WILLIAM OPTICS

PLEIADES 68

MANUAL

WILLIAMOPTICS.COM/PLEIADES-68

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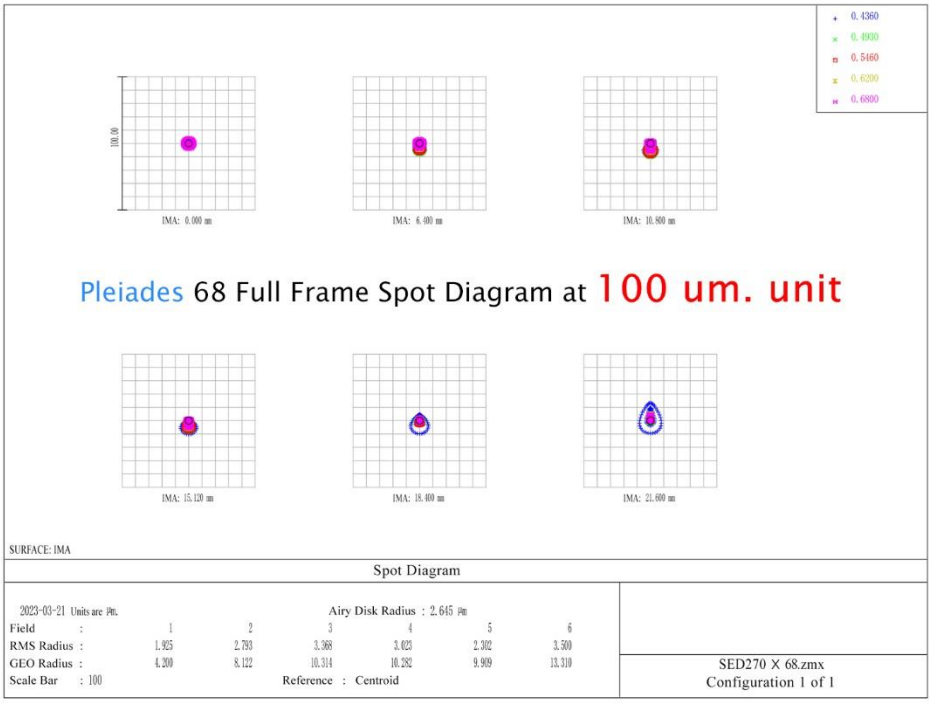
Warning

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.

PLEIADES 68 SPECIFICATION

- **Focal Length** : 260mm
- **Diameter** : 68mm
- **Aperture** : f/3.8
- **Focuser** : WIFD (WO INTERNAL FOCUS DESIGN)
  Patented (Compatible with EAF)
- **Image Circle** : >Full Frame (45mm)
- **Retracted Length** : 366mm
- **Extended Length** : 410mm
- **Dew Shield Circumference** : 325mm
- **Dew Shield Diameter** : ϕ103mm
- **Weight** : 6.57lbs / 2.980kg (OTA only)
  8.45lbs / 3.835kg (OTA with ring, dovetail and saddle)

PLEIADES 68 SPECIFICATION



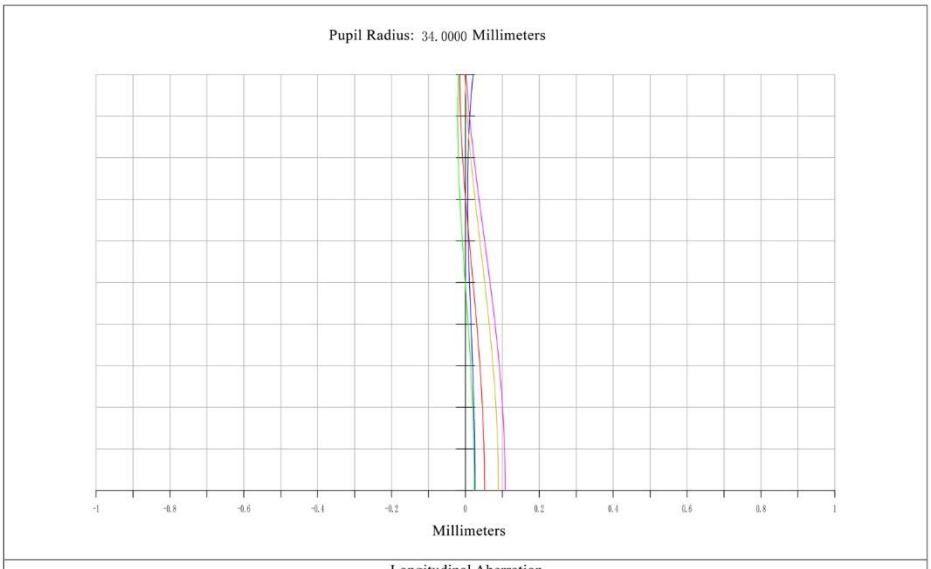
Spot Diagram

2023-03-21 Units are μm. Airy Disk Radius : 2.645 μm

Field	1	2	3	4	5	6
RMS Radius :	1.925	2.783	3.368	3.025	2.302	3.500
GEO Radius :	4.200	8.122	10.314	10.282	9.909	13.310

Scale Bar : 100 Reference : Centroid

SED270 X 68.zmx
Configuration 1 of 1



Longitudinal Aberration

2023-12-01
Wavelengths: From 0.436 To 0.680 μm
0.436 0.493 0.546 0.620 0.680

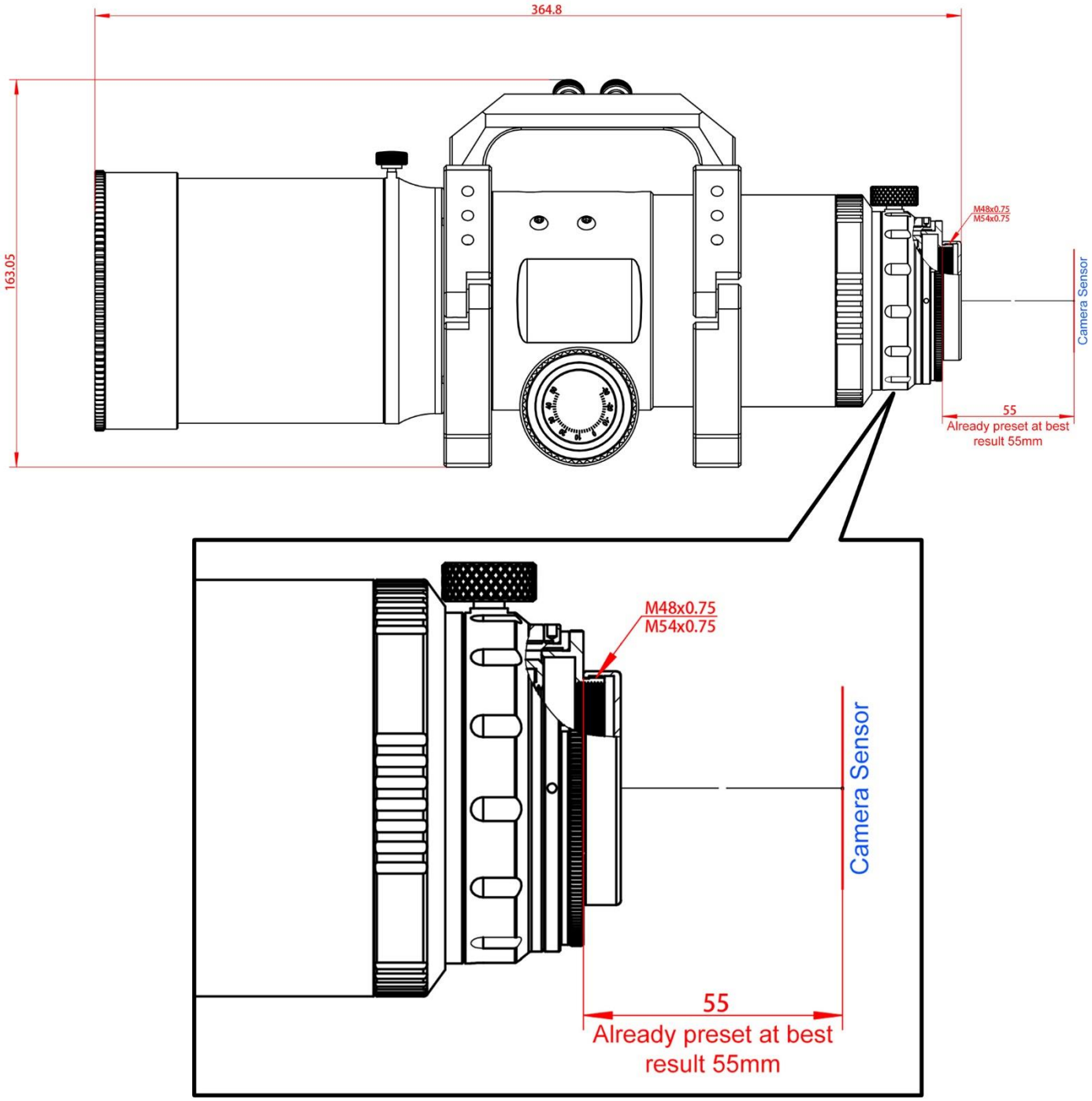
SED270 X 68.zmx
Configuration 1 of 1

NOTE:

We are using a new lens cell design in the WO Pleiades 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.

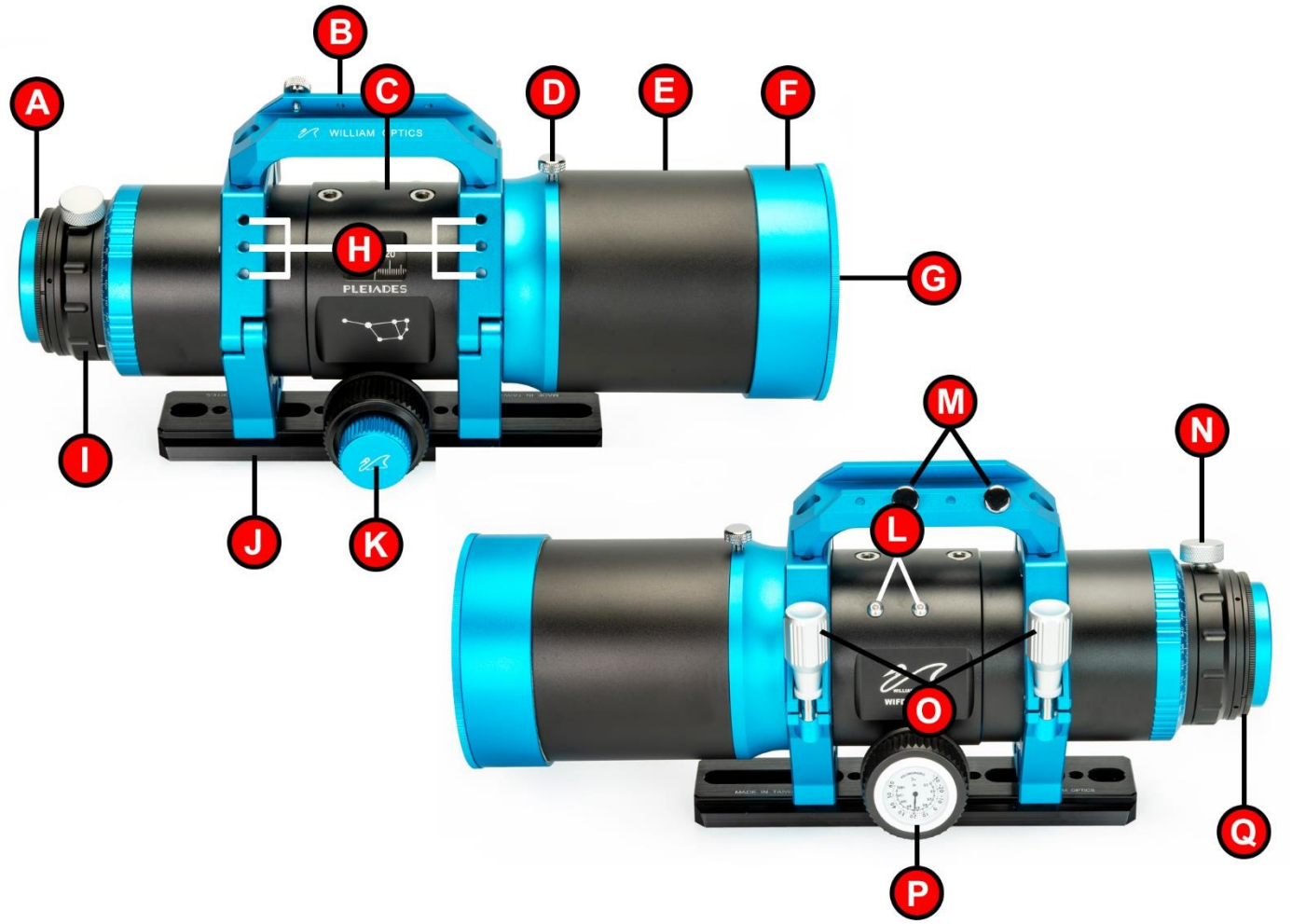
Back Focus



Critical Backfocus Information:

The recommended backfocus for our 68 telescope is precisely 55mm. Given its fast F ratio, maintaining an exact 55mm backfocus is crucial for optimal performance. Please ensure accurate adjustment to enhance the sensitivity and overall functionality of your telescope.

A. Dust Cover with Bahtinov Mask
B. Dew Shield
C. Main Tube
D. 120mm Saddle Handle Bar
E. Camera Angle Rotation Device
F. Tilt Adapter (inside)
G. 210mm Vixen Style Dovtail Plate
H. M54 or M48 Camera Mount Adapter
I. Soft Carry Case



A. Rear Dust Cap (M54 or M48)
B. 120mm Saddle Handle Bar
C. WIFD Focuser
D. Dew Shield Locking Screw
E. Dew Shield
F. Lens Cover with Bahtinov Mask
G. Front Bahtinov Mask Cover
H. M6 Screw Holes for Finder Bracket
I. Camera Angle Rotator
J. 210mm Dovetail
K. 2 Speed 10:1 Ratio Fine Knob
L. M4 Screw Holes for Finder Bracket
M. Locking Screws on Saddle Handle Bar (M4)
N. Camera Angle Rotation Locking Screw
O. Mounting Rings / Knobs
P. Focuser Adjusting Knob with Thermometer
Q. Camera Mount Adapter (M54 or M48)

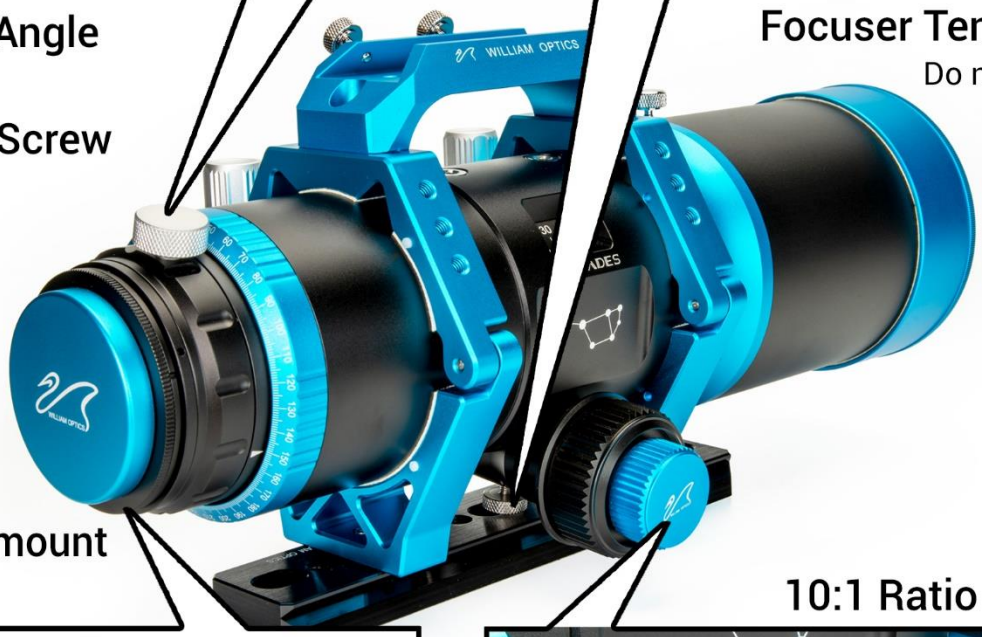
PLEIADES 68 TELESCOPE DIAGRAM

PLEIADES 68 TELESCOPE DIAGRAM

Camera Angle Rotation Locking Screw

Focuser Tension Screw

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



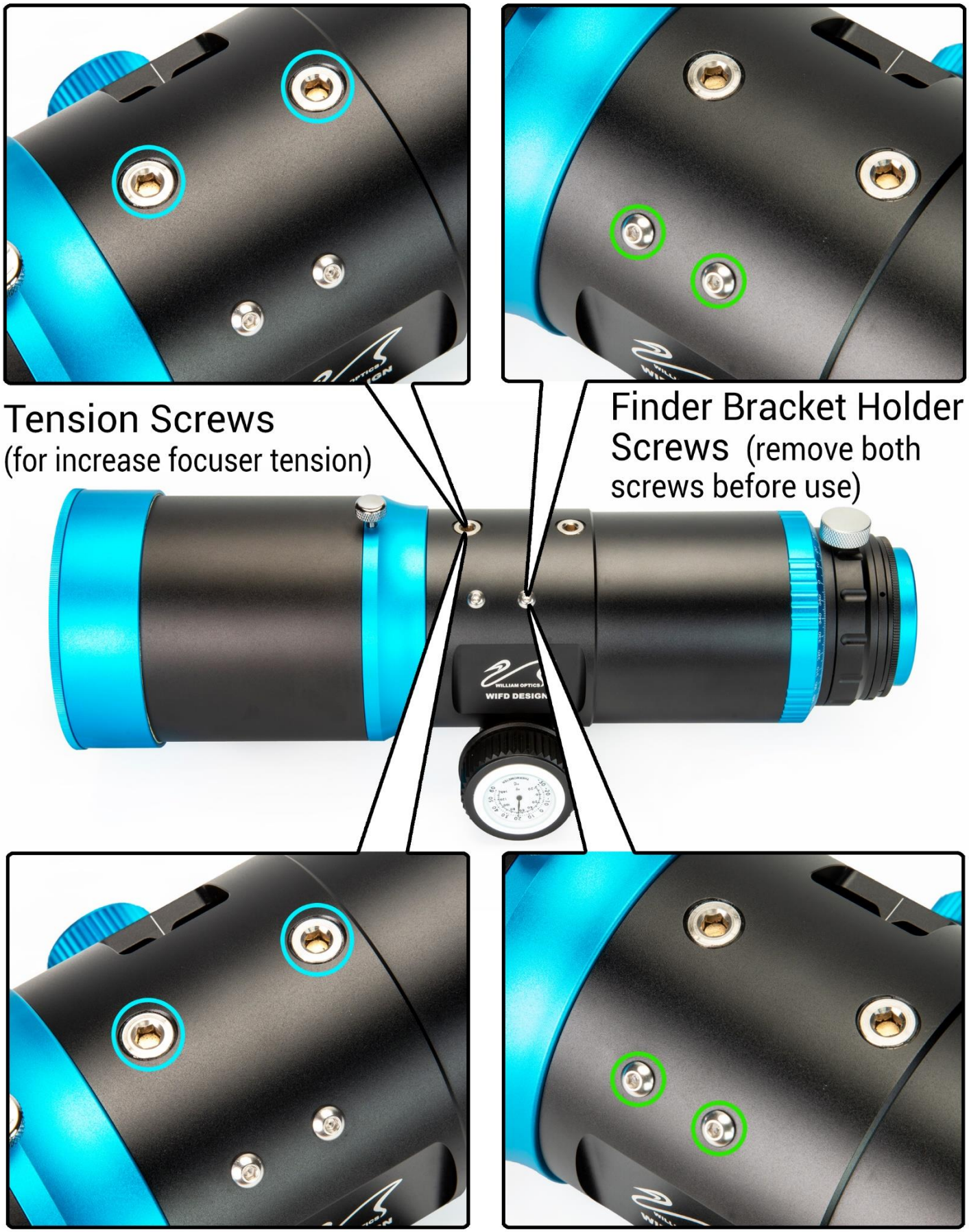
Camera mount Adapter

Included in the standard package

10:1 Ratio Fine Knob

Attention: Our telescope does not feature an internal M48 filter thread due to its proximity to the second lens group near the camera adapter. This design choice prevents interference with the lenses within the telescope tube, making direct attachment of a 48mm filter challenging. For optimal results, we recommend using a filter wheel attached to either M48 or M54 thread. This ensures seamless filter usage without compromising the telescope's optical performance.

PLEIADES 68 TELESCOPE DIAGRAM



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)
- Lock & Tension Screw
- Do Not Touch

The focuser smoothness adjustment **ONLY** when necessary by progressively push & pull screws until you reach the desired smoothness.

NOTE:

DO NOT ADJUST IT BEFORE ASKING WO

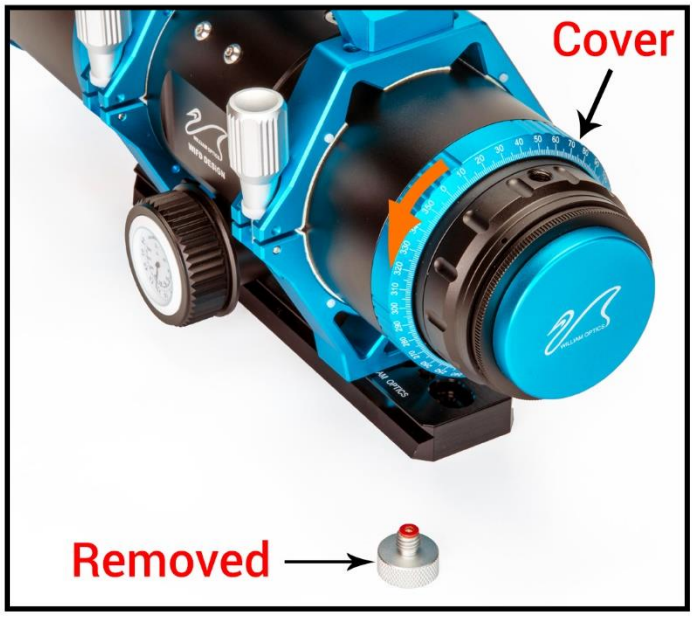
Where Is the Tilt Adapter?

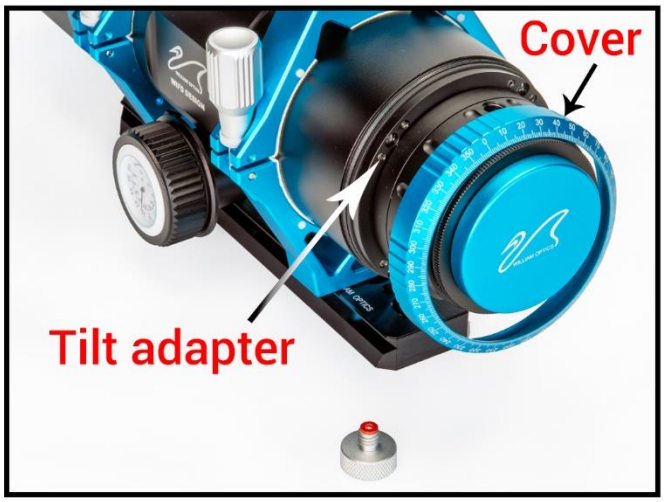
Step 1.

Remove the rotator knob.

Step 2.

Twist the cover.





Step 3.

The tilt adapter is inside.

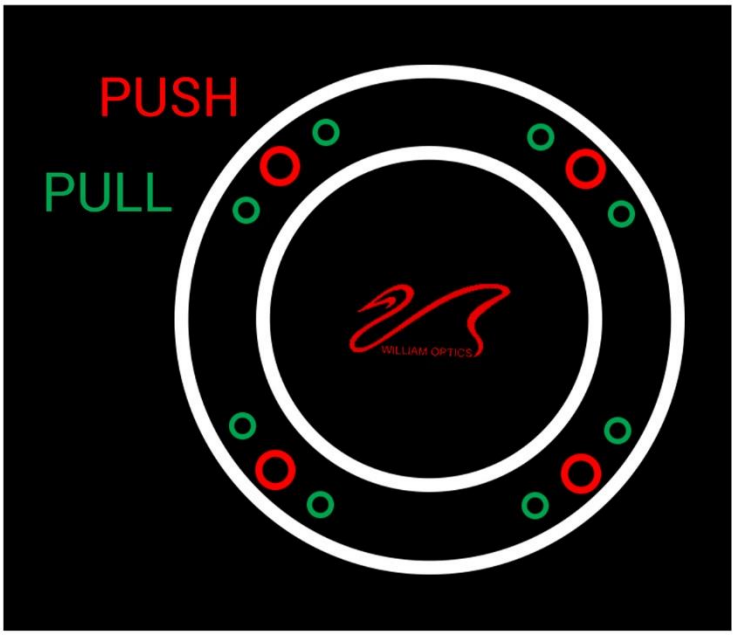
Where Is the Tilt Adapter?

Step 4.

Remove the cover when you need to adjust it.

Step 5.

How to adjust the tilt adapter.



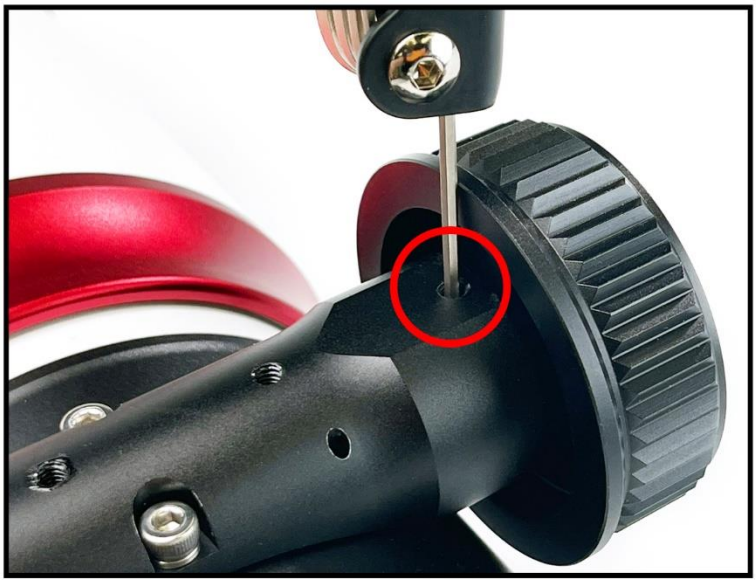
How to Install EAF

Step 1.

Remove the top screw with 2mm Allen key.

Step 2.

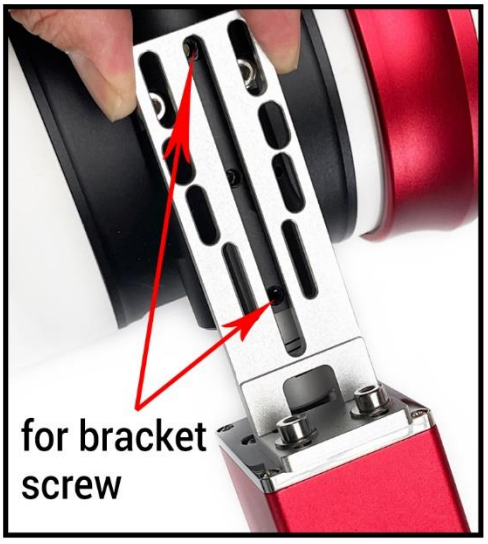
Release two inner knob screws.



Step 3.

Remove the knob.

How to Install EAF

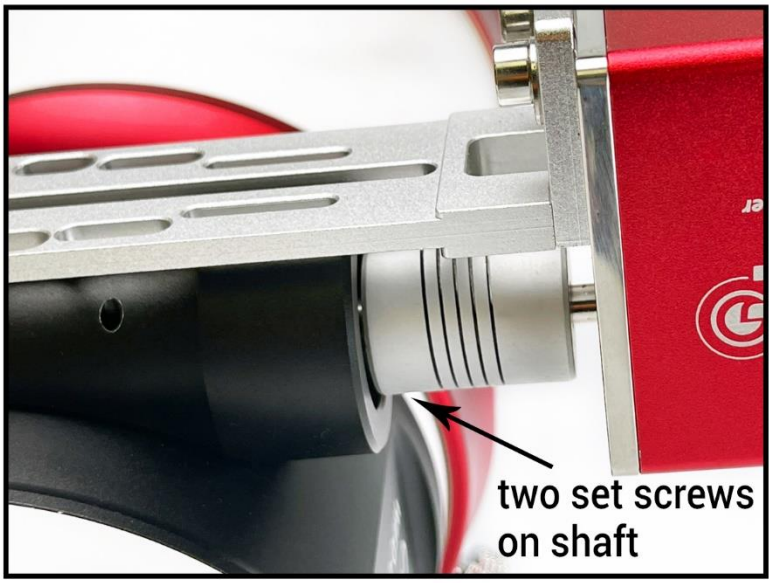


Step 4.

Align the screw holes.

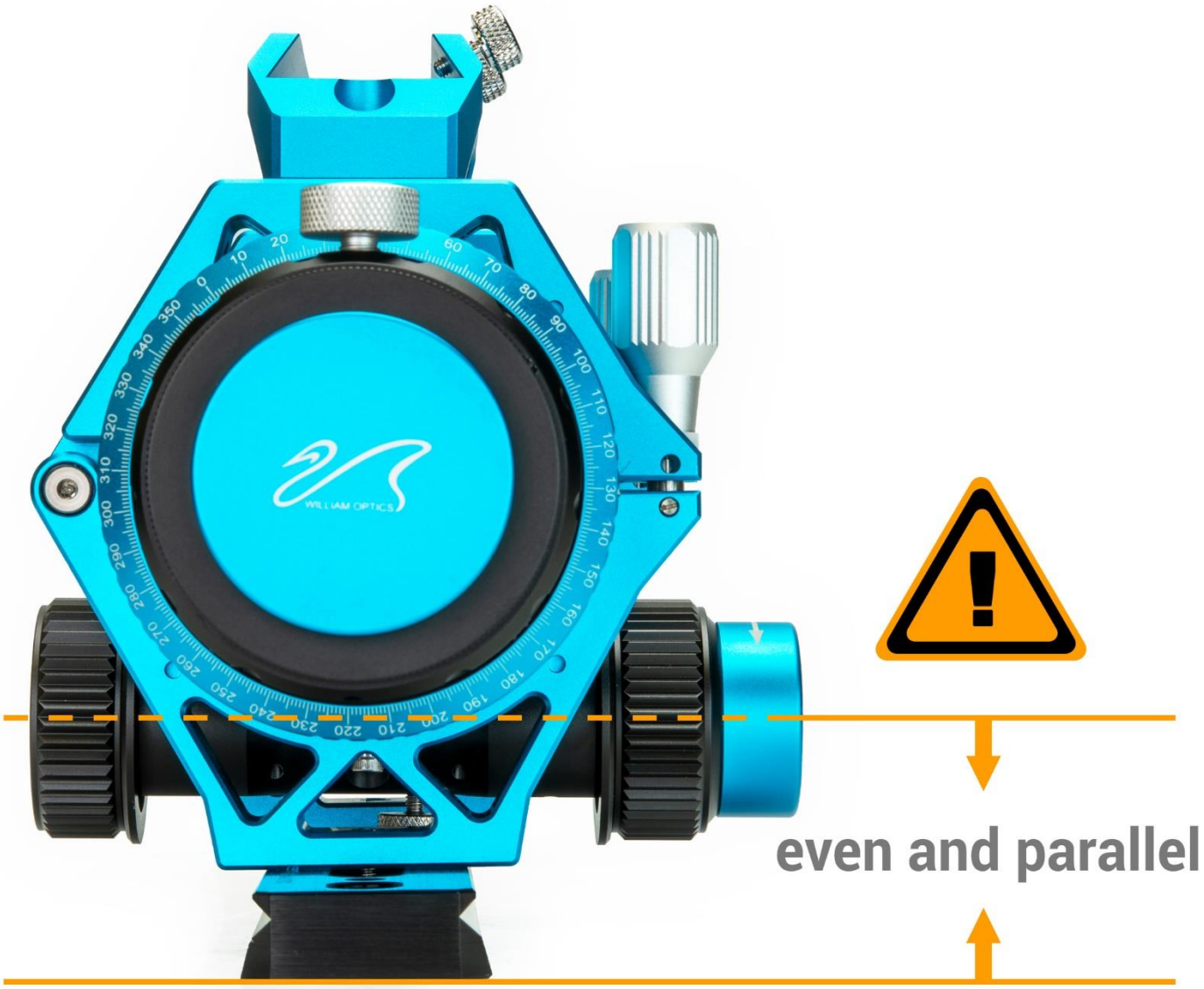
Step 5.

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

Losmandy Plate
(Black)

Camera mount

COMING SOON

Astrophotography

Red Dot Sight

STC
Astro-Multispectra Filter
Astro Duo-Narrowband Filter

M-G32PB-BU (optional)

COMING SOON