



## Motor focus for Sigma APO 70-300mm lens (Ardufocus, 28BYJ-48)



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VIEW IN BROWSER

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### Summary

Ardufocus based motor focus assembly for the Sigma APO 70-300mm lens. Main use is for astronomical imaging.

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The motor is a 28BYJ-48, driven by a ULN2003 and Arduino Nano. I use the 5V version of the motor, which can be powered over USB - the mechanical load is minimal.

I use an inverted GT2 belt glued to the focuser of the Sigma lens. I recommend to use a metal pulley on the motor (although a printed one should work). The required travel range is minimal (2-3mm) so I use this rather bulky belt-coupler for the driving belt:

<https://www.thingiverse.com/thing:40710>

All screws and nuts are M3.

Some finishing touches are missing (like a top-cover for the lens assembly). I will add them in due time.

# Model files



**sigma\_70-300mm-apo\_focuser-lens-assembly.stl**



**ardufocus\_box-lower-case.stl**



**ardufocus\_box-upper-lid.stl**

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