

INSTRUCTION MANUAL

3" ASA-Focuser (ASA-OK3)

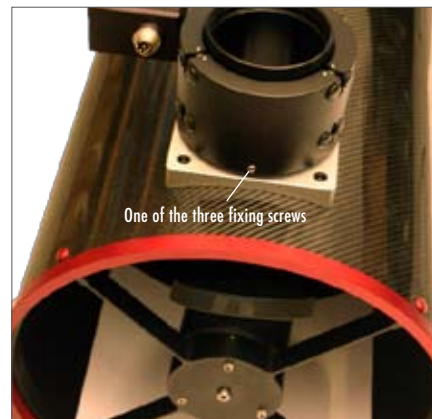


This focuser is standard with all ASA-Astrographs but can also be purchased as a stand-alone for other telescopes.

The focuser is equipped with a stepper motor, USB Interface and supported by ASCOM and MAXIM DL drivers. Six focuser bearings assure perfect operation without flexure.



The ASA-OK3 consist of the focuser itself (1), the power supply (2), the red star-wheel (3), the extension tube (4), the 2" adapter (5) and the camera adapter (6).



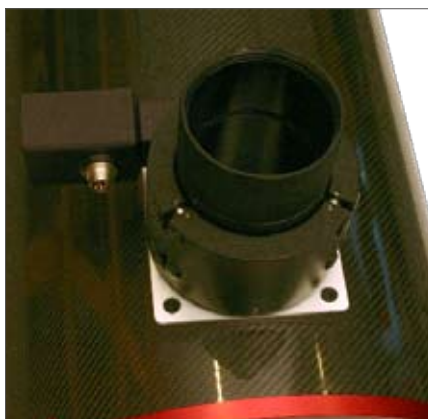
Assembly of the focuser (ASA-OK3) on the mounting plate is accomplished with the three screws (M6x10 DIN913 SW=3mm) on the ASA-OK3. Insert a white paper sheet into the telescope tube to verify alignment of the draw tube within the focuser.



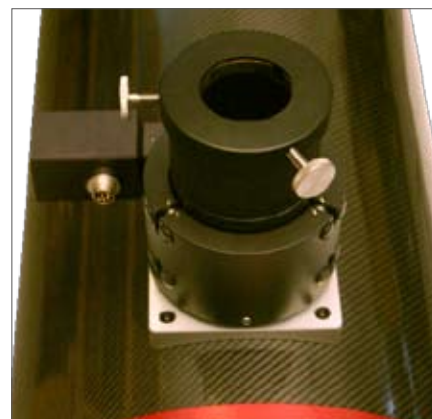
Be attend to receive a uniform space between focuser drawtube and focuser housing

Be careful to maintain uniform spacing between the focuser drawtube and the focuser housing while fixing the focuser with the three screws on the focuser mounting plate. The white paper sheet will help you to judge the spacing uniformity.

New ASA Astrographs are delivered with the ASA-OK3 already assembled on the mounting plate.



Now attach the extension tube to the drawtube. You need the extension tube to reach focus with the 3" Wynne Corrector and with the 2" Barlow. With the application of the 3" Reducer Corrector do not use the extension tube. We recommend coating the threads of the extension tube occasionally with silicone spray.



Next, collimate your Astrograph with 2" tools, first screwing the provided adapter on the ASA-OK3. The Astrograph's primary mirror is provided with the Cats Eye triangle. We recommend ordering the Telecat XL and the Autocollimator XL (www.catseyecollimation.com). Our Astrographs are supplied with detailed instructions for collimation, which are also available on the ASA website.



Attach your camera adapter with the provided six screws (M3x10DIN912 SW=2,5mm) to the flange of the corrector. Then mount the red "star wheel" (PK3-10) so that the threads point toward the corrector. Finally, attach your camera to the camera adapter. One of the three fixing screws. Be attend to receive a uniform space between focuser.



The camera adapter for filter wheels with a 3" connection consists of two parts. Screw the second part with the provided screws (M3x10 DIN7991 SW=2mm screws) to the first part after you have attached the red star-wheel.



Connect your camera/filter wheel assembly to the camera adapter. When using a heavy camera, we recommend assembling the focuser extension tube not initially onto the focuser, but directly onto the star wheel. Then you can screw the unit over the extension tube and onto the focuser.



With lighter cameras, it is sufficient to insert the corrector together with the camera into the ASA-OK3 and carefully turn the star-wheel clockwise until the unit is tightened onto the OK3.



If your imaging device is a Canon DSLR camera you will be provided with a star-wheel which allows sufficient distance between the focuser assembly and the viewfinder of the camera for most Canon models. However, for technical reasons involving Canon design, we are not able to accommodate the 300/350D and 400/450 D models. Owners of these models may modify the viewfinder to fit the OK3 assembly.

ATTENTION:
Please contact ASA in advance to verify that your DSLR-camera can be attached without problems to the OK3!



For the Barlow, ASA offers an optional adapter tube. Turn over the red star wheel. Assemble the camera adapter which you own for the use of the 3" Wynneconnector with the six M3 screws to the Barlow adapter tube. Then connect the Barlow over the t-thread with the adapter tube and follow up with the same procedure as you are be used to something. Don't forget to attach your extension tube onto the focuser!

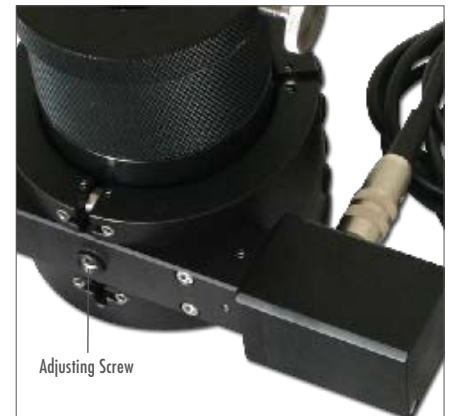


Power Supply

Connect the Power supply cable to your power source (9-15 Volt 2 Amps are required). Connect the USB cable with your PC/notebook. Connect the motor cable to the focuser himself.

PIN configuration for electronic power supply:

PIN 1 = 9-15V, Plus
PIN 3 = Ground, Minus



Installation of the Software:

You can use the **ASA-Software** www.astrosysteme.at/eng/focuser.html for focusing as well as our **Plug-in** www.astrooptik.com/downloads/ASAFocusENG.zip for MAXIM DL and FOCUS MAX.

Instruction how to install the ASA-OK3 software:

- Install ASA-OK3 software and the USB driver: www.astrosysteme.at/eng/focuser.html
- Connect focuser with the ASA-OK3 software
- Select the highest comport under settings/system settings
- Close (now the comport is registered)
- Start again
- Select Sync to check if the focuser moves

Instruction how to install des ASA-OK3 focuser driver:

- Download the Driver for the ASA focuser: www.astrooptik.com/downloads/ASAFocusENG.zip
- Install
- Select ASA Register and select the same comport you have already registered with the OK3 software
- Now the ASA focuser appears at Focus Max and Maxim

Tips:

- One step size with the OK3 is 0,85 micrometer = 0,00085 mm. You will need at least 20 steps near focus to notice changes on focuser values.
- The bearings of the ASA-OK3 are adjusted by the factory such that they can be operated with heavy weight CCD-cameras.
In case that the bearings have to be adjusted please contact ASA: office@astrosysteme.at
Please specify the problem you have and we will immediately instruct you how to adjust the bearings.
- The only adjusting screw one can apply without arouse any trouble is the screw retaining the drive shaft (see image). You can adjust on that screw with the focuser loaded with the weight of your camera. Try it as long as the focuser tube doesn't slip but however move the camera in and out without problem.
- Focusing can be taken not only with the arrow keys of the ASA-OK3-Software but also with the arrow keys on your computer keyboard.