



FRA400C

User's Manual

WARNING

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

Instructions for use

The FRA400C is an OTA with an aperture of 72mm, a focal length of 400mm, and a native focal ratio of F5.6. It can be used for astrophotography, daily photography, and visual observation.

The FRA400C adopts a quintuplet air-spaced design, including 2 pieces of ED glass. It supports a 44mm full-frame image circle. The Petzval-like optical structure eliminates the need for specific back focus calculations. Between 50mm and 60mm connection distance, users can directly use it for shooting after the OTA is in focus.

The FRA400C is equipped with a retractable lens hood and an engraved nameplate ring inside.

The aperture ranges of FRA400C from F22 to F5.6, with marked scales on the tube for step-based adjustments to prevent accidental changes and preserve settings.

The FRA400C features an improved expandable tube ring with four sets of M4 and M6 threaded holes for different accessory mounting. Two finder bases are included for attaching astronomical accessories. At the bottom of the tube ring, the FRA400C designs a multi-functional handle, that includes multiple holes for mounting dovetail plates or equipment. It also has M6, 1/4", and 3/8" threaded holes for tripod mounting. The handle doubles as a carrying grip when the telescope is flipped.

Standard 290mm Vixen-style dovetail plate for smooth installation and handling.

One-speed helical focuser with a locking screw for easy use, it designs MXL-type synchronous gears, compatible with MXL timing-belt for Electronic focusers. The focus adjuster is an adjustable damping structure, which can increase the damping of the focus adjuster and make the use more stable in astrophotography. In daily photography, it can help the faster focus. The entire OTA can be rotated to adjust angles during imaging.

The FRA400C rear-end features a four-piece photographic adapter (M72-M54-M48) , with a built-in 2" filter thread in the M48 adapter. Includes 1.25" and 2" eyepiece adapters for visual observation.

FRA400C Specifications

Aperture: 72mm

Focal length: 400mm

Focal ratio: F5.6

Objective lens: Quintuplet petzval APO
(including two pieces of SD glass)

Total length: 370mm

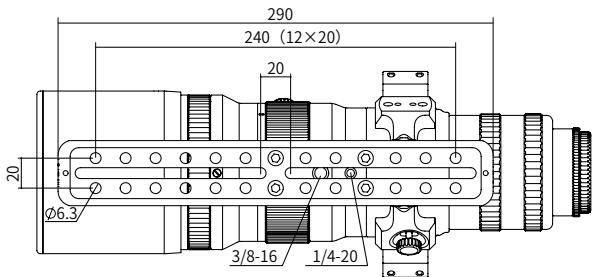
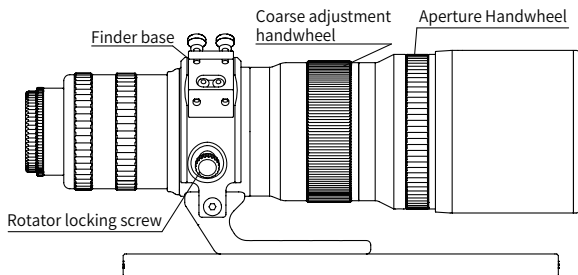
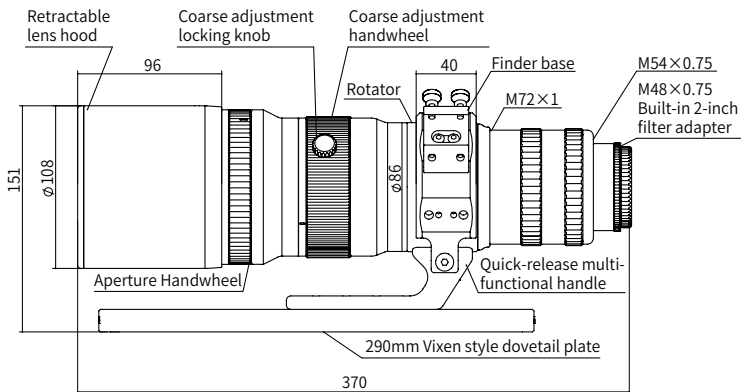
OTA weight: 2.68kg

Total weight: 3.18kg

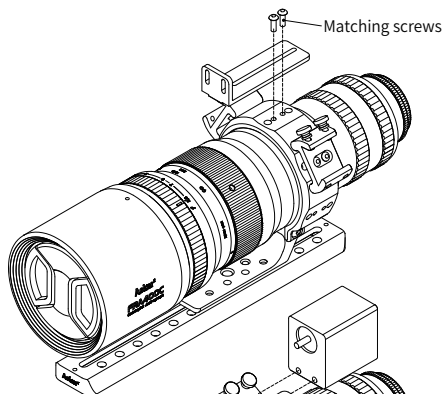
Rear-end thread type: M48 adapters,Built-in 2-inch filter adapter

Accessories: a FRA400C OTA(includes a four-piece photographic adapter), a 1.25" eyepiece adapter, a 2" eyepiece adapter, a pair of tube rings, a handle, a dovetail plate, an inspection list, a manual

Product Size Diagram



Steps of Installing EAF

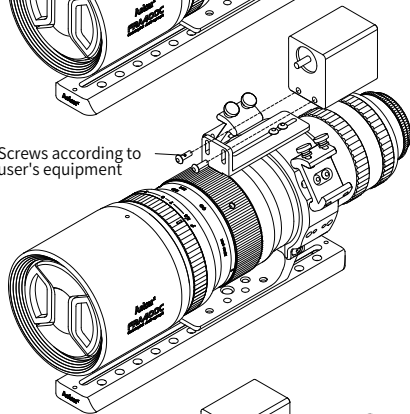


①

Unscrew the coarse adjustment locking screw, align the coarse adjustment ring scale with the infinity mark.

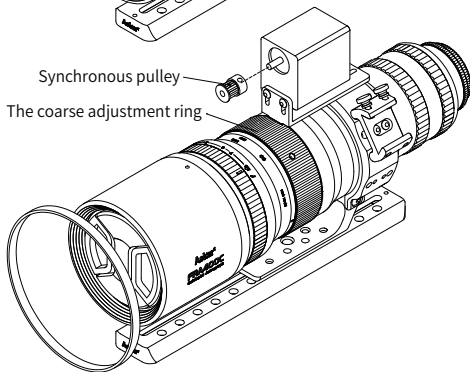
Align the central slot of the EAF motor bracket with M4 screw hole at the top of the tube ring and fix it with two original electric focuser locking screws.

Screws according to user's equipment



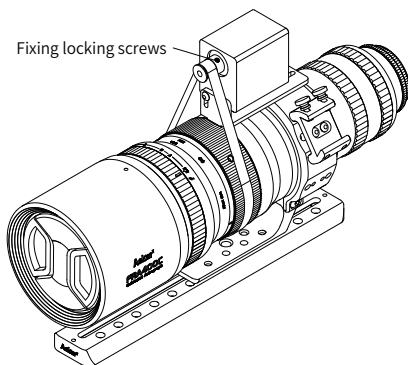
②

The user selects the screws according to the equipment, and fixes the electric focuser on the standard connection plate, but does not need to be tightened.



③

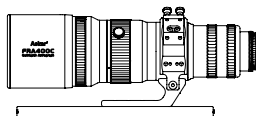
Slide the belt for the electronic focuser from the front of the lens to the coarse adjustment and install the synchronous pulley at the same time.



④

After assembly, lift the electric focuser upwards to tighten the synchronous belt, and then lock the step ② screws and the fixing screws of the synchronous pulley.

Items in FRA400C Packaging



FRA400C OTA



An 1.25" adapter



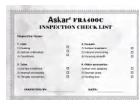
An 2" adapter



Instruction manual



Warranty card



Check list



Qualified certificate



 Official site



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