Askar

203 APO

■ User's Manual

WARNING!

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

www.sharpstar-optics.com

English

Instructions for use

The Askar 203APO is an OTA with a 203mm aperture, a 1421mm focal length, and a native focal ratio of F7. The Askar 203APO adopts a triplet air-spaced APO lens design, including one piece of ED glass.

With its large aperture and long focal ratio, the Askar 203APO was designed with portability in mind. The shortest overall length is 1145mm, the net weight is 18.5kg, and the gross weight is 23.5kg (including the handle, tube ring, and dovetail plate).

The Askar 203APO tube is crafted using high-quality CNC machining with anodized and surface spray paint treatments.Each piece of Askar 203APO is equipped with a unique name ring . The retractable design of the dew shield, along with the enlarged locking screws, provides convenient usage.

The 203APO tube ring has an enhanced triplet design. The thumb screws enable easy opening and locking of the tube rings. Meanwhile, the base of the tube rings is heightened, providing more space. The extended 402mm handle has a special slot design, making it also a base for installing a finder scope. The dovetail plate of the Askar 203APO is the standard Losmandy dovetail plate, which is compatible with most equatorial mounts and bases on the market. The dovetail plate is designed with multiple holes, which makes it easy to adjust the position. The length of the dovetail plate has been extended to 500mm, which is more convenient for balancing on the mount.

The rear lens tube of the Askar 203APO has an integrated retractable design. We strengthen the overall stability and ensure that the optical axis will not be affected when the lens tube is stretched, thus guaranteeing the quality of the image. The retractable part also features a rudder-type locking ring that makes it easy to loosen or tighten.

When the lens tube is stretched, the 203APO can be connected to a diagonal and an eyepiece for observation. When the lens tube is contracted, the Askar

203APO can be used with a binoviewer for visual observation.

In terms of the focuser, the Askar 203APO is equipped with a CNC-machined dual-speed R&P large 3.5-inch rigid focuser, which can be compatible with most motorized focusers on the market. The focuser provides 100mm focusing travel and is equipped with a high-precision, big 360° rotator. It adopts laser-engraved scales in the length direction and the circumference direction, which is convenient for adjusting and recording. It is also equipped with an enlarged rotator locking screw, preventing image shifting during shooting. Inside the focuser tube, there is an anti-reflective internal design and matting paint, providing extra measures to eliminate stray light.

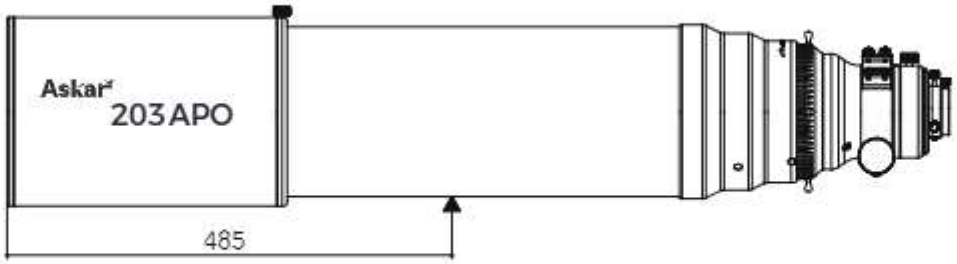
There are two finder bases on both sides of the focuser, which not only eliminates the need for disassembling when changing the position of the finder scope but also provides additional mounting positions for other astronomical accessories.

The Askar 203APO is an OTA that emphasizes the compatibility of observing equipment, with the rear of the focuser paired with a 1.25"/2" adapter for easy visualization. It can easily achieve focus when connected to 1.25" or 2" diagonals or various eyepieces. Because of the retractable lens tube design, it can also be attached to a binoviewer for visual observation.

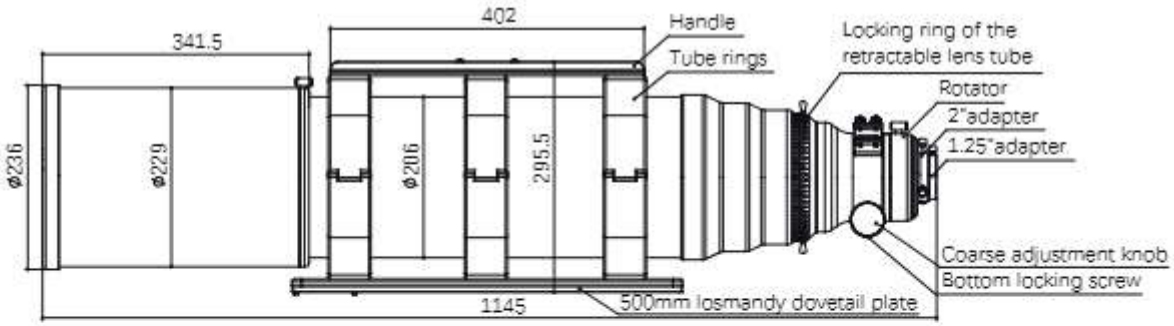
Rigid aluminum box, with wheels at the bottom for easy transportation. Mechanically positioned cutting PE foam inside, well-designed holes, and extra space reserved for electronic focuser installation.

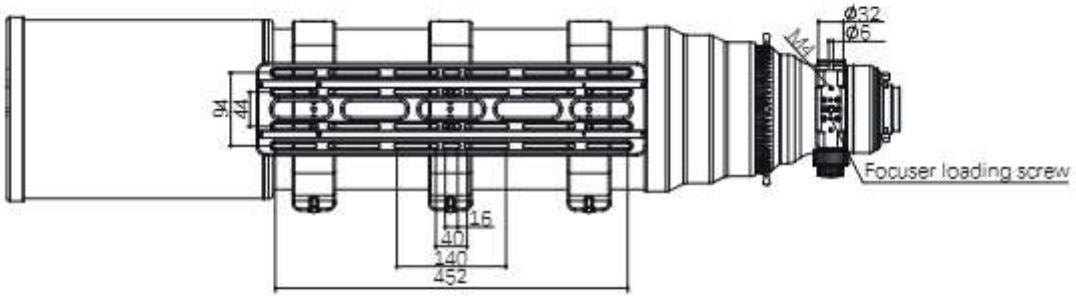
Aperture size: 203mm
Focal length: 1421mm
Focal ratio: f/7
Objective lens: Triplet air-spaced APO (including one ED glass)
Total length: 1145mm (when the dew shield is contracted)
1335mm (when the dew shield is stretched)
Net weight: 18.5kg
Gross weight: 23.5kg
Rear-end adapter: 1.25"adapter,2"adapter

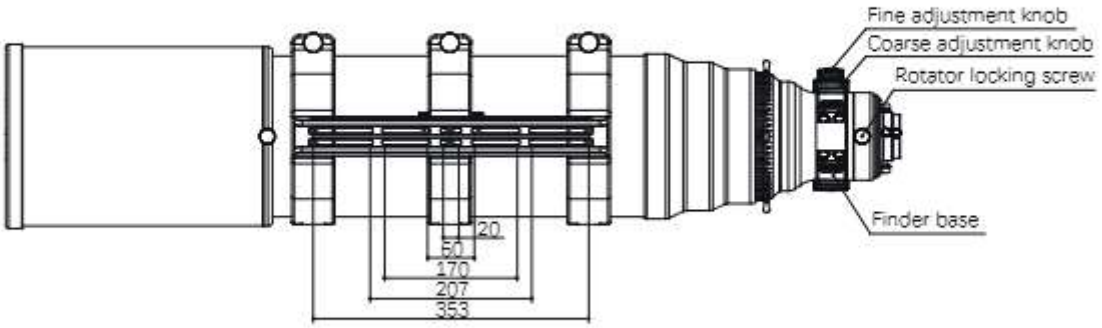
With all tubes contracted, remove the lens cap,
the center of gravity is about 540mm from the front end.



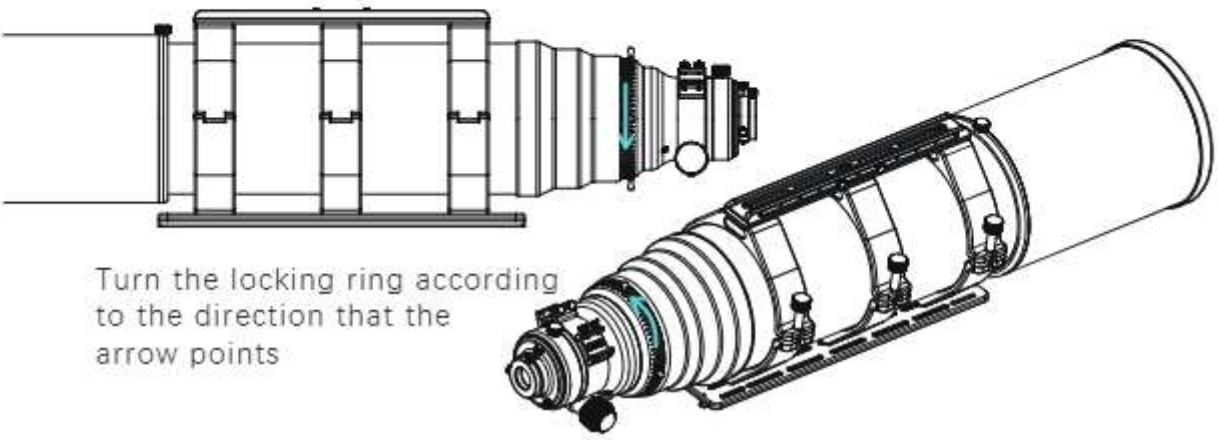
Product Parts and the Size Diagram



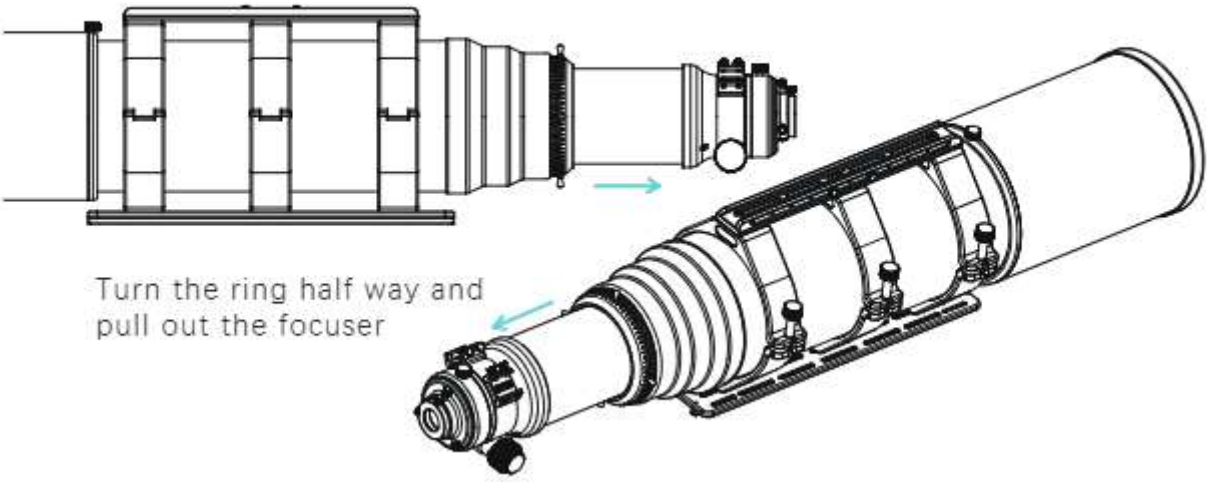




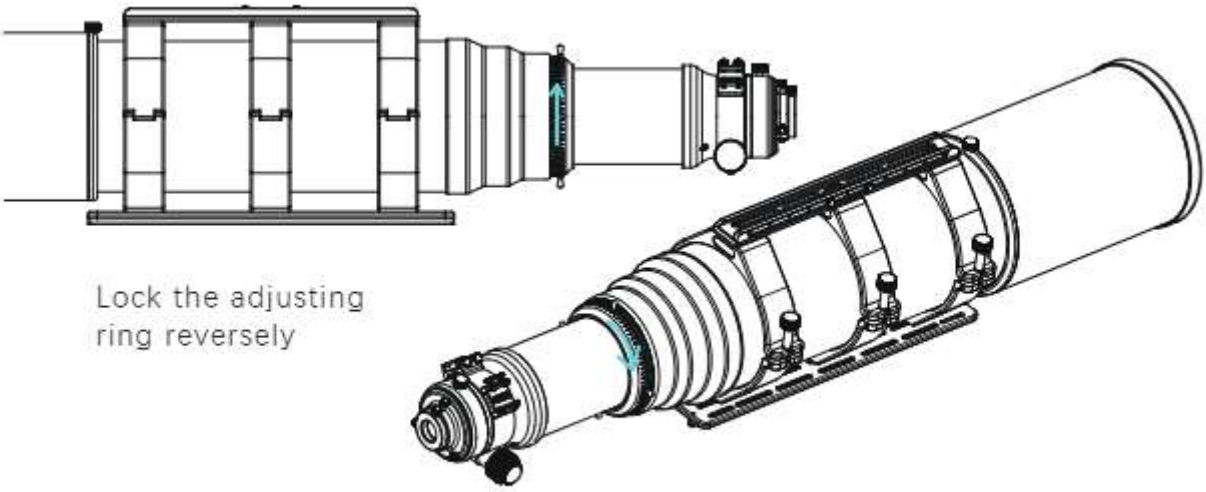
Instruction of the retractable lens tube



Turn the locking ring according to the direction that the arrow points

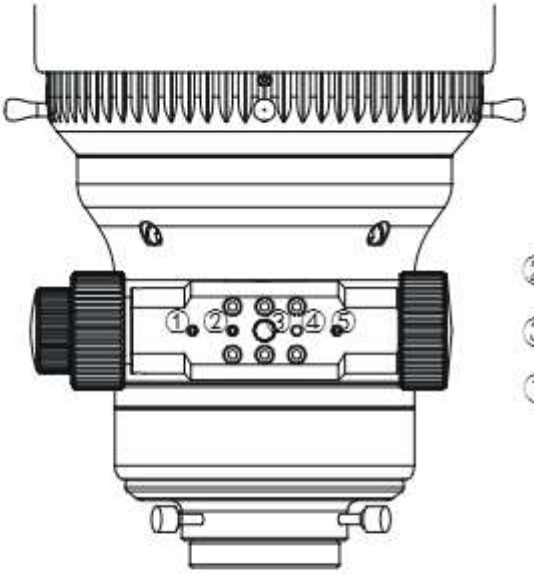


Turn the ring half way and pull out the focuser



Lock the adjusting ring reversely

The Locking Screw Position Diagram

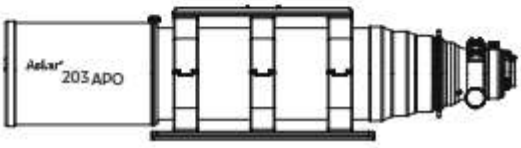


②Bottom Load Adjustment Screw

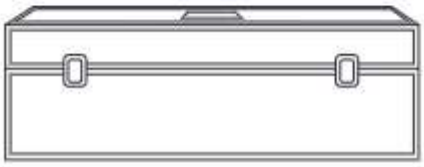
③Bottom Locking Screw

①③④⑤can be used for electric focusing bracket installation

Items in 203APO Packaging



an 203APO OTA, a group of tube rings, a handle, an Askar 500mm Losmandy dovetail plate



an aluminum case



Instruction manual



Warranty card



Check list



Qualified certificate



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