



80ED

User's Manual

WARNING

**DO NOT LOOK AT SUN THROUGH TELESCOPE.
IT WILL CAUSE IRREVERSIBLE DAMAGE TO YOUR EYES.**

English

Instructions for use



 ED glass

Optical path

The Askar 80ED is a telescope with an aperture of 80mm, a focal length of 560mm, and a focal ratio of F7.

The optical lens features a two-element structure, consisting of one ED glass and one standard achromatic glass.

The Askar 80ED is specifically optimized for APS-C frame while also supporting full-frame imaging. The DSLR camera can be used for photography with a mirror-less adapter.

The Askar 80ED is suitable for astrophotography and visual observation, offering excellent quality and a rich selection of accessories, making it the perfect companion for your astronomical explorations.

80ED Specifications:

Aperture: 80mm

Focal length: 560mm

Focal ratio: F7

Objective lens: Doublet lens design (includes 1 piece of ED glass)

Total length: 404mm (when the dew shield is contracted)

505mm (when the dew shield is stretched)

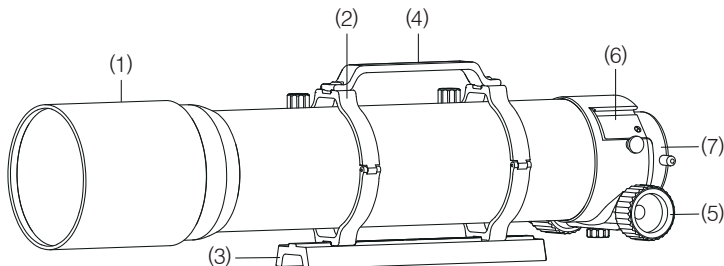
OTA weight: 1.7kg

Total weight: 2kg

Rear-end thread type: 2" adapter

Accessories: 80ED OTA, a pair of tube rings, a handle, a dovetail plate, an Warranty card, an Check list, a manual

Mechanism Instruction



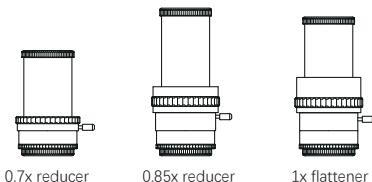
- (1) ①、The Askar 80ED's lens hood is retractable—it can be reversed and screwed in to reduce overall size when not in use, or extended to the front of the lens to minimize stray light.
 - ②、The lens features a name ring and product serial number for enhanced identification.
 - ③、The inner tube is designed with dual baffles to maximize stray light suppression, delivering stronger image contrast and clearer celestial details during astrophotography.
- (2) The tube ring is lightweight yet sturdy, equipped with thumb screws for easy use.
- (3) The 200mm standard Vixen-style dovetail plate is compatible with most equatorial mounts.
- (4) The top handle has a slotted design, allowing additional astronomical equipment to be mounted via screws.
- (5) The Askar 80ED's dual-speed rack-and-pinion 2-inch focuser enables coarse and fine focusing. The travel length is 7cm. The focuser base includes an enlarged locking screw, which can be easily locked even under high loads. Additional screw holes are available for installing the electronic focuser.
- (6) The 80ED features dual finder bases at both sides of the lens tube, eliminating the need for disassembly when repositioning the finder scope and providing extra mounting options for other accessories.
- (7) The rear of the 80ED is equipped with a 2-inch adapter with an internal copper-plated lining to prevent damage to connected devices.

Accessories Instruction

Three optional imaging accessories (sold separately)

All optimized for APS-C frame photography while supporting full-frame imaging. 0.85x reducer, 0.7x reducer, and 1x flattener, each featuring a built-in 360° rotator.

The 0.7x reducer achieves a fast focal ratio of F4.9.



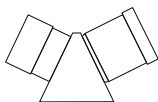
0.7x reducer

0.85x reducer

1x flattener

Five optional visual accessories (sold separately)

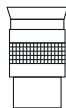
a 25x 8mm eyepiece, a 60x 20mm eyepiece, an a 1.25-inch erecting prism, 1.25" adapter, CPJ-2 tripod.



1.25-inch
erecting prism



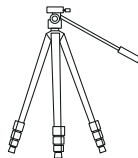
25x 8mm
eyepiece



60x 20mm
eyepiece



1.25" adapter

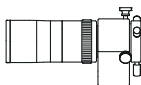


CPJ-2 tripod

Recommended Accessories:



ColourMagic C filter



32mm guide scope

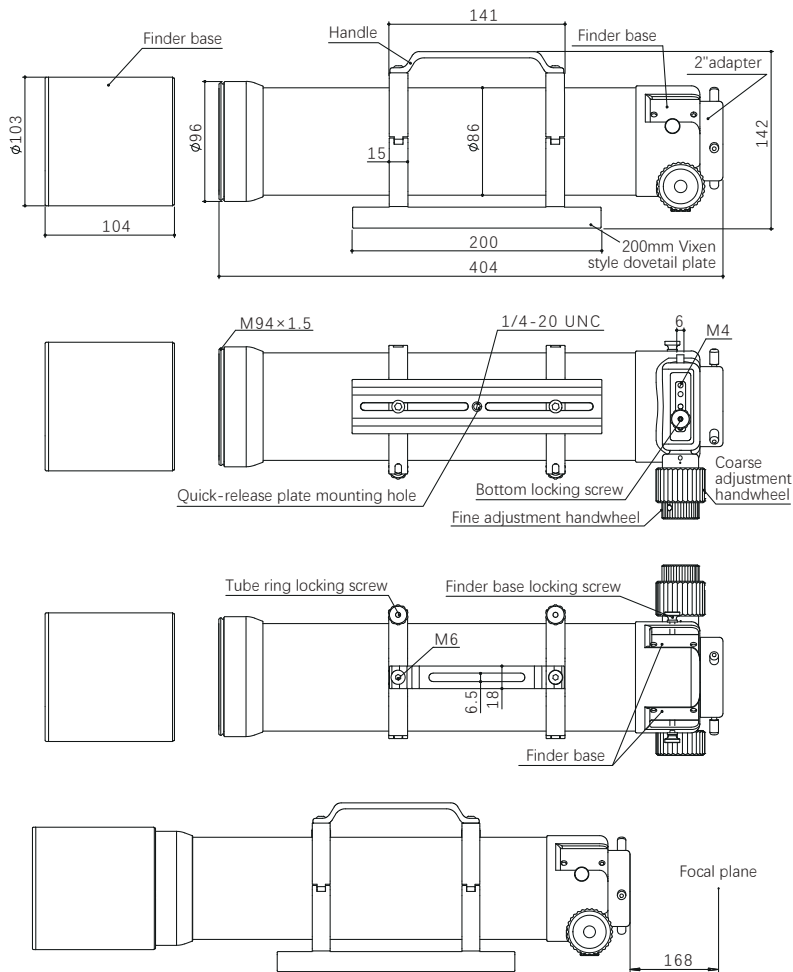


M54 Filter Drawer

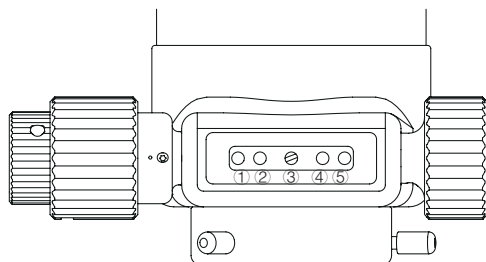


M54 OAG

Product Parts and the Size Diagram



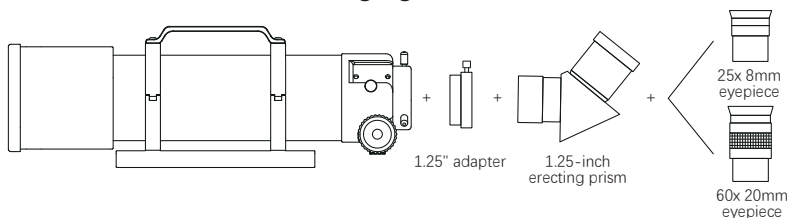
The Locking Screw Position Diagram



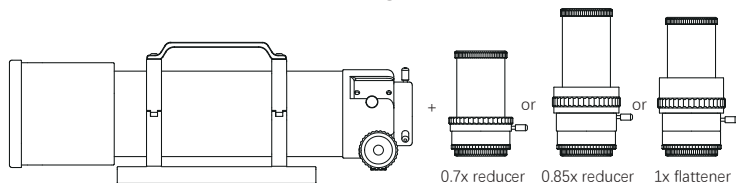
② Bottom Locking Screw

①③④⑤ Can be used for electric focusing bracket installation

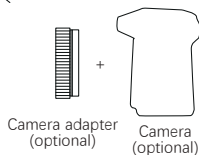
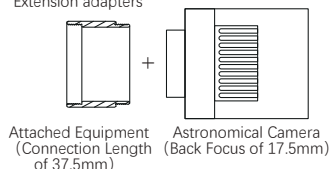
Imaging mode



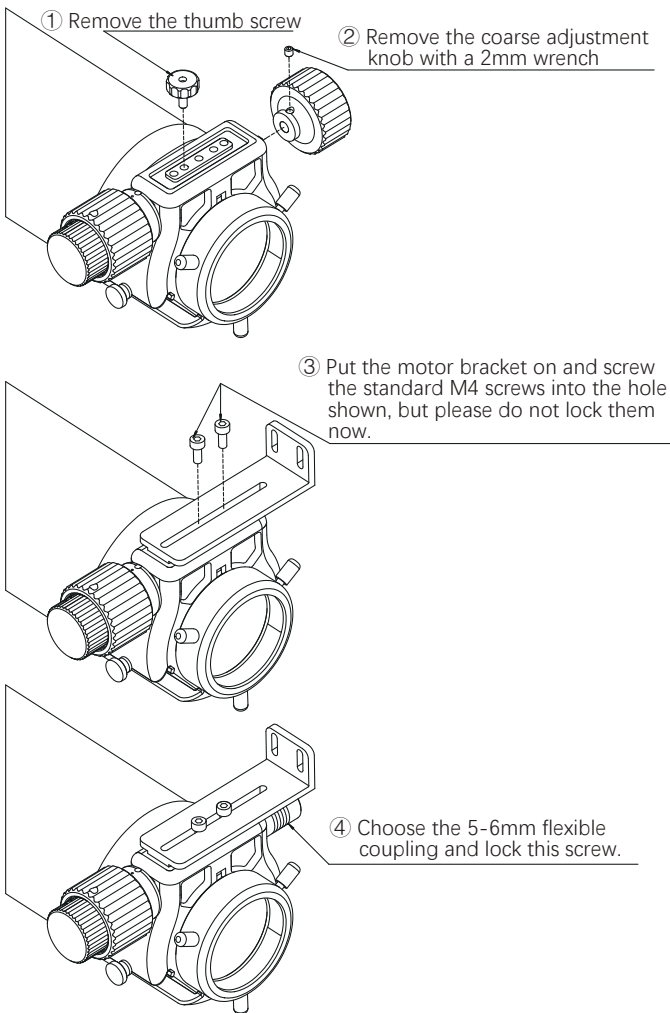
Observing mode

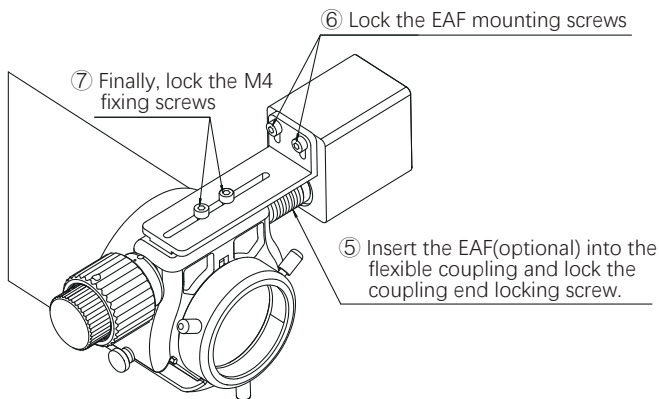


Various Specifications
Extension adapters

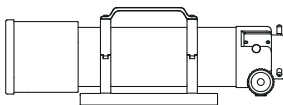


Steps of Installing EAF





Items in 80ED Packaging



80ED OTA



Instruction manual



Warranty card



Check list



Qualified certificate



 Official site



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