this doesn't fit the wide angle lens version of the camera, and so have added two new files which should suit it according to the documentation. I don't have the wide camera module myself, so can somebody please let me know if the new designs fit okay, or if I need to open up the lens hole a little? Thanks!

UPDATE 08/03/2023 - I have modified “Joe's wood'n 3D”'s https://www.printables.com/model/103898-connector-box-for-rpi-csi-cables/remixes to include a matching hex pattern on the lid case. Link to the hex pattern version here: https://www.printables.com/model/418460-raspi-csi-connector-box-hex-pattern-remix

This remix is based on

Articulating Raspberry Pi Camera Mount for Prusa MK3 and MK2

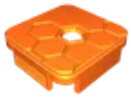
by Sneaks

Model files

raspi-camera-v3-module-back.3mf

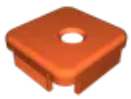
raspi-camera-v3-module-cover.3mf

Standard camera, plain cover



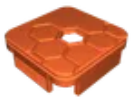
raspi-camera-v3-module-cover-hex.3mf

Standard Camera, hex pattern cover



raspi-camera-v3-wide-angle-module-cover.3mf

Wide angle camera, plain cover



raspi-camera-v3-wide-angle-module-cover-hex.3mf

Wide angle camera, hex pattern cover

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