



60F *Flat-Field*

User's Manual

WARNING

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

Instructions for use

The Askar 60F is an OTA with an aperture of 60 mm, a focal length of 408mm, and a native focal ratio of F6.8. It is designed for both visual observation and astrophotography.

The Askar 60F features a quadruplet optical lens design (three elements in the front and one in the rear), including one piece of ED glass, which can effectively reduce chromatic aberration. The Askar 60F supports 44mm full-frame imaging with great performance of the surrounding star points.

The Askar 60F is a self-flattened design that allows for immediate imaging upon achieving focus when connected to imaging accessories (The maximum accessory connection from the base of M54×0.75 male thread is 99mm).

The Askar 60F OTA weighs only 2.36kg, and the gross weight is 2.86kg (including the tube rings、dovetail plate、handle).

The Askar 60F also comes standard with a photographic extension tube with an internal 2-inch filter thread; it has M48×0.75&M54×0.75 adapters, making it compatible with different cameras for quick connection and instant shooting.

The Askar 60F features a retractable dew shield, further reducing overall length and enhancing portability. The inside of the tube is pasted with matting felt to better eliminate stray light, while the exterior sports a sleek blue-and-white color scheme with high-quality CNC machining and paint finish.

On the handle bar of Askar 60F, it has a finder base slot. Besides, 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.

In terms of the focuser, the Askar 60F is equipped with a dual-speed R&P 2.4-inch rigid focuser, offering 1:10 fine-tuning. The fine adjustment knob has an anti-slip cover, and the rear features a 360° scale rotator for precise angle adjustment.

The dovetail plate is a 230mm standard vixen-style plate, with 1/4" and 3/8" screw holes, allowing direct connection to a tripod.

The rear interface of the Askar 60F includes both 2-inch and 1.25-inch adapters, enabling compatibility with a wide range of astronomical accessories.

60F Specifications:

Aperture size: 60mm

Focal length: 408mm

Focal ratio: F6.8

Objective lens: Quadruplet air-spaced APO (including one ED glass)

Image circle: 44mm

Maximum accessory connection (with the focuser fully retreated) :

Imaging mode:

81mm (from the base of M48×0.75 male thread)

99mm (from the base of M54×0.75 male thread)

Observing mode:

120mm (from the end of 1.25" eyepiece holder)

130mm (from the end of 2" eyepiece holder)

Total length:

289mm (including 1.25" adapter as dew shield contracted)

323mm (including 1.25" adapter as dew shield fully stretched)

336mm (including the photographic adapter as dew shield contracted)

369mm (including the photographic adapter as dew shield fully stretched)

Net weight: 2.36kg

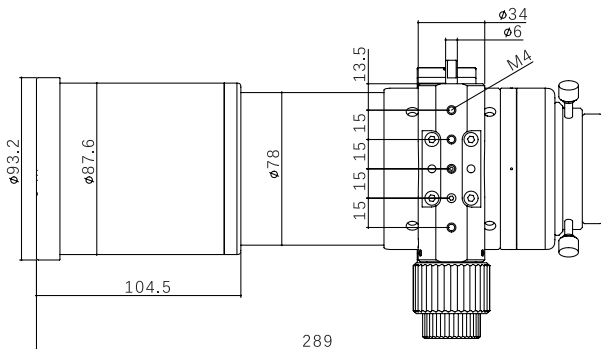
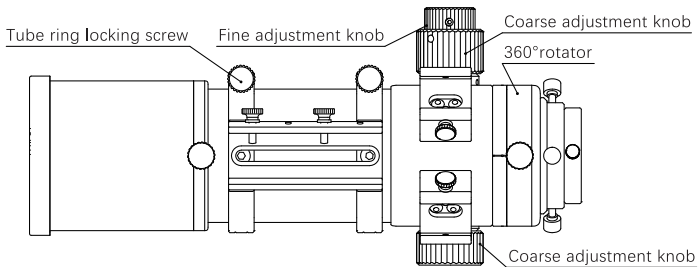
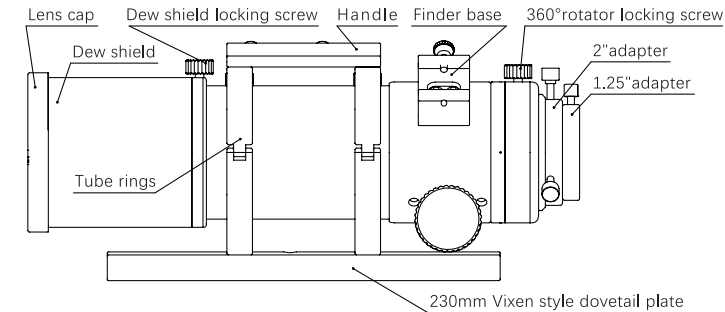
Gross weight (Including tube ring&dovetail plate) : 2.86kg

Rear-end thread type: M64×0.75-M54×0.75

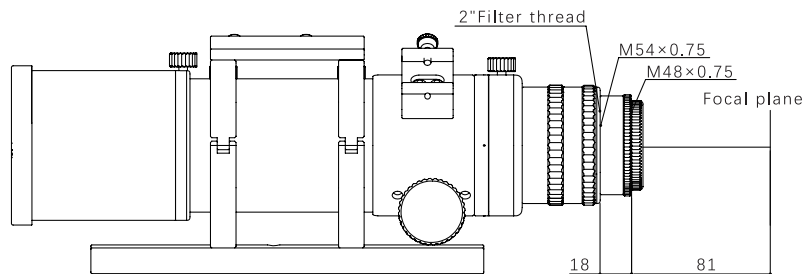
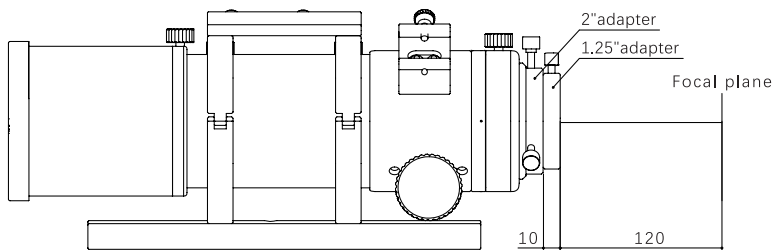
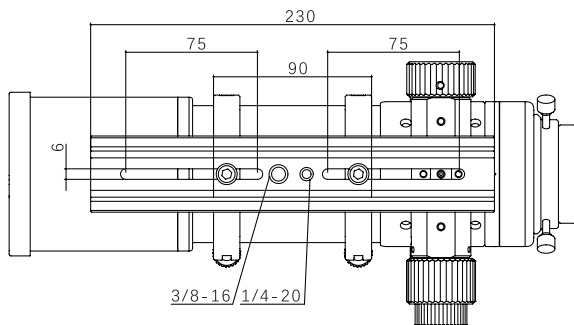
M54×0.75-M54×0.75

M54×0.75-M48×0.75 (with M48×0.75 filter thread)

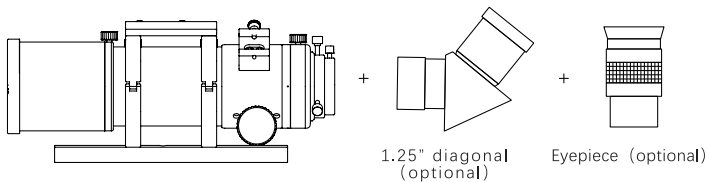
Product Parts and the Size Diagram



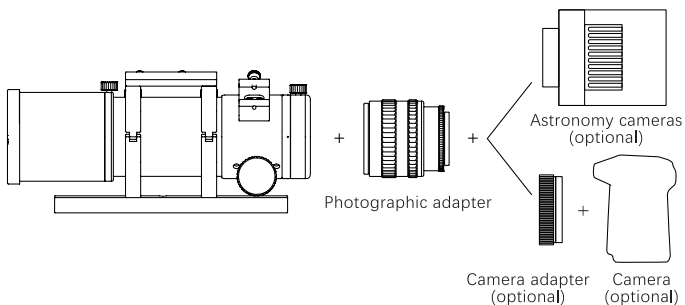
Dimension (when the dew shield is contracted)



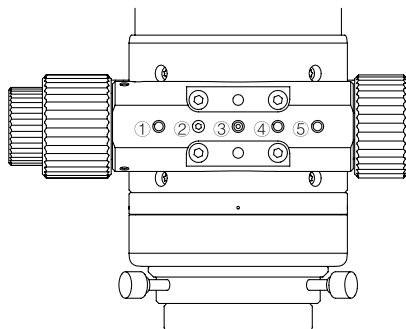
Observing mode



Imaging mode

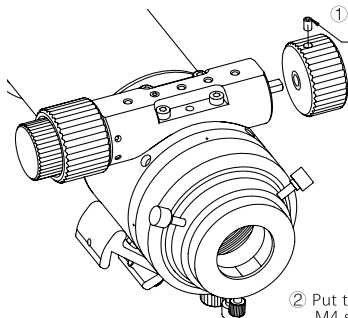


The Locking Screw Position Diagram

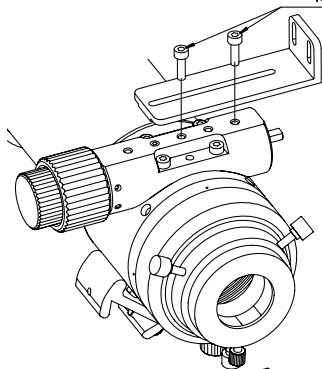


- ② Bottom Load Adjustment Screw
- ③ Bottom Locking Screw
- ①③④⑤ Can be used for electric focusing bracket installation

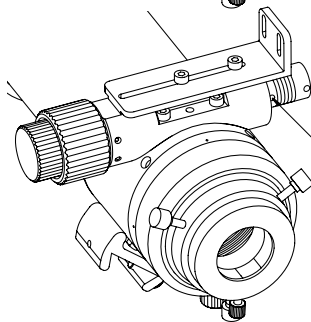
Steps of Installing EAF



- ① Use a 2mm wrench to loosen the screw and remove the coarse adjustment knob
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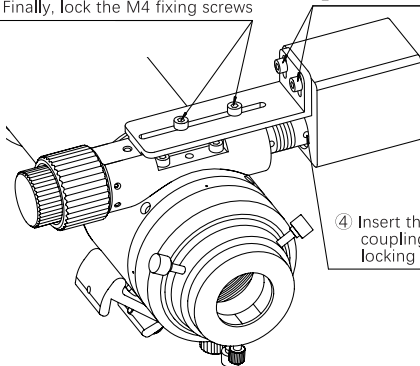
- ② Put the motor bracket on and screw the standard M4 screws into the hole shown, but please do not lock them now.
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- ③ Choose the 5-6mm flexible coupling and lock this screw.
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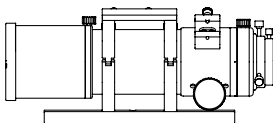
⑥ Finally, lock the M4 fixing screws

⑤ Lock the EAF mounting screws



④ Insert the EAF(optional) into the flexible coupling and lock the coupling end locking screw.

Items in 60F Packaging



60F OTA



a set of photographic adapters



Instruction manual



Warranty card



Check list



Qualified certificate



 Official site



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