



WILLIAM OPTICS

WIFD REDCAT 71 MANUAL



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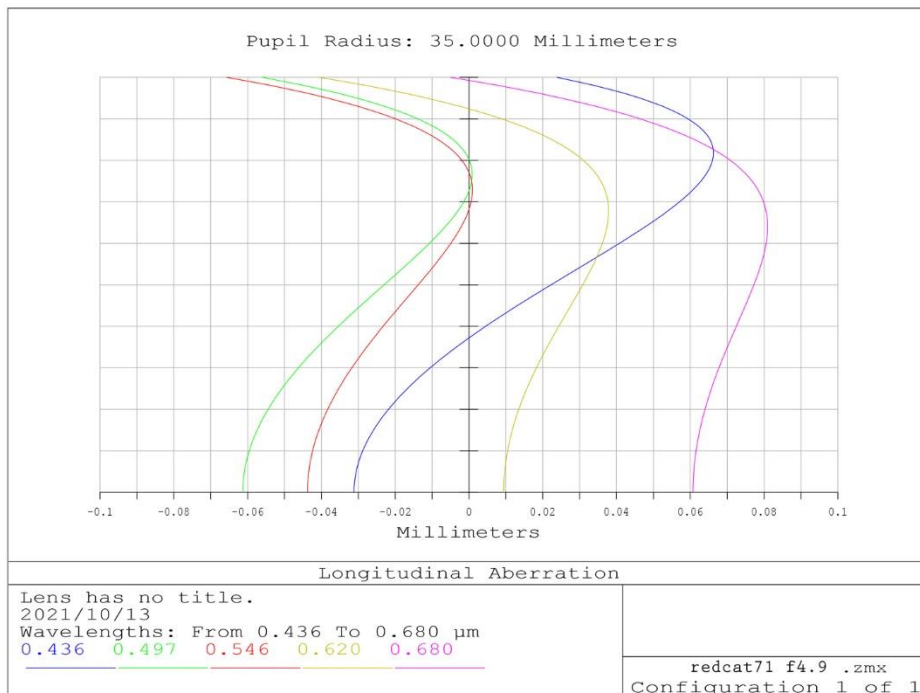
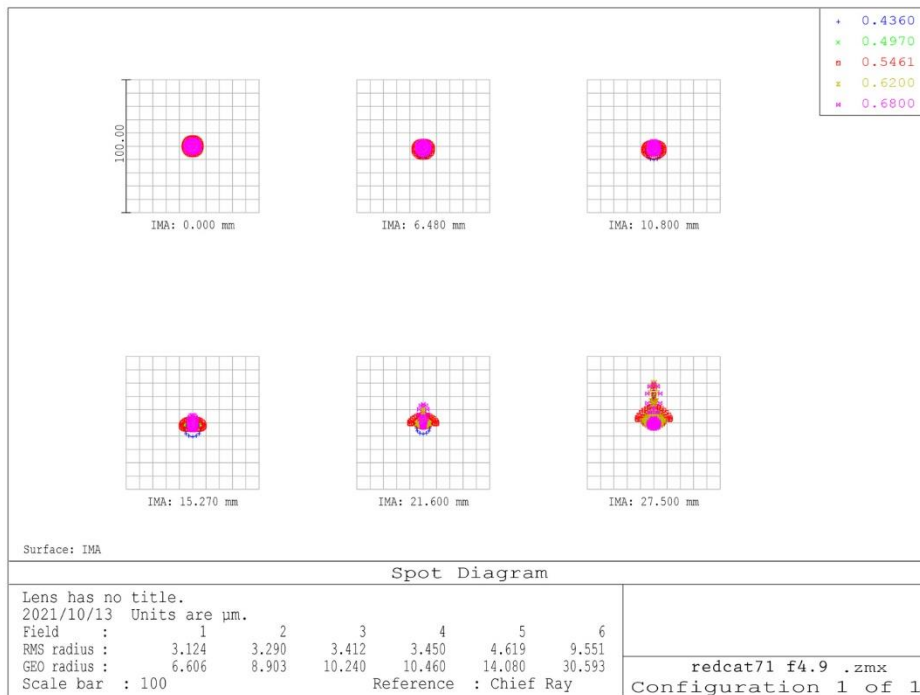
Warning

Never aim your telescope or finder scope at the Sun without proper Solar filters installed on the front of the telescope. Doing so for even a moment may permanently damage your vision. Proper Solar filters consist of filters made by reputable manufacturers, designed to fit tightly over the front of the dew shield. Solar eyepiece filters are not considered safe, and should not be used. With proper front mounted Solar filters, the telescope will not be harmed by viewing the Sun.





- **Focal Length** : 350mm (Astrograph)
- **Diameter** : 71mm
- **Aperture** : f/4.9
- **Focuser** : WIFD (WO INTERNAL FOCUS DESIGN)
(Compatible with EAF)
- **Image Circle** : 45mm full frame
- **Tube Length** : 427mm
- **Dew Shield Circumference** : 331mm
- **Dew Shield Diameter** : ϕ 105mm
- **Weight** : 7.11lbs / 3.225kg (OTA only)
9.47lbs / 4.295kg (OTA with
ring, dovetail and saddle)

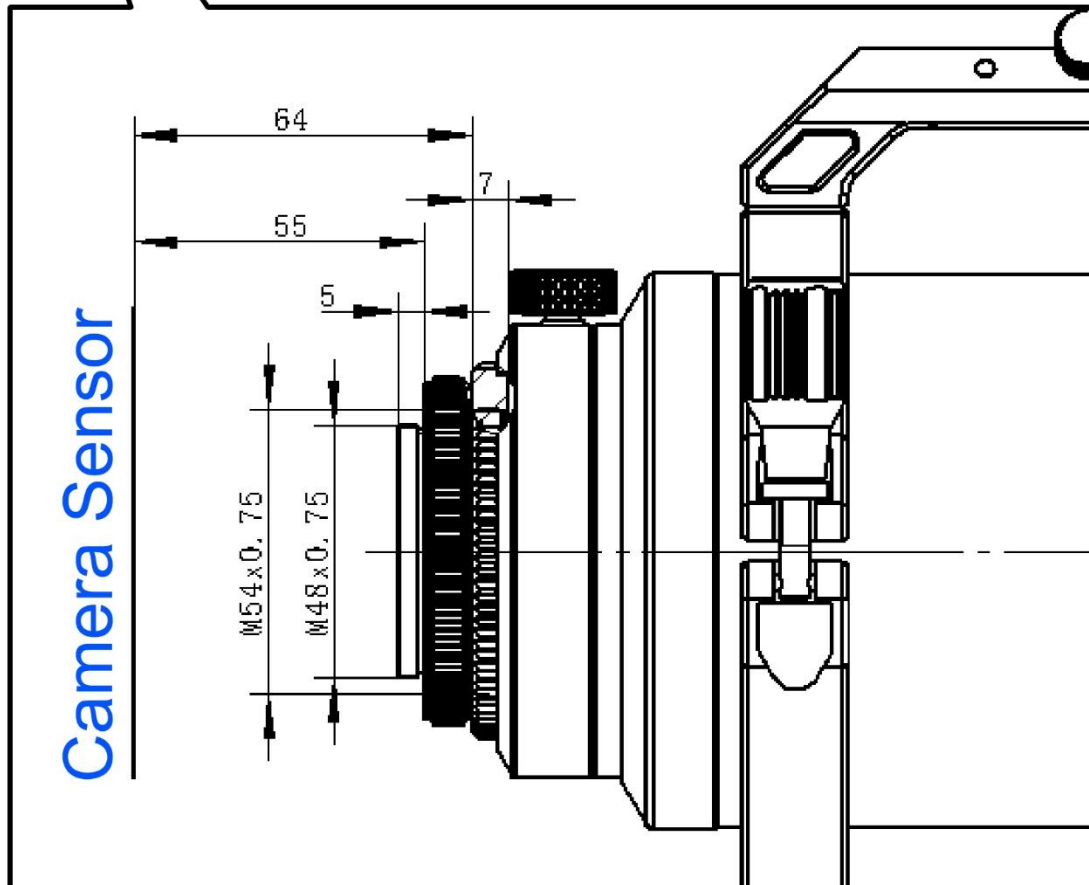
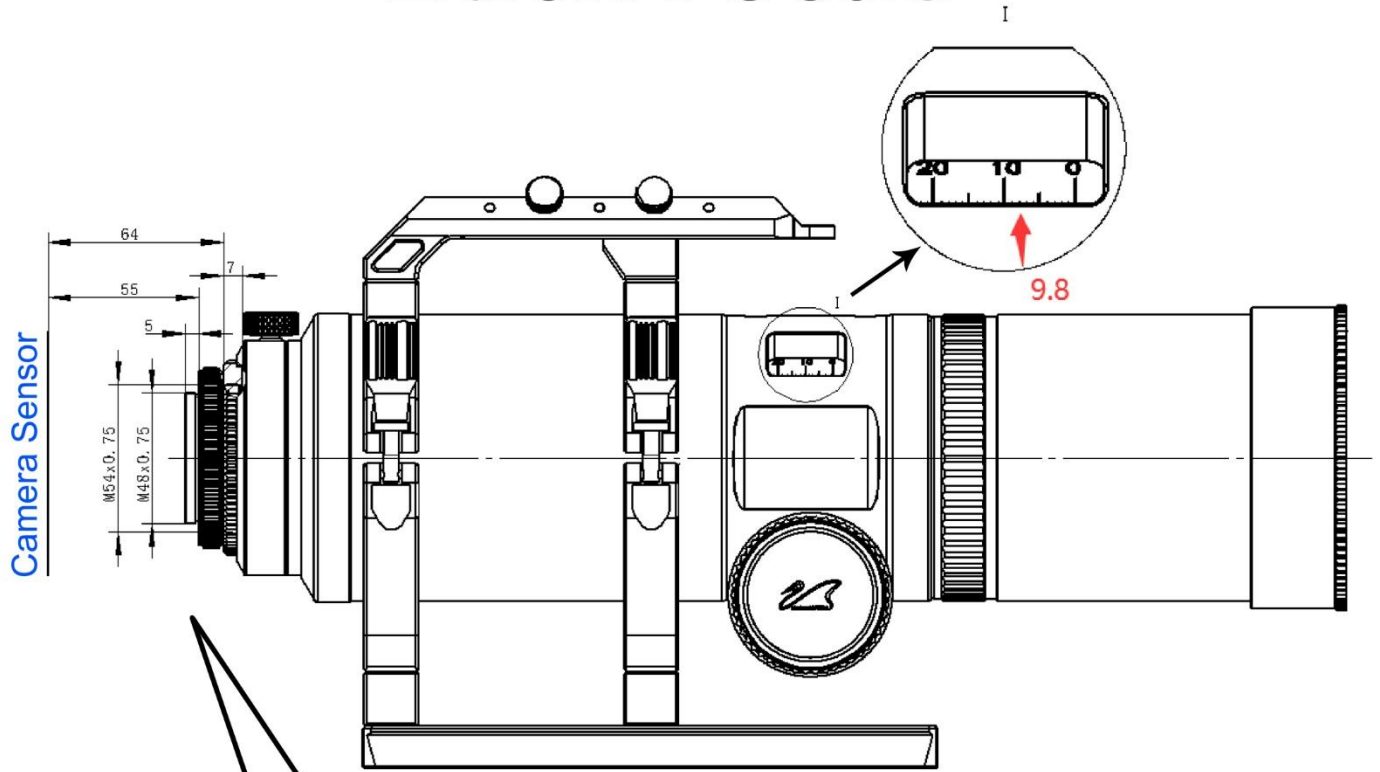


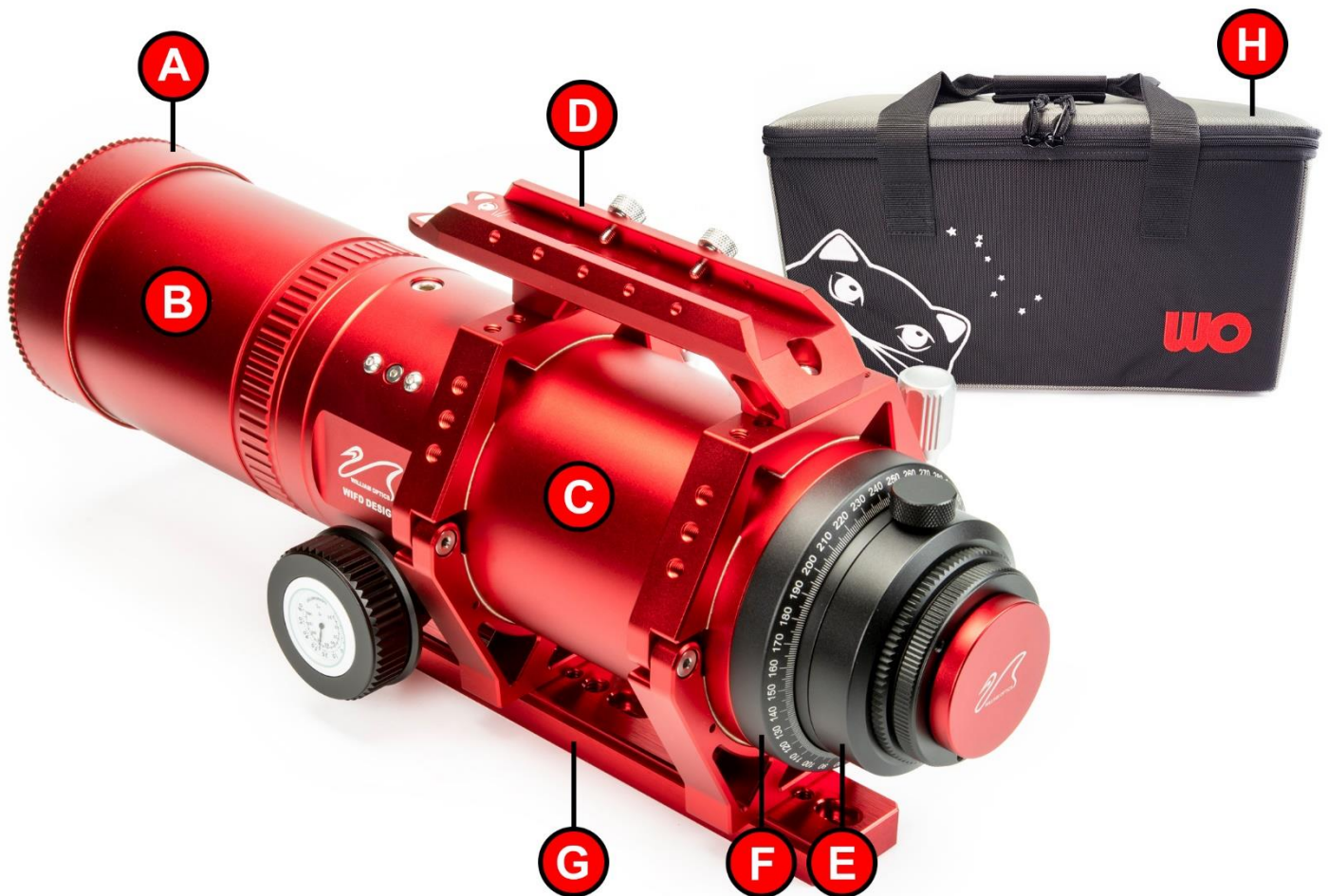
NOTE:

We are utilizing a unique Petzval design featuring four optical elements in the William Optics (WO) Cat series telescopes. This design incorporates the use of high-quality FPL-53 glass for superior optical performance. Before storing your telescope, it is crucial to allow it sufficient time to acclimatize to room temperature. Please ensure that the telescope is thoroughly dry, free of dew or moisture, before storing. This ensures the safety and longevity of the telescope's components.

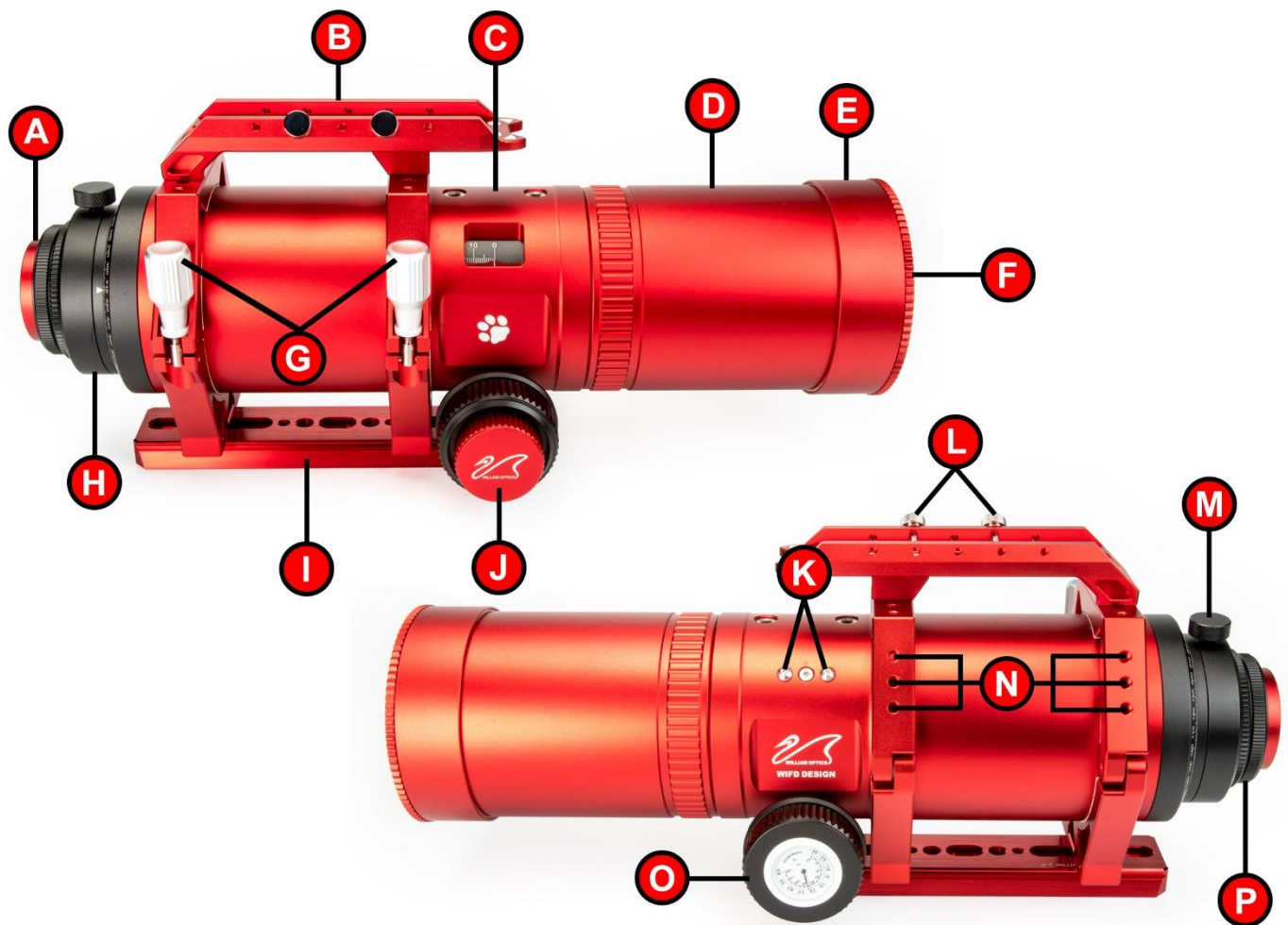
Always store the telescope in a consistent-temperature and dry environment to prevent any potential damage to the optical elements. Remember to leave the tube uncovered and opened during the acclimatization period. As always, taking appropriate care of your telescope will ensure its optimal performance and extend its lifespan.

Back Focus





- A. Dust Cover with Bahtinov Mask
- B. Dew Shield
- C. Main Tube
- D. Saddle Handle Bar
- E. Camera Angle Rotation Device
- F. Tilt Adapter (inside)
- G. 210mm Vixen Style Dovetail Plate
- H. Soft Carry Case



- A. Rear Dust Cap (M48)
- B. Saddle Handle Bar
- C. WIFD Focuser
- D. Dew Shield
- E. Lens Cover with Bahtinov Mask
- F. Front Bahtinov Mask Cover
- G. Mounting Rings / Knobs
- H. Camera Angle Rotator
- I. 210mm Dovetail
- J. 2 Speed 10:1 Ratio Fine Knob

- K. M4 Screw Holes for Finder Bracket
- L. Locking Screws on Saddle Handle Bar (M4)
- M. Camera Angle Rotation Locking Screw
- N. M6 Screw Holes for Finder Bracket
- O. Focuser Adjusting Knob with Thermometer
- P. M48 Adapter (for Camera Mount)



Lens



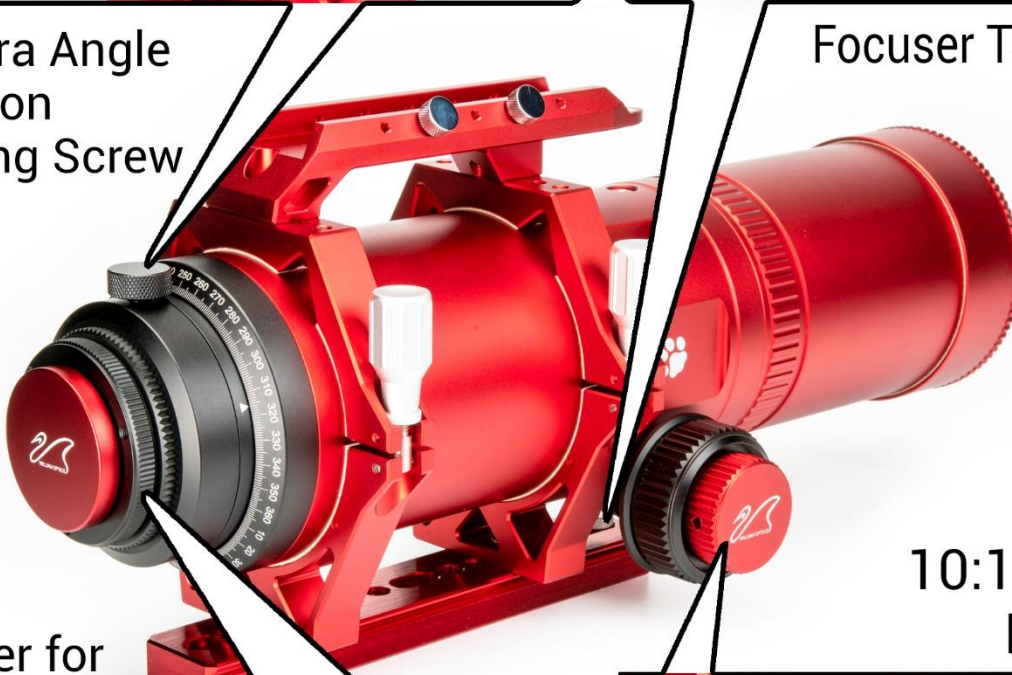


Camera Angle
Rotation
Locking Screw



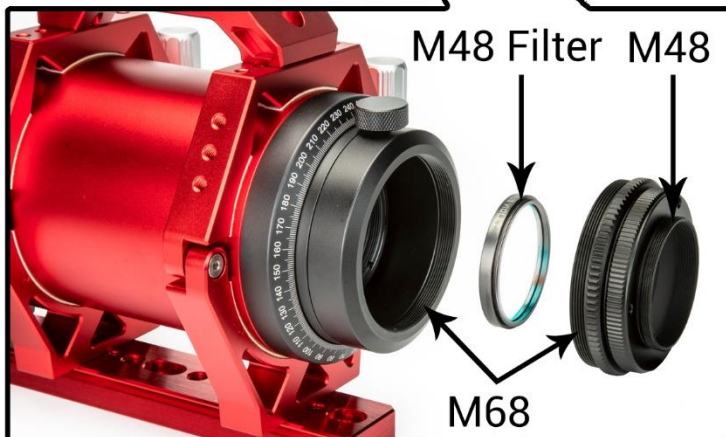
Focuser Tension Screw

Do not over
tighten (Release
the lock tension
when focusing)



Adapter for
Camera Mount

10:1 Ratio
Fine Knob



M48 Filter M48

M68





Tension Screws
(for increase focuser tension)



Finder Bracket Holder
Screws (remove both
screws before use)



Use 5mm Allen Key



Use 2.5mm Allen Key

R & P GEAR SPACING SCREWS

- Adjustment Screws (3 mm Allen Key) - Pull Screw
- Adjustment Screws (2 mm Allen Key) - Push Screw
- Can be Removed to Attach the Electronic Motorized Device such as EAF (Please refer to the instructions on page 13)
- Tension Screw (Please refer to Note 2)
- Do Not Touch

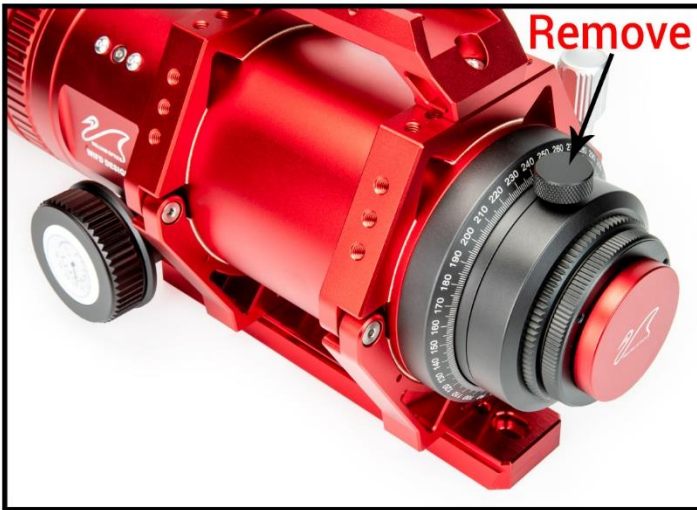


IMPORTANT NOTE:

1. The focuser smoothness adjustment **ONLY** when necessary by progressively push & pull screws until you reach the desired smoothness.
2. When using the telescope with the motor, please ensure that the tension screw is not over-tightened. Over-tightening the tension screw may cause damage to the focuser.

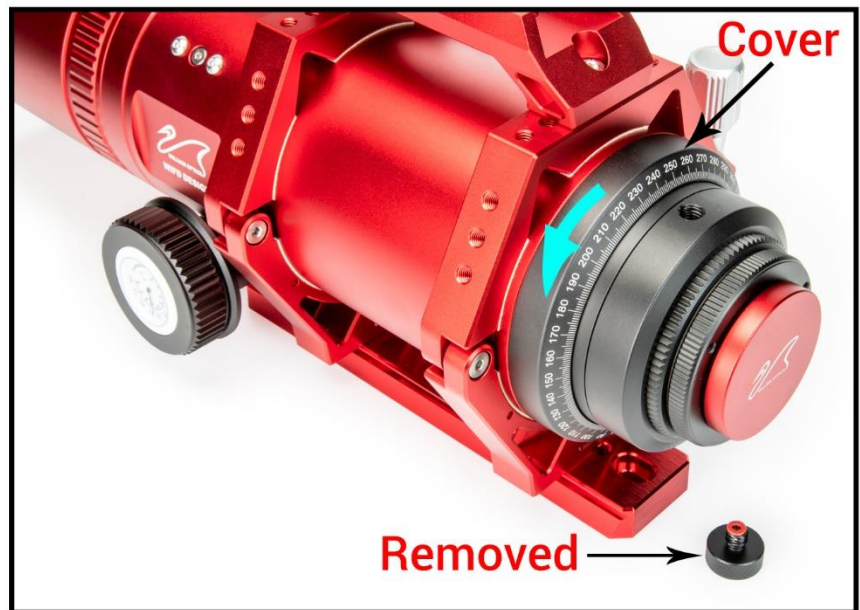
Think of it like driving a car and pressing the gas pedal while also pressing the brake simultaneously. Just as this action could harm your car's systems, over-tightening the tension screw could compromise the functionality of your telescope's focuser.

Where Is the Tilt Adapter?



Step 1.

Remove the rotator knob.



Step 2.

Twist the cover.



Step 3.

The tilt adapter is inside.

Where Is the Tilt Adapter?

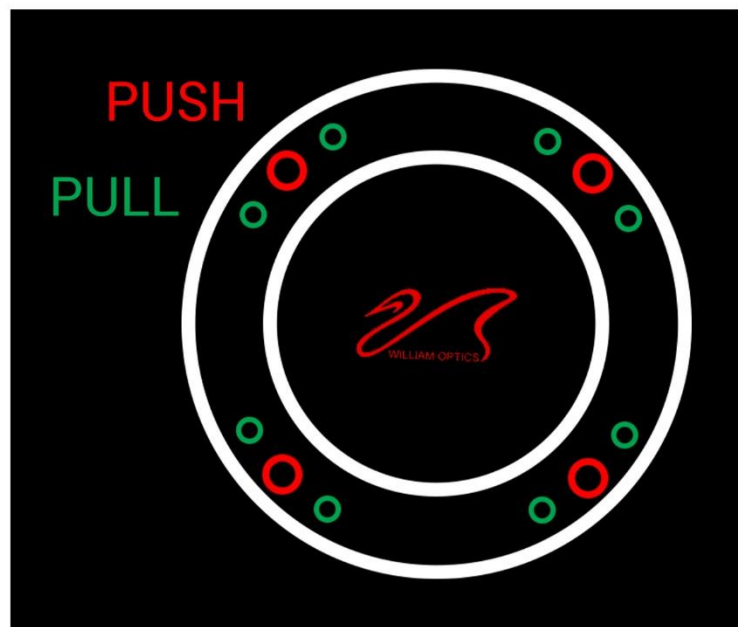


Step 4.

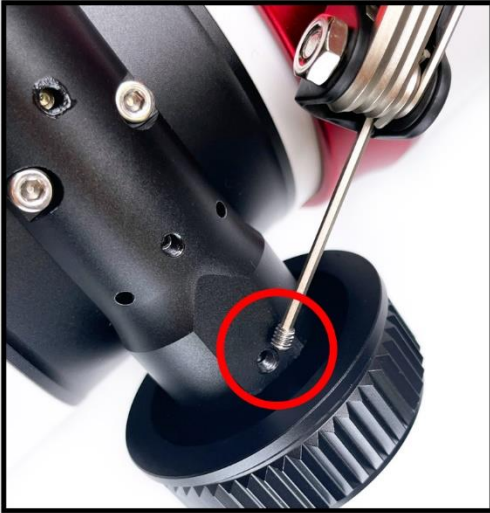
Remove the cover when you need to adjust it.

Step 5.

How to adjust the tilt adapter.



How to Install EAF

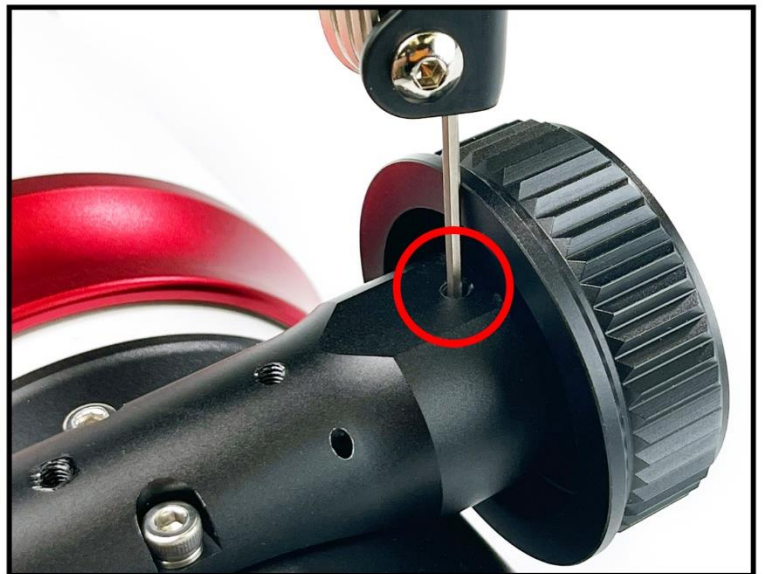


Step 1.

Remove the top screw with 2mm Allen key.

Step 2.

Release two inner knob screws.



Step 3.

Remove the knob.

How to Install EAF



Step 4.

Align the screw holes.

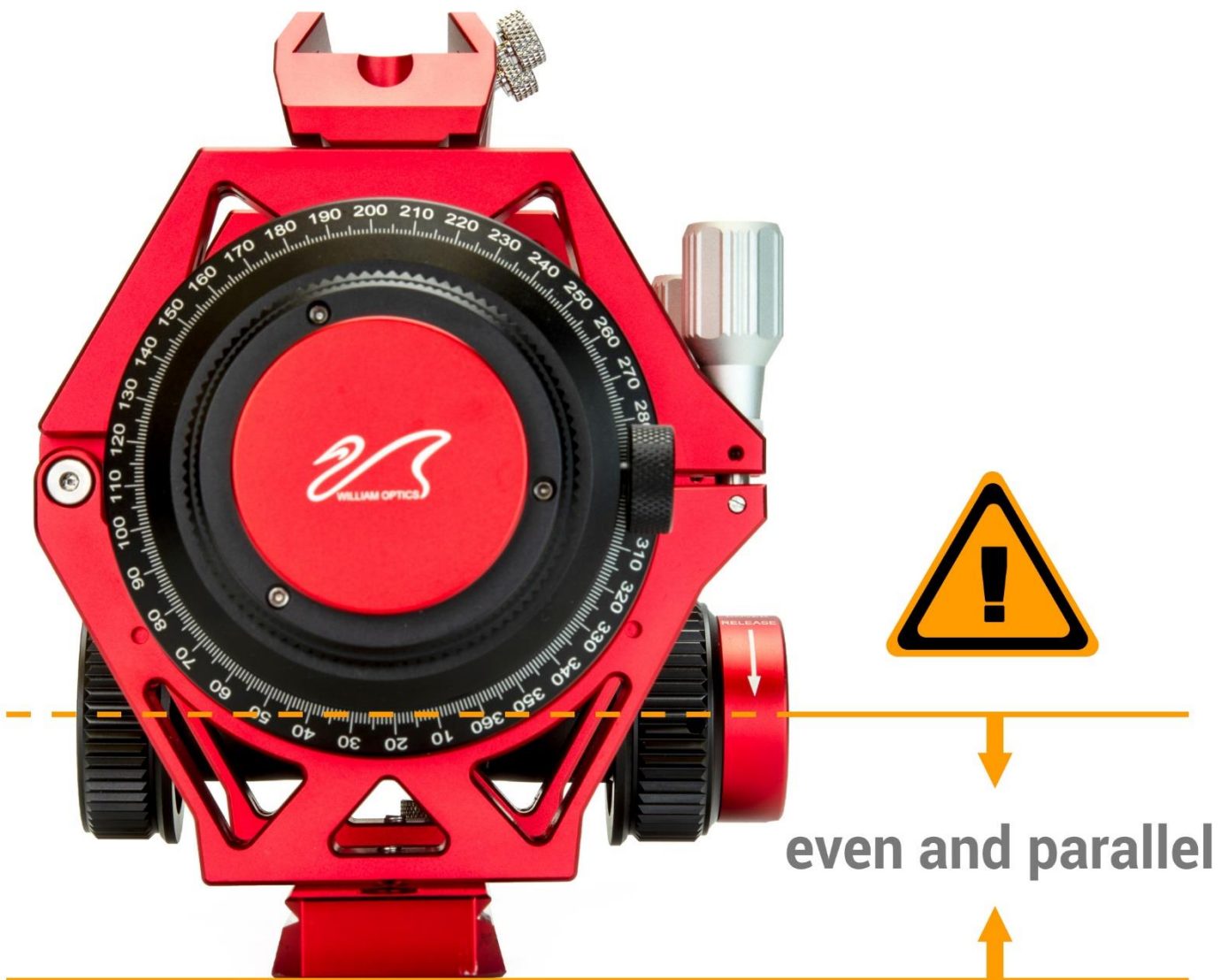
Step 5.

Lock two set screws
on shaft.



Step 6.

Tighten both bracket
screws.

**NOTE:**

Ensure proper alignment by loosening the mounting rings and adjusting the telescope on the mount to guarantee that both knobs on either side of the focuser are **even and parallel** to the mount to prevent any interference with the knobs impacting the mount's saddle plate.

Cinematagraphy



Astrophotography



Astro Duo-Narrowband Filter

