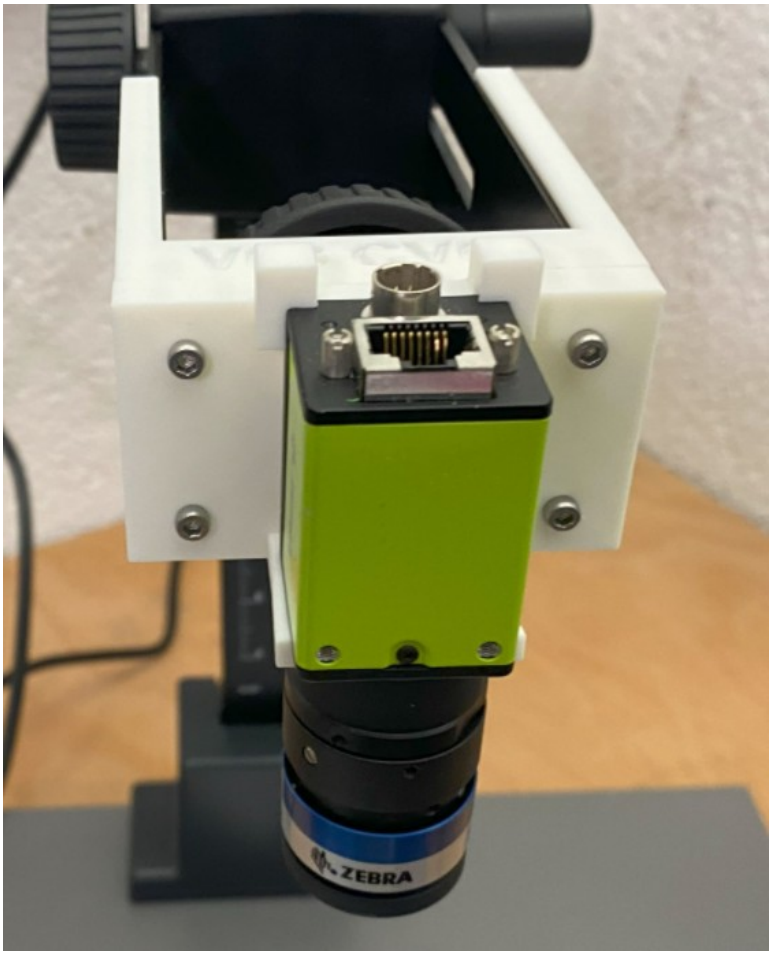
CV60 Camera Holder

Version 1.0



Project Goals

Create a holder to use the CV60 on a Kaiserstand. The main goal is to allow a quick mount / dismount of the camera without tools.

This is possible because the camera is light, but in any case using high resolution lenses can be challenging.

The holder should work well for USB and for Ethernet cameras.

Design

I get some trouble making a good vertical alignment and finally I solved it using a mounting plate. Only on one side the alignment is perfect, on the other side is off by 2 or 3 degrees, but it is visible.

Plate Sketch

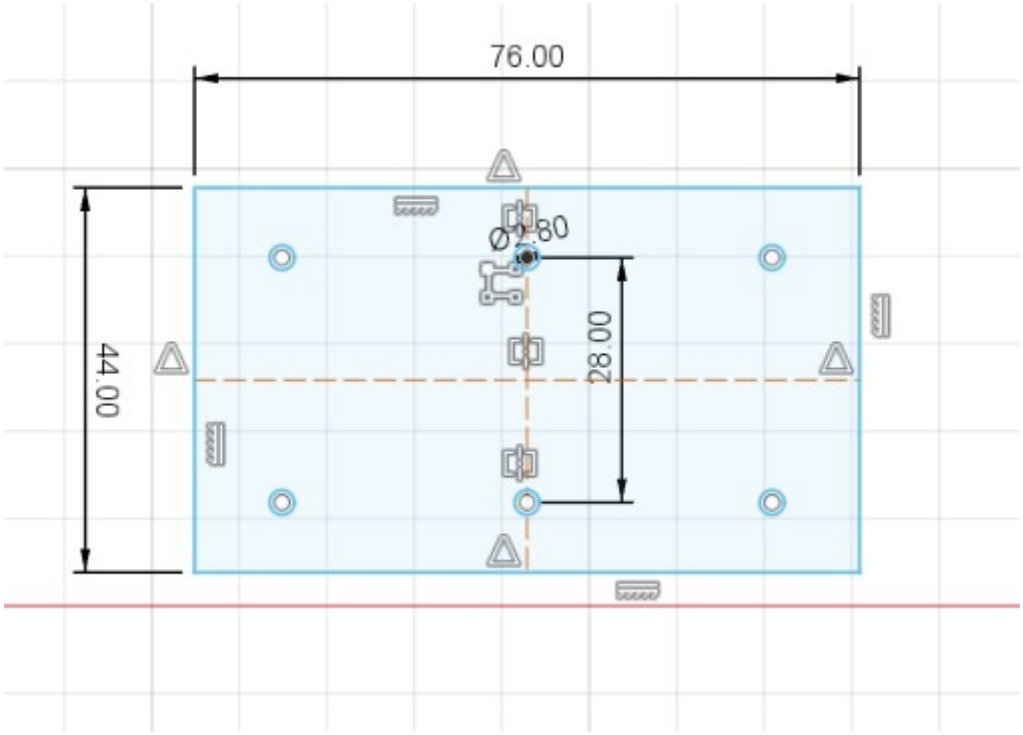
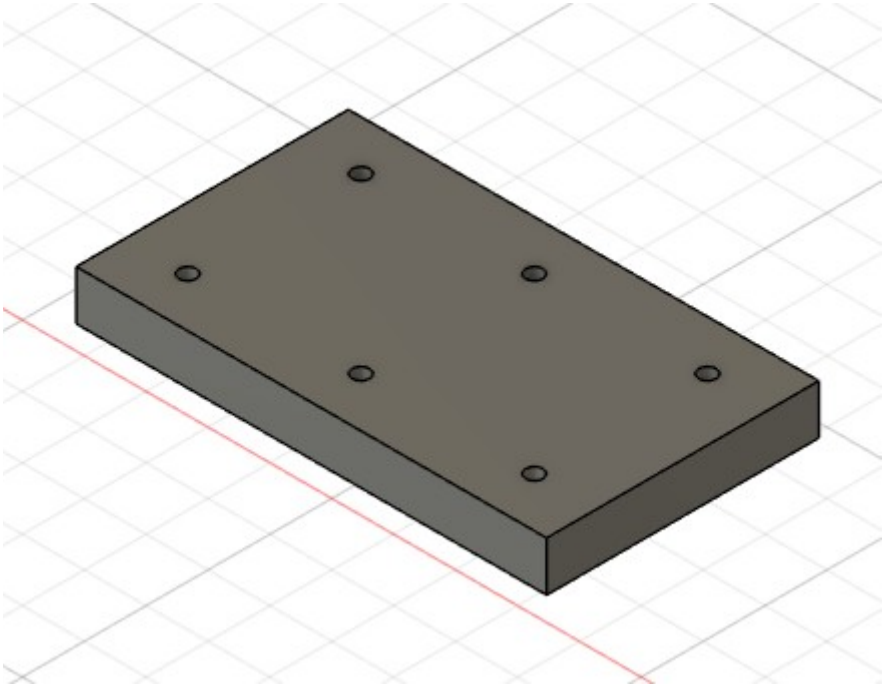
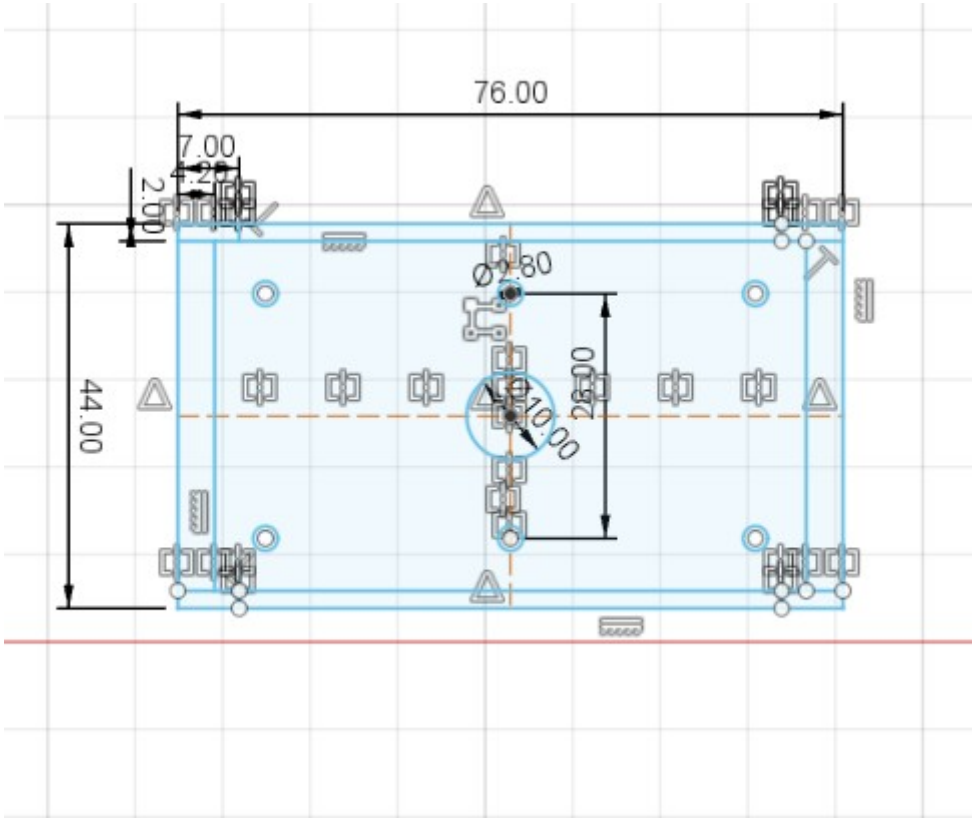


Plate 3D Model

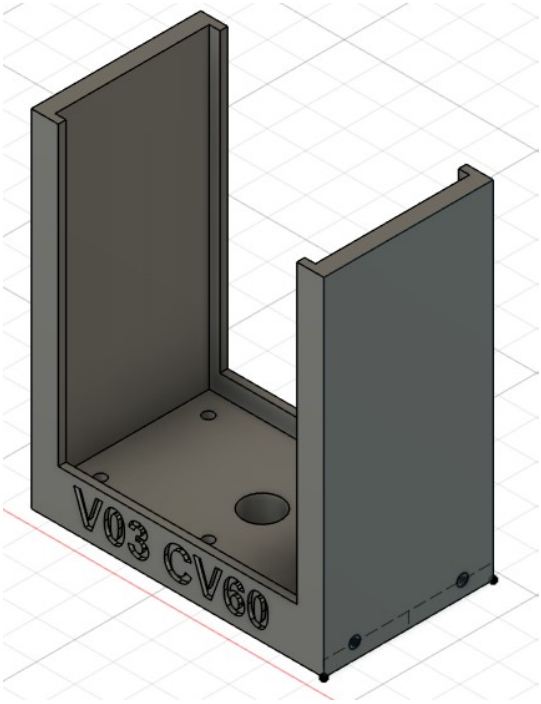


Kaiserstand Bracket sketch

This is the same as Kaiserstand V3.0 but the front plate holes are 2.80 mm for a direct screw connection without heat set insert.

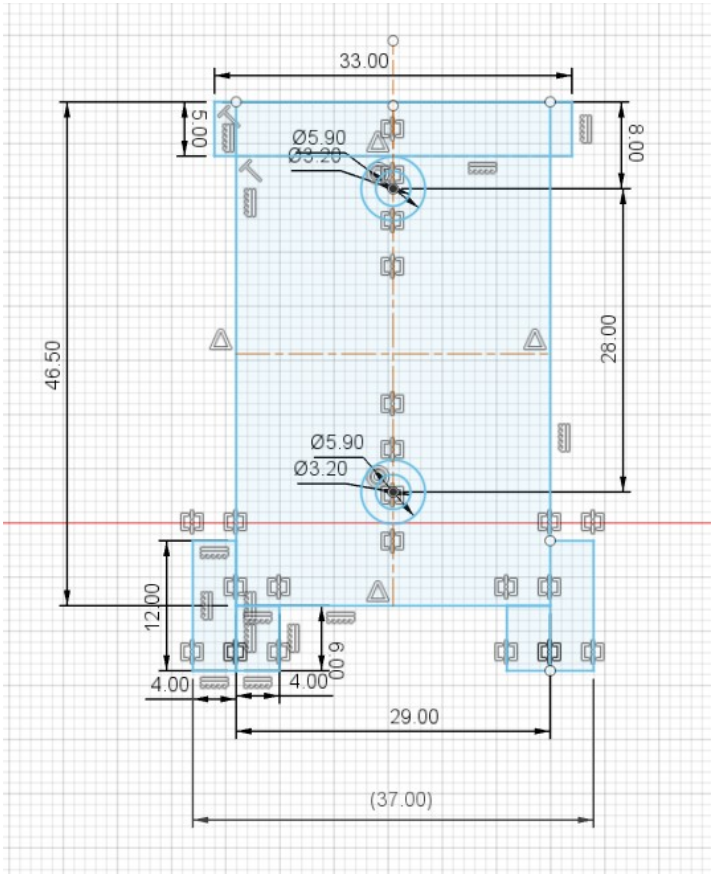


Kaiserstand 3D Model

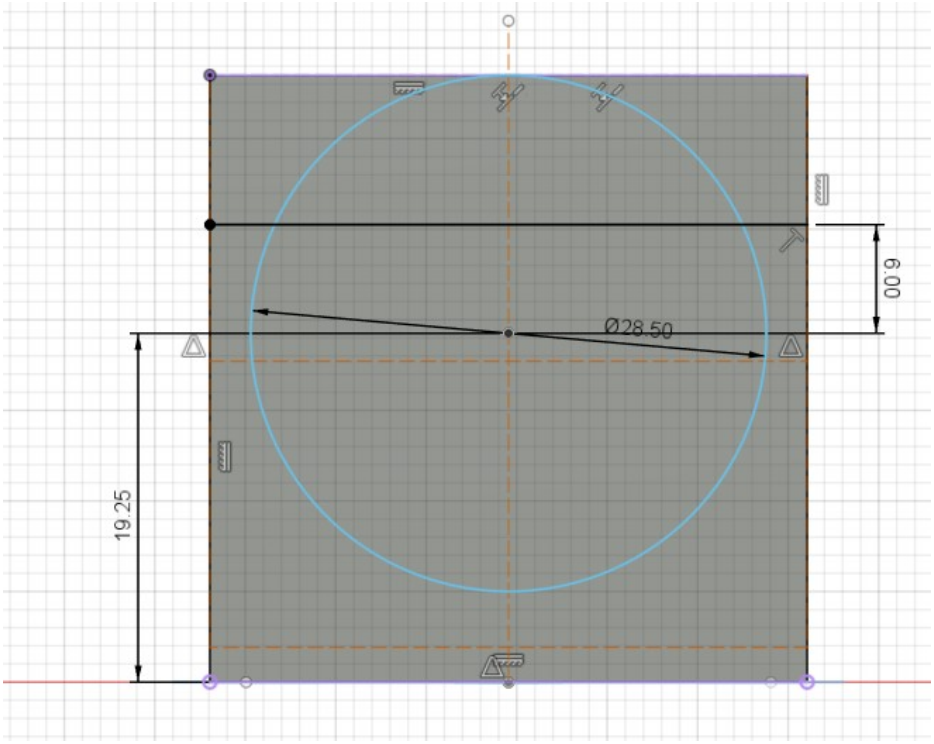


Camera Holder Sketch

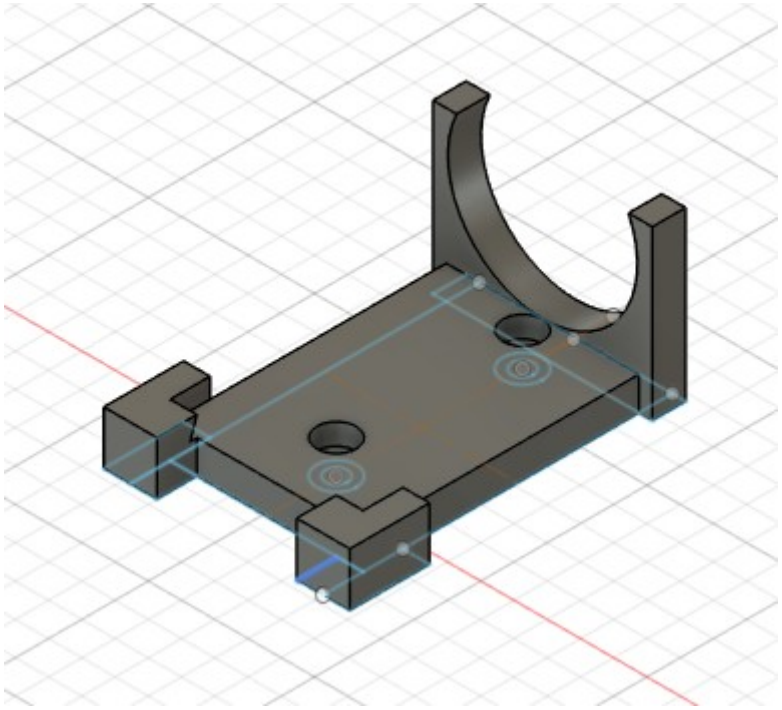
This is the camera holder and basically it keeps the camera in place using some pins in the back and a semi circular bracket in the front, in the are of C-Mount thread



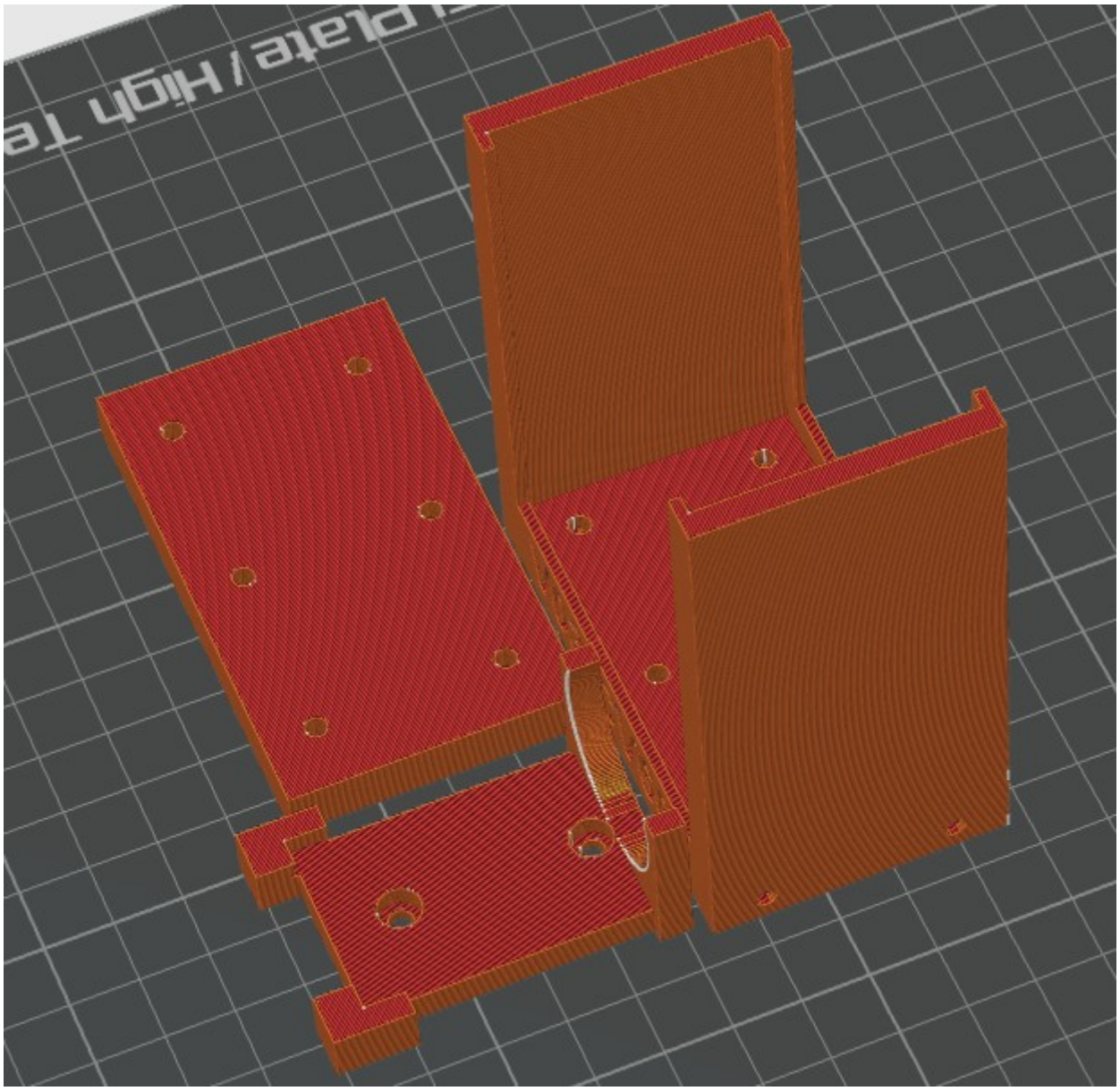
Camera Holder front scketch



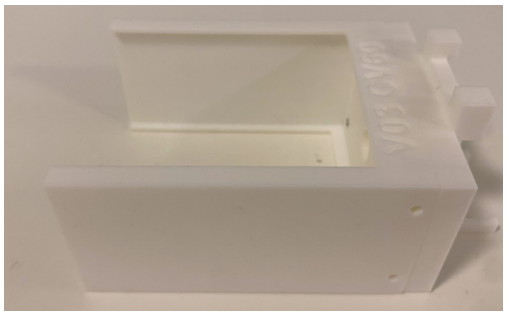
Camera Holder 3D Model

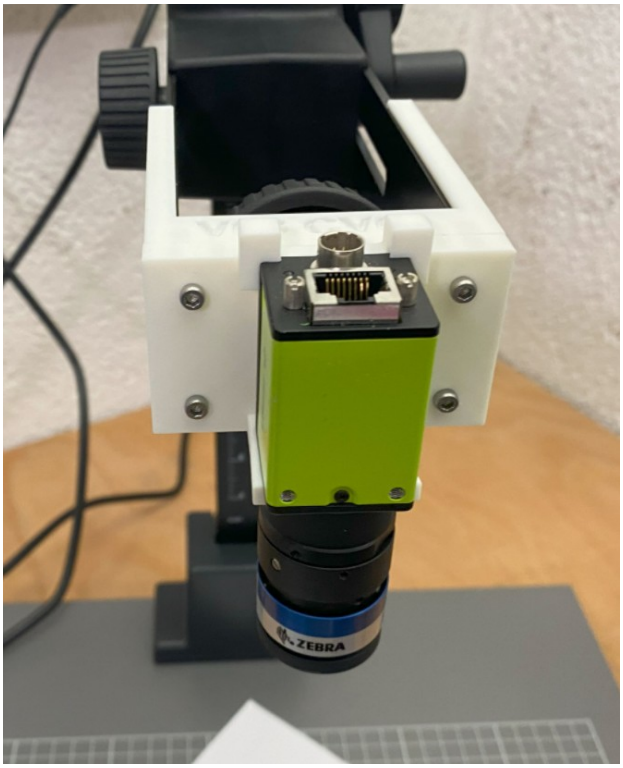


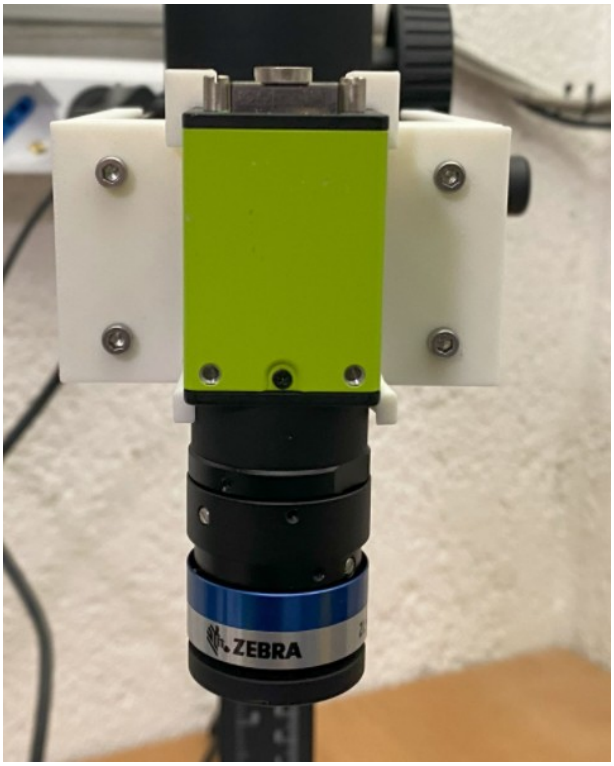
3D Printer KIT Layout



Final Result



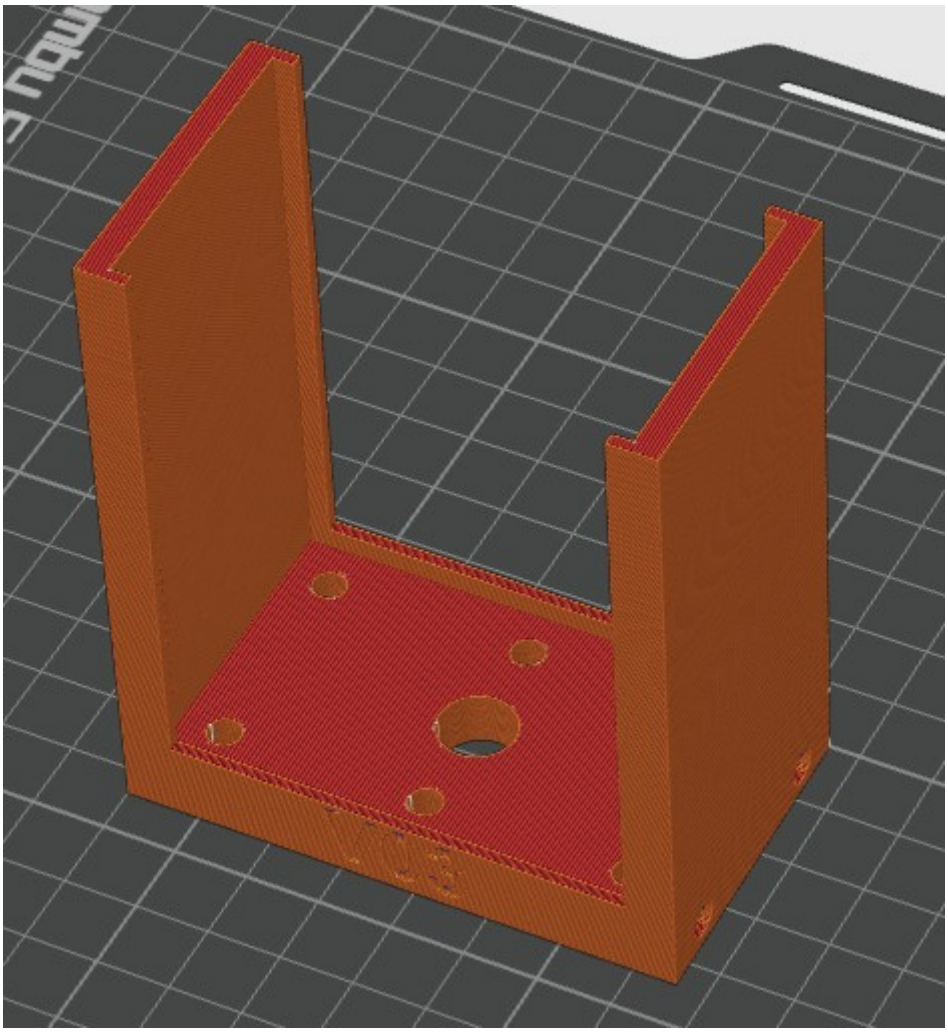




Reference

KaiserStandBracket 3.0

The Kaiserstand Bracket is based on KaiserStandBracket 3.0



CV60 Camera

This is a camera from Zebra. From https://www.zebra.com/content/dam/support-dam/en/documentation/unrestricted/guide/product/cv60-prg-en.pdf I get the device dimensions.

Figure 16 CV60 Dimensions