

ZENITHSTAR 103 APO

Owner's Manual ver. 1.0
2018.09



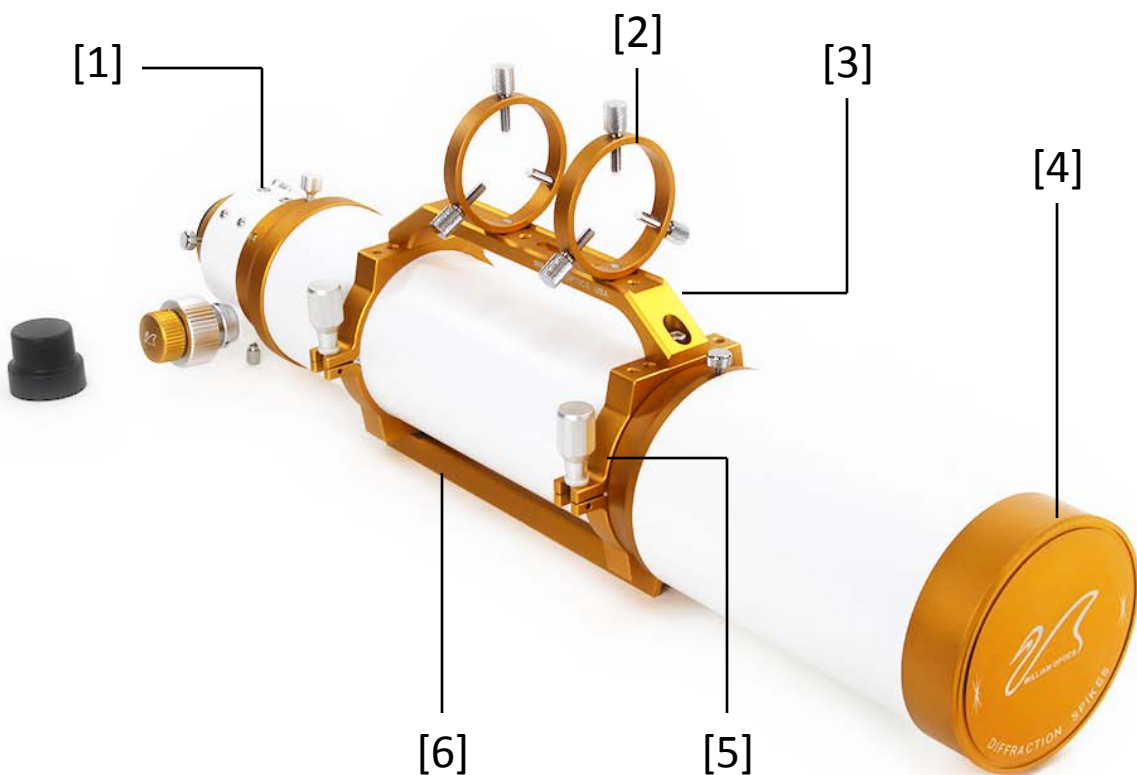
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Specification

Aperture	103mm
Focal Ratio	F/6.9
Focal Length	711mm
Image Circle	Z103 with Flat 6A II Φ 43mm
Limiting magnitude	10
Objective Type	Synthetic Flourite FPL 53 Doublet, Air Spaced, APO Fully Multi-Coated, SMC coating.
Lens Shade	Retractable
Focuser	2.5" R&P Ultra robust focuser with 1:10 Dual Speed micro focuser
Field Stops	Baffles
Mounting Rings	Provided
Tube Diameters	105mm
Tube Length	615mm Fully Retracted 750mm Fully Extended
Tube Weight	4.36kg (Rings and Dovetail include)

Package Contents



[1] 2.5" R&P Focuser

[3] CNC Carry Handle Bar

[5] Mounting Rings

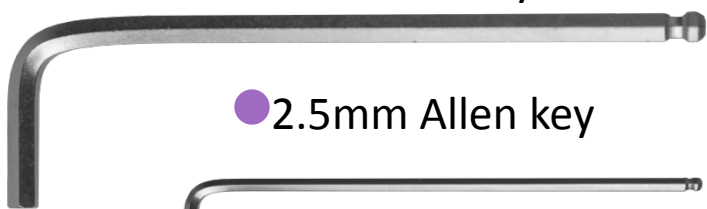
[2] Guiding Rings

[4] Innovative Bahtinov Mask Cover (Patented)

[6] Long Vixen Style Dovetail Plate

Tools necessary for this scope

● 5.0mm Allen key



● 2.5mm Allen key

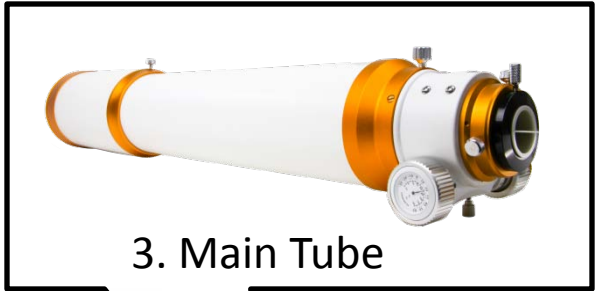


● Your Hands

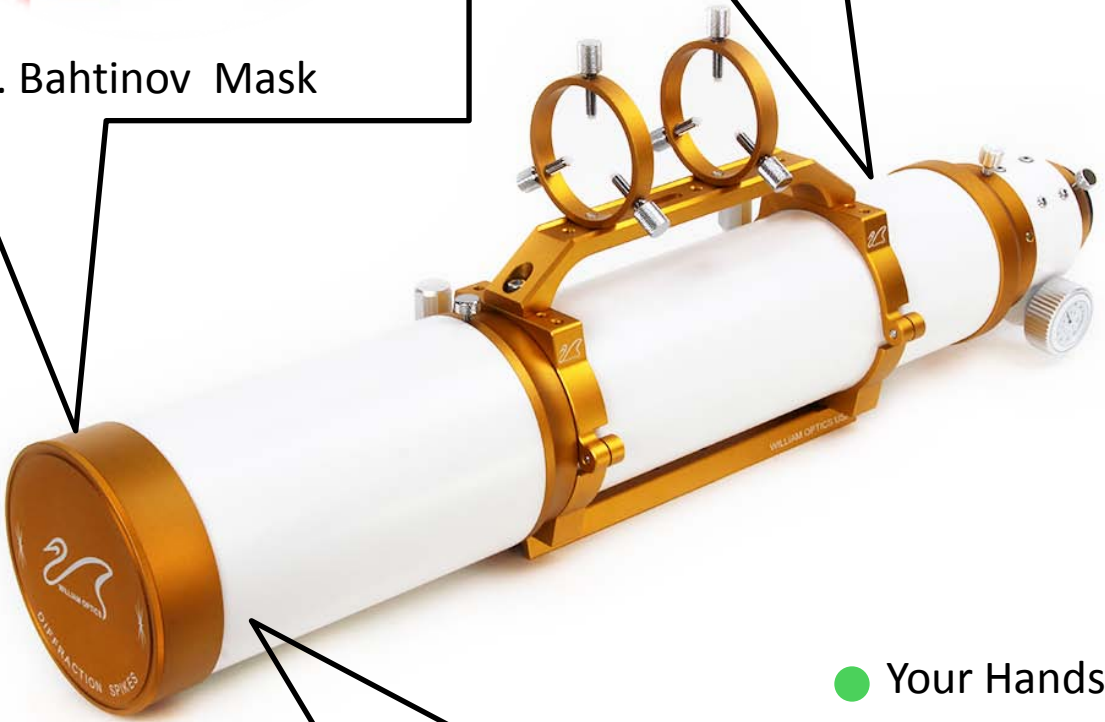




1. Bahtinov Mask



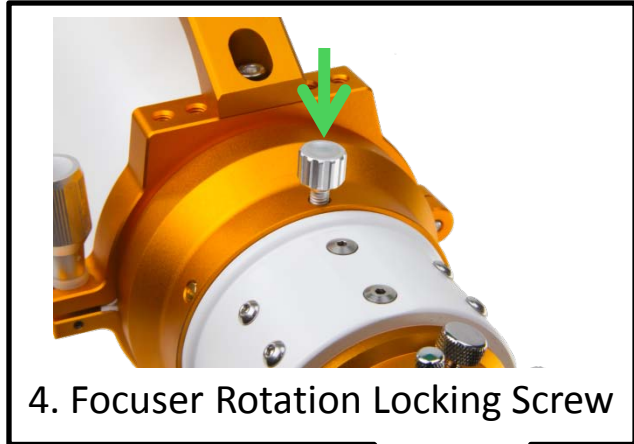
3. Main Tube



● Your Hands



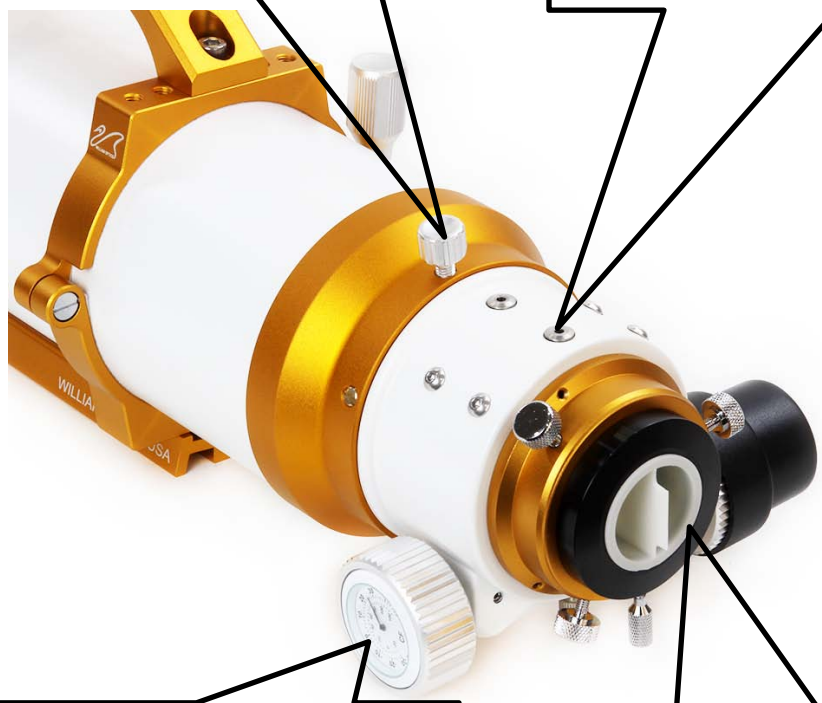
2. Retractable Dew Shield



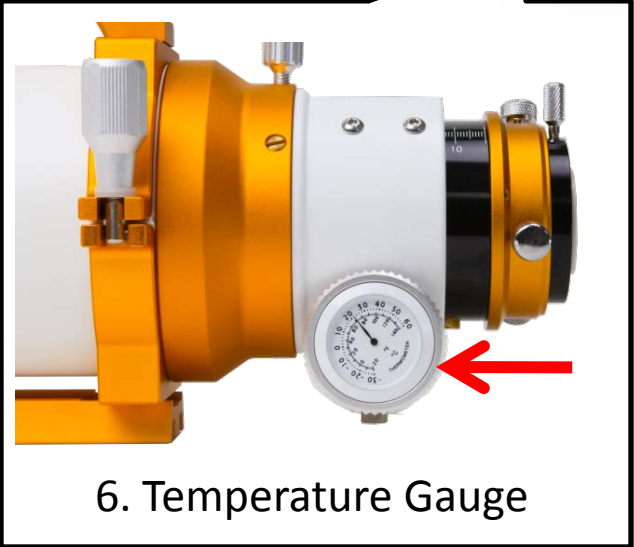
4. Focuser Rotation Locking Screw



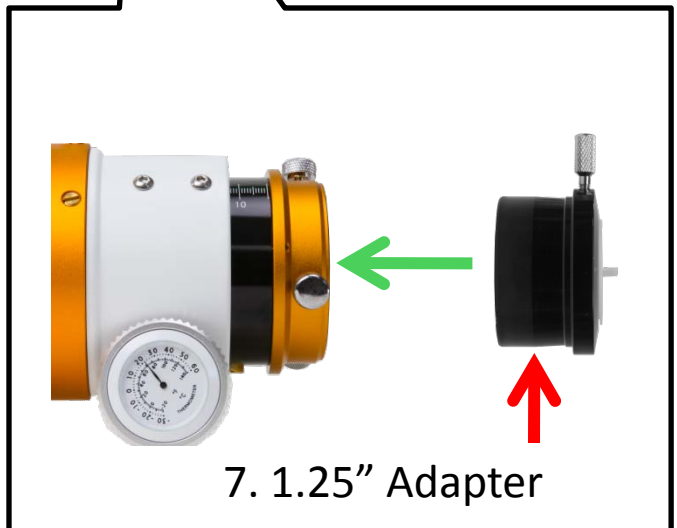
5. Draw Tube Tension Adjustment



- 2.5mm Allen key
- Your Hands



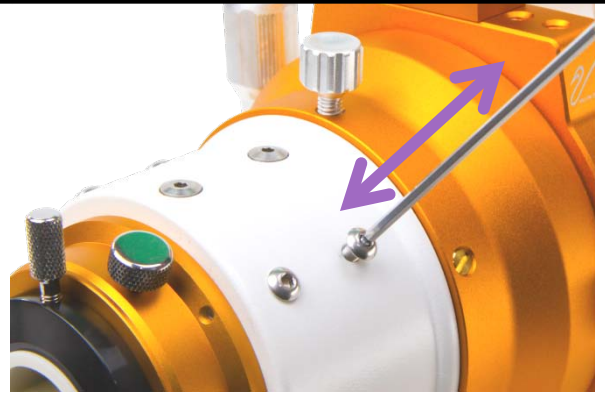
6. Temperature Gauge



7. 1.25" Adapter



8. Two inch draw tube locking screws



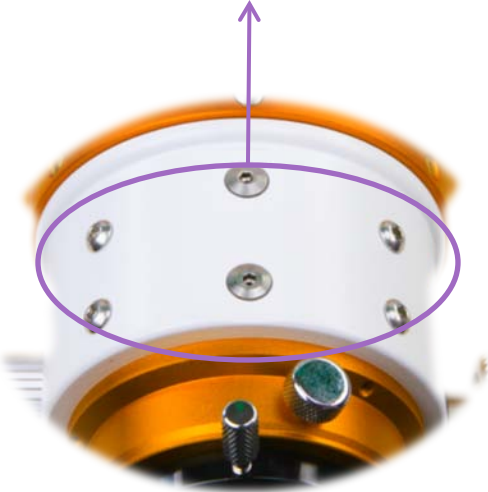
9. Vixen Style Bracket Holder Screws for Finder bracket (remove both screws before use)



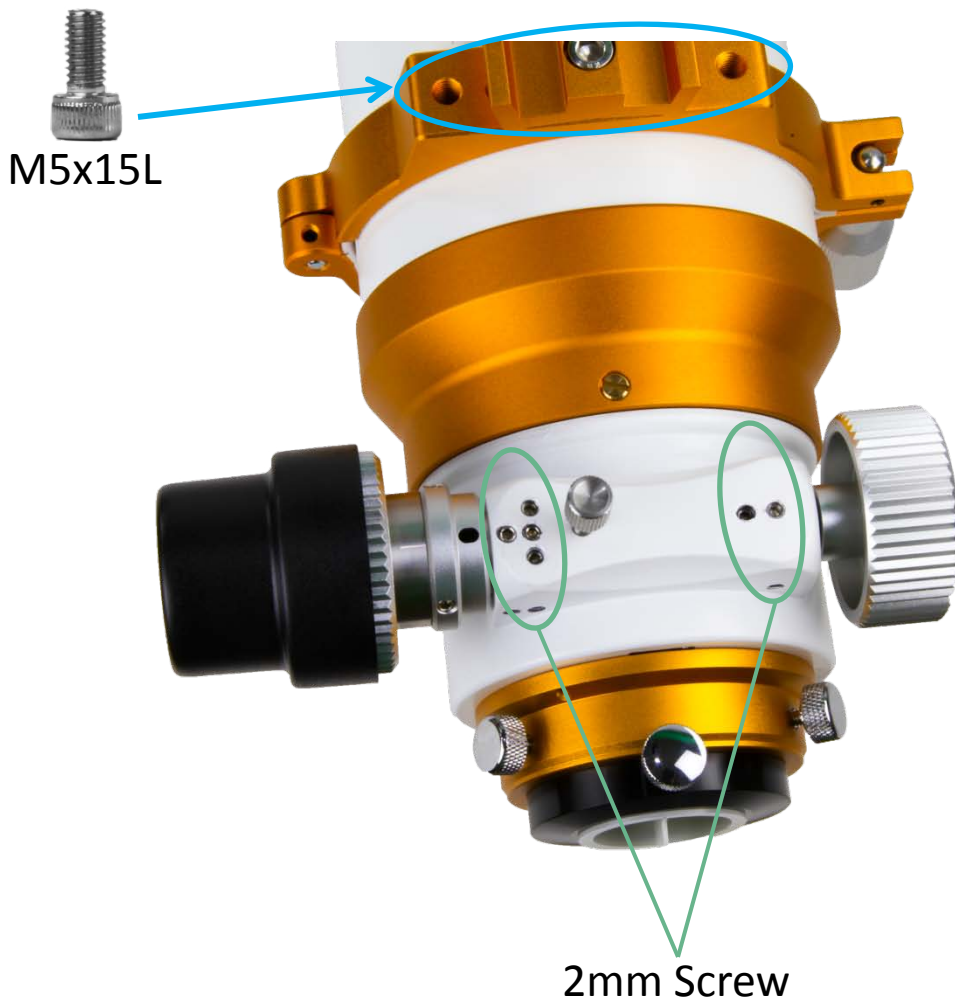
● 2.5mm Allen key

● Your Hands

2.5mm Screw

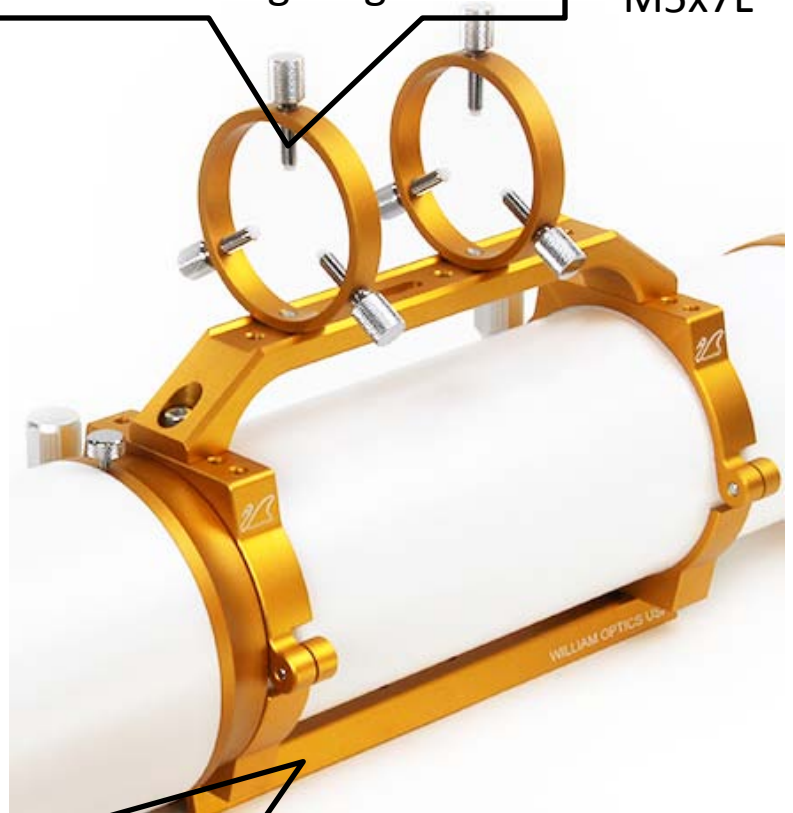
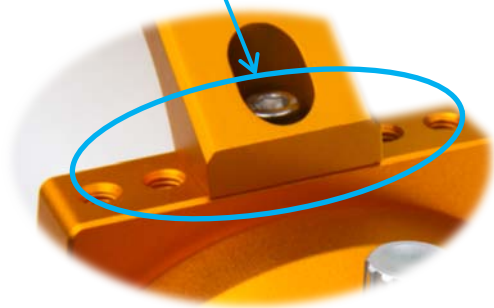
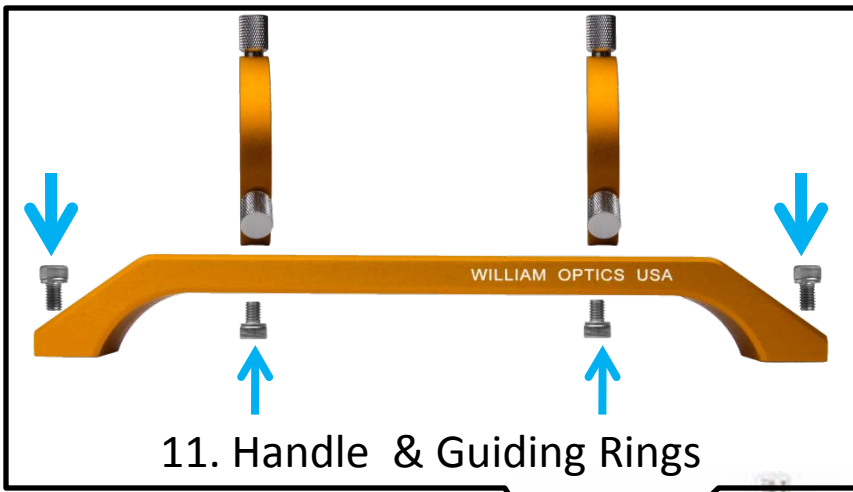


10. 10:1 Ratio Fine Knob

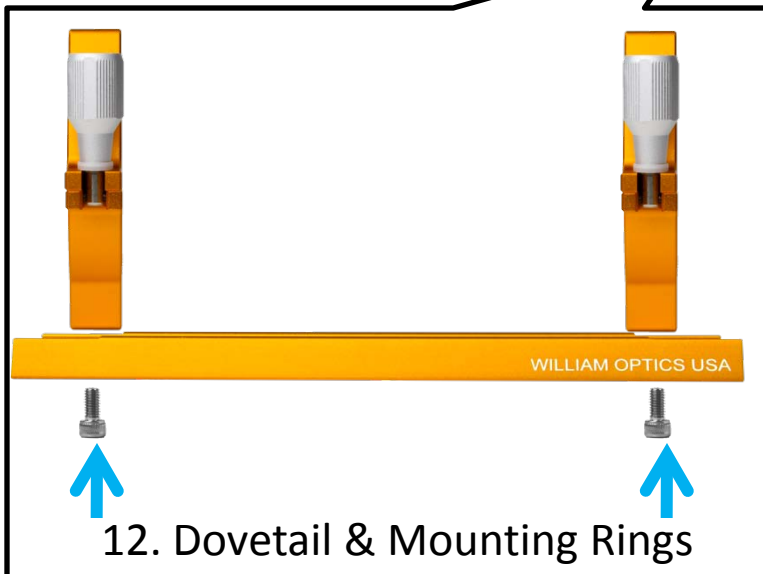


The focuser drawtube smoothness can be adjusted using a 2 mm Allen key and tension should be adjusted **ONLY** when necessary by progressively tightening the screw until you reach the desired smoothness.

NOTE: DO NOT ADJUST IT BEFORE ASKING WO



● 5.0mm Allen key





1.25" Dielectric CF Plate



SPL 12.5mm (1.25 inch) Eyepiece



1.25" 45° Erecting Prism



SWAN 9mm



Guiding scope



2.5" M63 Angle Rotator



Adjustable Flat6A II



T-Mount



2" Diagonal



SWAN 33mm



2" to 1.25" Adapter



M63 to M48 Photo adapter



CCD Camera



Equatorial Mount