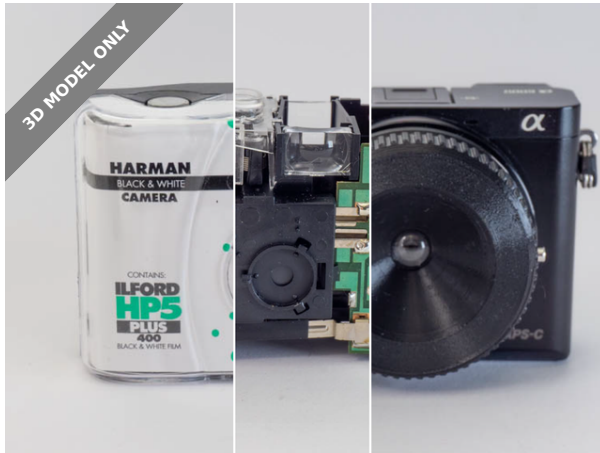




Disposable Camera Lens Adapter



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Summary

Use the plastic lenses from disposable cameras on your Sony E-mount camera.

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They're easy, they're cheap and they can be a lot of fun: disposable cameras.

If you still got one around, you can remove the plastic lens from the camera housing and print a lens holder for a Sony E-mount camera.

All you need is a bit of black filament, some glue and a disposable camera.

If you are using a single lens you'll get a lens with a focal length of ~35mm on a full frame camera and about 50mm on APS-C. If you've got two disposable cameras around you can build the double lens assembly with 17mm (full frame) or 26mm (APS-C):



single lens



double lens

You can find more info here: volzo.de/thing/recyclinglenses

Assembly info:

Print settings: 0.4mm nozzle or smaller. 0.1-0.2mm layer size is okay.
Increase cooling if necessary for the internal threads.



Attach the e-mount flange (1) to the inner ring (2). You can do this either with a bit of superglue or three M2 DIN965 6mm screws (3). There is a tiny tooth in the inner ring that fits into a gap in the flange, so there is only one way to fit these two parts together.



Then grab the focus ring (4) and place the lens (5) in the center. The lens has one side which is curved outwards (convex) and one side which is curved inwards (concave), but on the concave side, the lens could lay flat on a table. Place the lens in the focus ring so the curved side (convex) is pointing outwards to the front.



Grab the lens nut (6) and screw it on the threads around the lens. The lens nut should now press against the “flat” (concave) side of the lens.

Screw the focus ring (4) on the inner ring (2) and you’re done. The very last step is optional. If you’ve got another M2 screw you can screw it into the focus ring (without touching the inner ring) to create a hard stop for

the focus ring. Then it's not possible anymore to unscrew the focus ring by accident and there is a reliable "focus at infinity" stop.



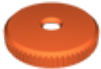
For the double-lens variant you just need to replace the focus ring and add the 3d-printed shim part in between the first and the second lens. The two lenses should be placed like a mirror (flat side against flat side with the shim between them).

That's it! Lens is done.

Model files

 **single lens** 2 files

 **singlelens_lensnut.stl**

 **singlelens_focusing.stl**



double lens

3 files



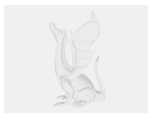
doublelens_lensnut.stl



doublelens_apertureshim.stl



doublelens_focusring.stl



recyclinglenses.step



recyclinglenses.f3d



innerring.stl



emountflange.stl

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