

Tilt Adapter Design MK3  
Robert Brown, August 2012

Based on the previous designs posted on WSO, here is my latest adapted version.

1. I took a 1.25" to CS mount adapter and cut it basically in half, leaving enough of the 1.25" barrel to fit into the diagonal/barlow securely
2. Next, I cut some aluminium plate, 500mm wide by 6mm thick, and cut two square pieces (500x500).
3. I then marked the center in each plate
4. I mounted each plate in a 4-jaw chuck and bored the center out to just below 1.25" (this gives a tight interference fit)
5. In one plate I tapped in the 1.25" barrel till it was flush, then the other plate the 1.25" barrel to cs mount (again flush)
6. I then marked and drilled 4 corner holes for the adjustment screws, they are 6mm screws, I drilled the bottom plate a little larger and the top plate 5mm and threaded the 4 holes 6mm thread
7. I used a 3mm rubber washer cut to size to fit between the two plates
8. I then screwed the two plates together – finished
9. The amount of back focus you can see is minimal – probably less than 5mm

Notes:

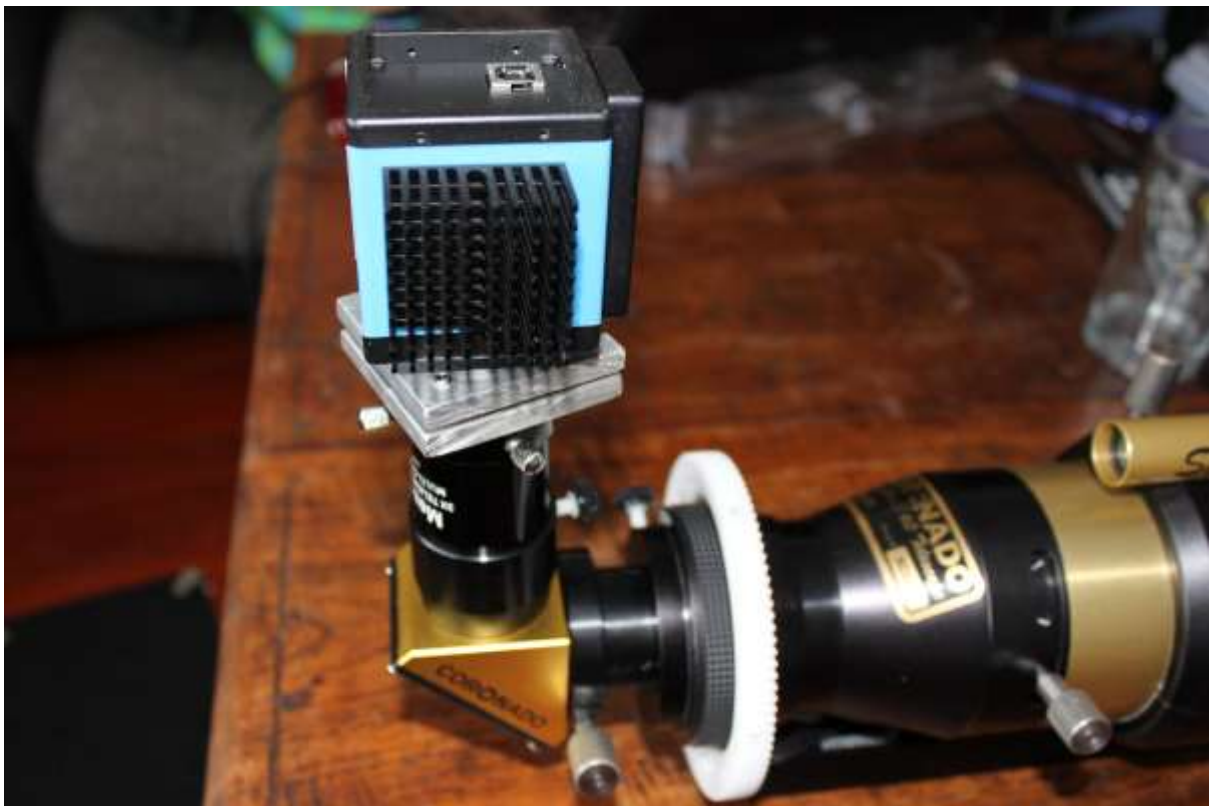
I will get a CS mount lock ring so I can position the camera square to the plate.



Finished – 1.25" barrel



Finished – CS mount – screws direct into DMK



Mounted and fitted on SolarMax and Meade 3x barlow.



You can see that it takes up about the same as a 1.25" barrel!