

Beagle Camera Mount for Ender 3 S1

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VIEW IN BROWSER

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Summary

A system to mount the Mintion Beagle camera on an Ender 3 S1 series printer

3D Printers > Accessories

UPDATE (9 JUL 22): Looks like I messed up the right mount by mirroring it after adding threads, which apparently resulted in a left-hand thread. Hopefully this latest version of the Right Mount fixes that.

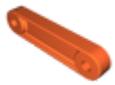
This is a system to mount the Mintion Beagle camera on an Ender 3 S1 series printer. The mount that comes with the camera is a bit bulky for my setup. The only part of the camera system that's used with this system is the camera itself. Just pry off the soft rubber caps concealing the pivot screw and set everything but the camera aside.

The mount shown in the pictures secures to the left front corner of the S1. I printed and installed both it and the mirrored version so I can just switch the camera from one side to the other in a couple of minutes.

I printed this in PLA with 20% Cubic infill. The arm was printed on its side, the pivots tilted down resting on the circular edge and the beveled ends, the mount and head standing straight up, and the screws on their side to maximize thread strength. I used tree supports to make this work. The arm section is 60mm long; you can shrink or stretch it if you need less or more focal length.

Hardware you'll need:
two M5x20mm Button Head screws for each mount to replace the short ones on the S1
two M5x20mm Button Head screws and two M5 hex nuts to attach the arm to the pivots
one M4x25mm Socket Head screw and one M4 hex nut to attach the camera
The printed screws are M10. You may need a tap to chase the threads in the mount and head.

Model files



beagle-cam-arm.stl



beagle-cam-pivot.stl



beagle-cam-left-mount.stl



beagle-cam-head.stl



beagle-cam-screw.stl



beagle-cam-right-mount.stl



right-mount.stl



beagle-cam-system-ii-v28.3mf

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