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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.



SPECIFICATION



- · Focal Length : 250mm (Astrograph)
- · Diameter : 51mm
- Aperture : f/4.9
- Focuser : WIFD (WO INTERNAL FOCUS DESIGN) (Compatible with EAF)
- Image Circle : 45mm full frame
- · Tube Length : 298mm
- Dew Shield Circumference : 265mm
- · Dew Shield Diameter : φ84mm
- Weight : 3.90lbs / 1.770kg (OTA only)
 5.25lbs / 2.380kg (OTA with ring, dovetail and saddle)

SPECIFICATION



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.

WIFD REDCAT 51 PACKAGE CONTENTS



- 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 Dovtail Plate
- H. Soft Carry Case

PARTS



- 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 Ring / Knob
- 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. M4 Screw Holes for Finder Bracket
- O. Focuser Adjusting Knob with Thermometer
- P. M48 Adapter (for Camera Mount)







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

O Adjustment Screws (3 mm Allen Key) - Pull Screw

- O 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 12)
- O Lock & Tension Screw
- O 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.



WIFD REDCAT 51 OPERATION GUIDE

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.

WIFD REDCAT 51 OPERATION GUIDE

How to Install EAF



Step 4. Align the screw holes.

Step 5.

Lock two set screws on shaft.





Step 6. Tighten both bracket screws.

WIFD REDCAT 51 ACCESSORIES MAP

Cinematagraphy



Camera mount





Erecting Prism for WIFD Cat 51 (coming soon)



Red Dot Sight



Astrophotography



Astro-Multispectra Filter Astro Duo-Narrowband Filter





M-G32PB-RD (optional)

