



Magnetic Quick Connector Mount



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Summary

A magnetic mounting adaptor for accessories compatible with 1/4 inch UNC mounts (lights/cameras etc)

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Tags: [camera](#) [light](#) [magnet](#) [tripodmount](#) [lighting](#) [quarter magnetic](#) [photography](#) [adaptor](#)

Required Parts:

For the mounts:

- 6x1mm neodymium magnets x 12 or
- 6x2mm neodymium magnets x 12 or
- 6x3mm neodymium magnets x 12
- 1/4-20 UNC hex bolt x 1 (I've used bolts with 1/2 inch length)
- 1/4-20 UNC hex nut

For the spacers:

- 1/4-20 UNC hex nut or
- 1/4-20 UNC half hex nut

Instructions:

*****NOTE: I recommend using 6x2mm or 6x3mm magnets for optimal strength*****

Printing:

- No supports required.
- I used a 0.4mm nozzle 0.2mm for the mounts and 0.15mm for the spacers.
- For the spacers enable fuzzy skin on the outside walls for a bit of extra grip (I don't know how to create surface texture in CAD, sorry!)
- I printed in PLA
- I recommend using a brim for all parts. I had a failed print on one of the mounting parts without a brim.

Assembly:

- Clean up the magnet cut-outs.
- Add some CA glue into the cut-outs then press-fit the magnets.
- Press fit the hex bolt and nuts. You may need to thread the bolt through a bit first then tighten a nut on it to pull it through, or can just drill out the hole.
- Don't forget to orient the magnets correctly. I did. [Glenovits3D's Magnet Orientation Tool](#) is super helpful!

Model files

 **6mm x 1mm Magnet** 2 files

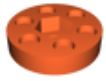
 **round-base-side-6x1mm.stl**

 **round-light-side-6x1mm.stl**

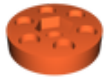


6mm x 2mm Magnet

2 files



round-base-side-6x2mm.stl

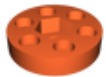


round-light-side-6x2mm.stl

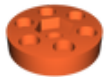


6mm x 3mm Magnet

2 files



round-base-side-6x3mm.stl



round-light-side-6x3mm.stl



Spacers 20mm Diameter

2 files



spacer-full-height-20mm.stl

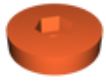


spacer-half-height-20mm.stl

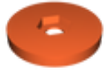


Spacers 30mm Diameter

2 files



spacer-full-height-30mm.stl



spacer-half-height-30mm.stl

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