



Newtonian telescope diagonal mount



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Summary

A diagonal holder for a reflecting telescope, designed for a diagonal of 35mm or larger.

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A diagonal holder for a reflecting telescope, designed for a diagonal of 35mm or larger.

Revision:

Increased clearance on bolt holes to match ISO standard for close clearance

Increased clearance on nut recesses

Added nut recesses in top piece for M4 nuts

Print Settings

Printer Brand:

ANET

Printer:

ANET A8

Rafts:

No

Supports:

No

Resolution:

0.2mm

Infill:

50% or more

Notes:

The prototype in the photo is made from ABS and assembled with the following hardware:

- 1 - M6 X 50mm hex head bolt (central shaft)
- 3 - M6 washers
- 2 - M6 hex nuts
- 1 - M6 wing nut
- 3 - M4 X 35mm pan head screws (mirror adjustment)
- 3 - M4 X 8mm pan head screws (vane attachments)
- 12 - M4 washers
- 6 - M4 hex nuts
- 3 - hotbed leveling compression springs, available here:

<https://www.amazon.com/Ocr-Compression-Printer-Extruder-Accessories/dp/B01HO33RBY/>

For the vanes I recommend brass strips available from most hobby stores.

Category: Physics & Astronomy

Model files

mirror_mount_v21.stl

top_piece_v3.stl

middle_piece_v3.stl

top_piece_v4.stl

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

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