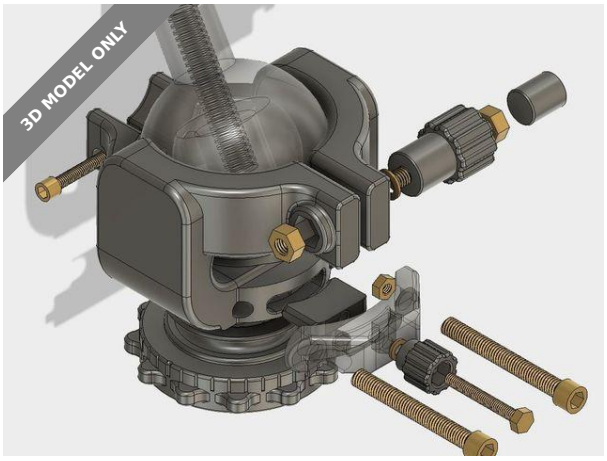


Heavy Duty Tripod Ball Head

Empiricus

VIEW IN BROWSER

updated 12. 4. 2022 | published 16. 10. 2021

Summary

Heavy duty tripod ball head for small and large format cameras. Needed something for a 6x7 camera and DSLRs. I printed...

Gadgets > Photo & Video

Tags: cameramount photography largeformat dslr tripodadapter ballhead

Heavy duty tripod ball head for small and large format cameras. Needed something for a 6x7 camera and DSLRs.

I printed this in Carbon fiber PETG. Make sure that there are no supports placed in the threads as this will mess them up. Firmly push the ball into the holder before installing any screws.You may have to cut the 3/8 threads after printing again.

If you are paranoid as I am, you can place a 2 inch 3/8-16 rod into the neck for extra
rigidity. Otherwise you can use standard 1/4 and 3/8 photography adapters to ad a quick release. Optinional: to prevent stripping of the bottom thread use Lower part 58 and a 3/8" Female To 5/8" Male Thread adapter.
The shown quick release and plates are at thing 2450904 and 2439918.

You will need:
2x M6 5cm round head internal Allen hex
1x M6 4cm Hex head
1x M4 3cm round head internal Allen hex
1x M4 3cm Hex head
1x M6 washer
1xM4 washer
1x M4 nut
1x 3/8-16 2 inch Socket Set Screw Allen Hex Drive Cup Point
1x 3/8" Female To 5/8" Male Thread adapter (common microphone adapter)

Updated the ANSI screw threads for better printing and compatibility.

Empiricus@Dremomys

Print Settings

Printer Brand:

Wanhao

Printer:

Duplicator 6

Resolution:

0.150

Infill:

30

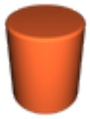
Notes:

I used carbon fiber PETG 5 layers all around, regular PETG or ABS may work depending on the weight of your camera. PLA might be too stiff for the ball to fit into the holder.

Category: Camera

Model files

stop.stl



screw_plug.stl

upper_part_1.stl

ball_6cm_38-16.stl

lower_part_58-27.stl

upper_part_2.stl

lower_part_38-16.stl

screwtop.stl

screwtop_2.stl

Find source .stl files on Thingiverse.com

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