



Open Camera: Focus Helicoid

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Summary

Work in progress for a focus helicoid.

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Tags: [camera](#) [lens](#) [mechanism](#) [focus](#) [helicoid](#)
[opencamera](#)

230425: v0.1 inital version

Work in progress for a proof of concept that a focus helicoid can be made by 3D printing. Currently printed in 0.1 layer height in eSun ABS+ on a Voron Trident. This version should result in ~6mm movement and is intended for a Nikkor 75mm lens in a Copal 0 shutter. This version uses 7X*3 ISO Metric Threads. The thread sides have been each offset by -0.1mm and the sharp edges rounded with a 0.15mm fillet to give more play in the assembly. This has to be verified if it works.

Model files



v0.1 230425 initial version

5 files



opencamera_helicoid_front.stl

☐ Front element with Copal 0 bore



opencamera_helicoid_center.stl

☐ Center element



opencamera_helicoid_back.stl

☐ Back element with mounting flange



230425_opencamera_helicoid_01.step



230425_opencamera_helicoid_01.f3d

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