

## Binocular Tripod Mount (with Knob)



kaje

[VIEW IN BROWSER](#)

updated 12. 8. 2022 | published 12. 8. 2022

### Summary

Use this to mount your binoculars on a tripod.



3.78 hrs



2 pcs



0.20 mm



0.40 mm



PET



50 g



Prusa  
MK3/S/S+

[Hobby & Makers](#) > [Mechanical Parts](#)

Tags: [adapter](#)

This mounting adapter was designed for mounting to a standard camera tripod. Note that this adapter requires that your binoculars have a central 1/4"-20 threaded mounting hole (see photos). The angled adapter moves the balance point for large binoculars. The design requires some additional parts as shown in the photo :

- 1/4"-20 x 2" hex bolt
- washer
- 1/4"-20 brass threaded insert

The length of the hex bolt in the knob should be long enough to screw strongly into the binoculars, but not so long that it bottoms out. The 2"

length should work for most binoculars, but check to make sure so that you do not damage your binoculars.

The brass threaded insert is screwed into the bottom of the adapter; I recommend using epoxy cement in addition to just screwing it in. The 1/4" hex bolt fits into the tightening knob - I suggest using some glue here as well, although it is not strictly necessary.

I strength tested an earlier version this design by inserting 1/4" bolts held in a vise, and applying very strong bending force. The part did not break, but the insert did pull loose with excessive force (this is why I recommend the addition of epoxy cement - better safe than sorry).

## Print Instructions

Print the parts in PETG using the gcode or 3mf files provided; in general :

- knob - 5 perimeters, 0% infill
- adapter - 5 perimeters, 20% rectilinear infill

## CAD

The OnShape 3D CAD files for this are here :

<https://cad.onshape.com/documents/49f75d138ba989d2b02f964f/w/ae08d9b49ed21d6cee82eb5e/e/134d88575df0b6fd0afbd27d>

## Model files



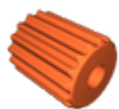
**mount04-base.3mf**



**mount04-knob.3mf**



**mount04-base.stl**



**mount04-knob.stl**

## Print files



**mount04-base\_02mm\_petg\_mk3s\_3h1m.gcode**

PET 0.40 mm 0.20 mm 3.01 hrs 43 g Prusa MK3/S/S+



**mount04-knob\_02mm\_petg\_mk3s\_46m.gcode**

PET 0.40 mm 0.20 mm 0.77 hrs 7 g Prusa MK3/S/S+

[Find source .stl files on Thingiverse.com](#)

## License

This work is licensed under a  
**Creative Commons (International License)**



**Public Domain**

- ✓ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition