



## Akaso Focus Mini Projector Vertical Stand for Tracing Images



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### Summary

Vertical stand for the Akaso Focus Mini Projector. Stand aims the projection down at the surface the stand is placed on



24.30 hrs



3 pcs



0.30 mm



0.40 mm



PLA



454 g



Prusa  
MK3/S/S+

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This stand allows you to aim your Akaso Focus Mini Projector down at your work surface. I created this stand so the projector could be used to trace images onto sugar cookies, but it could be used for any task that requires aiming the projector down to trace an image. I originally tried to use a gooseneck style stand I purchased online, but that stand shook significantly if the work surface was bumped at all. This stand doesn't shake nearly as much.

## Features

- Screw-less assembly
- Access to all button and ports on the projector
- Projector cooling fans and exhaust are not blocked
- Easy installation and removal of projector
- Cavity in the foot that allows weight to be added during the print
  - Weight helps the stand remain stationary during use
- Projector is aimed perpendicularly at the work surface to minimize distortion in projected image
  - No more aiming your your projector to get an orthogonal image
- Designed to fit on a Prusa MK3 buildplate

## Print Settings

This stand does require supports when printing the arm and cage. The foot can be printed without supports.

I printed all the parts using the Prusaslicer 0.3mm layer height profile for the MK3S+. The only changes I made were to turn on the auto-generated support options on the arm and cage models.

## Assembly

After removing supports, the three parts slide together easily. The connection between the arm and the cage might be a little snug if your supported surfaces are less than smooth. I designed a little extra tolerance in those connections to be safe, but mine still fits a bit tight.

If you don't need to disassemble your stand for transport or storage, you can add a bit of super glue between the connections to make the assembly permanent.

## Model files



**cage.stl**

☐ Needs supports



**arm.stl**

☐ Needs supports



### foot.stl

☐ Does not need supports. Needs a pause to add weight into cavity.

## Print files



### arm\_03mm\_pla\_mk3s\_9h13m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.30 mm ⌚ 9.22 hrs ⚖️ 160 g 🖨️ Prusa MK3/S/S+

☐ Sliced for MK3S+ at 0.3mm layer height. Supports added.



### cage\_03mm\_pla\_mk3s\_6h34m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.30 mm ⌚ 6.57 hrs ⚖️ 88 g 🖨️ Prusa MK3/S/S+

☐ Sliced for MK3S+ at 0.3mm layer height. Supports added.



### foot\_03mm\_pla\_mk3s\_8h30m.gcode

🌀 PLA 🌀 0.40 mm ≡ 0.30 mm ⌚ 8.51 hrs ⚖️ 206 g 🖨️ Prusa MK3/S/S+

☐ Sliced for MK3S+ at 0.3mm layer height. Pause added to allow for installation of weight.

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