

Askar

111F *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 111F is an OTA with an aperture of 111mm, a focal length of 766mm, and a native focal ratio of F6.9. It is designed for both visual observation and astrophotography.

The telescope 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, and supports 44mm full-frame imaging. With its self-flattened design, after attaching the imaging accessories, users can directly use it for shooting after the OTA is in focus. (The maximum accessory connection from the base of M48×0.75 male thread is 73mm).

The retractable dew shield helps reduce overall length and improves portability. The lens tube is manufactured using high-quality CNC machining and paint finish, and it also includes an internal baffle to effectively suppress stray light.

On the handle bar of Askar 111F, it has a finder base slot. Besides, there are two finder bases on both sides of the focuser. This allows flexible adjustment of the finder scope position without disassembly and provides additional options for attaching other astronomical accessories. The tube rings feature CNC-machined thumb screws and a clamshell opening design, enabling tool-free installation and removal.

The Askar 111F is equipped with a 3-inch rack-and-pinion dual-speed focuser, supporting 1:10 fine focusing. The focuser features an integrated field rotator at the rear, with the focuser

inner tube marked in 360° increments for precise framing. It includes a 300mm standard Vixen-style dovetail plate with 1/4" and 3/8" screw holes for direct tripod mounting.

The rear interface of the Askar 111F includes both 2-inch and 1.25-inch adapters, enabling compatibility with a wide range of astronomical accessories. Additionally, the Askar 111F comes standard with a 4-section photographic extension tube, which features a built-in 2-inch filter thread

for easy attachment of filters. It is also equipped with M48×0.75 and M54×0.75 photographic adapters to fully meet diverse shooting needs.

111F Specifications:

Aperture size: 111mm

Focal length: 766mm

Focal ratio: F6.9

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

Image circle: 44mm

Maximum accessory connection (with the focuser fully retracted) :

Imaging mode:

73mm (from the base of M48×0.75 male thread)

91mm (from the base of M54×0.75 male thread)

Observing mode:

132mm (from the 1.25" eyepiece adapter)

142mm (from the 2" eyepiece adapter)

Minimum accessory connection (with the focuser fully extended):

Imaging mode:

42mm (from the base of M48×0.75 male thread)

60mm (from the base of M54×0.75 male thread)

Observing mode:

101mm (from the 1.25" eyepiece adapter)

111mm (from the 2" eyepiece adapter)

Total length:

664mm (including 1.25" adapter, fully retracted)

751mm (including 1.25" adapter, dew shield extended)

728mm (including the photographic extension tube, fully retracted)

815mm (including the photographic extension tube, dew shield extended)

Net weight: 5.74kg

Gross weight (Including tube ring & dovetail plate) : 6.76kg

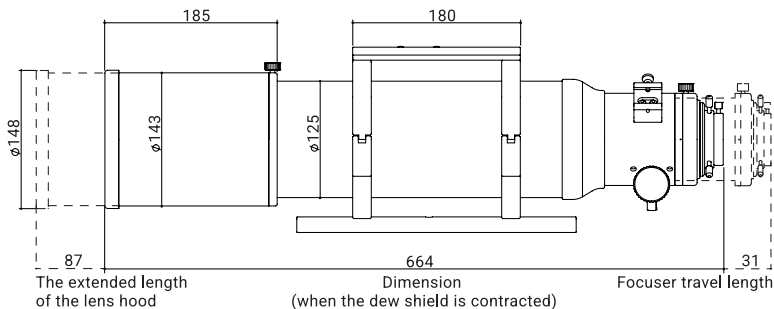
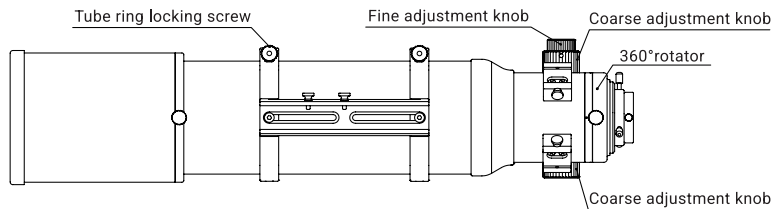
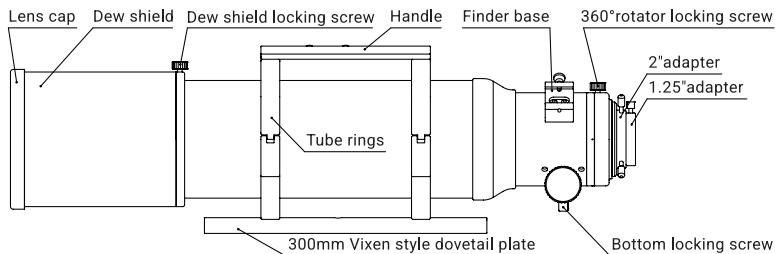
Rear-end thread type: M78×1-55mm extension adapter

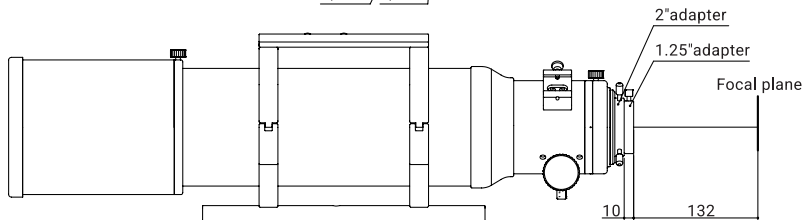
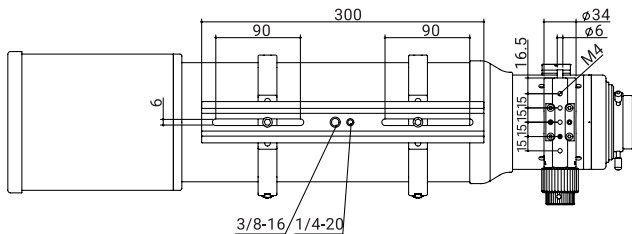
M78×1-M54×0.75

M54×0.75-M54×0.75

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

Product Parts and the Size Diagram

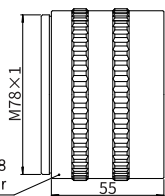




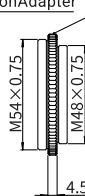
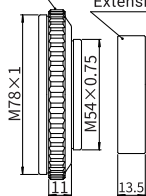
M54Adapter
(built-in reducer mounting thread)

M54
ExtensionAdapter

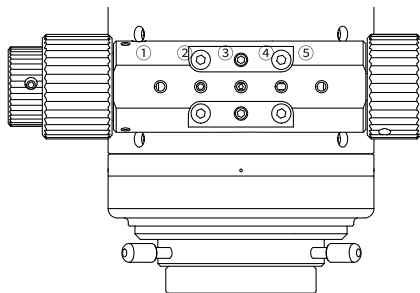
M48Filter Adapter
(built-in 2-inch filter thread)



M78
Extension Adapter



The Locking Screw Position Diagram

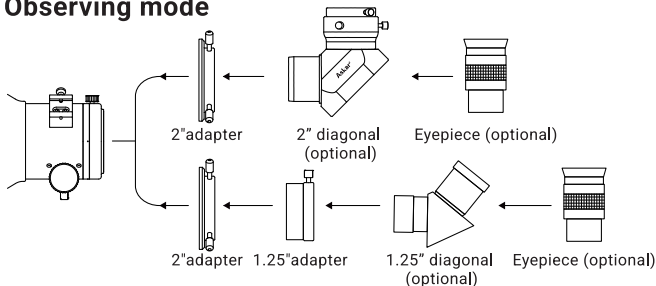


② Bottom Load Adjustment Screw

③ Bottom Locking Screw

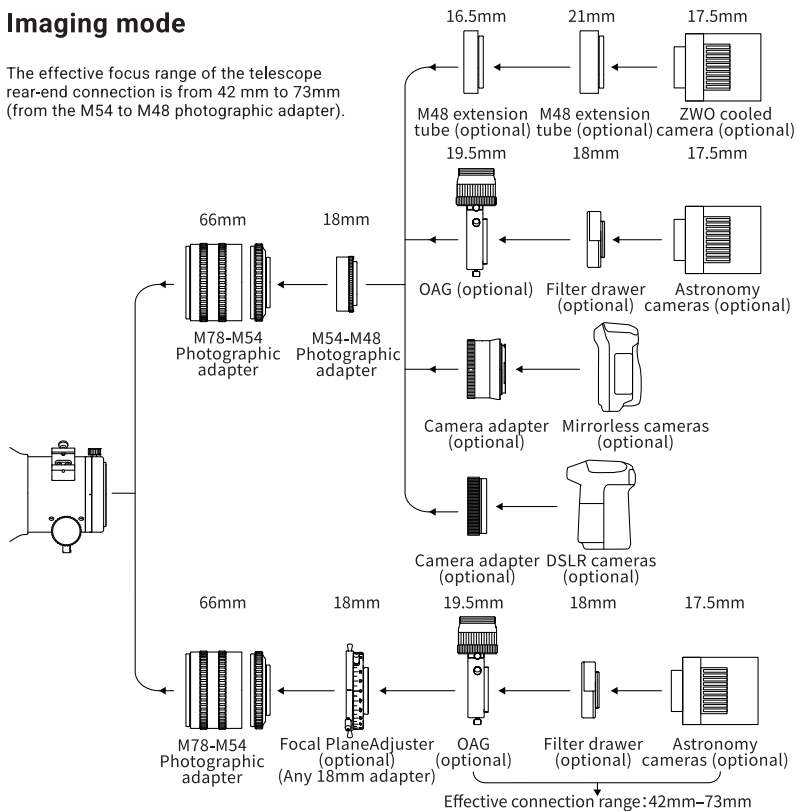
①③④⑤ Can be used for electric focusing
bracket installation

Observing mode

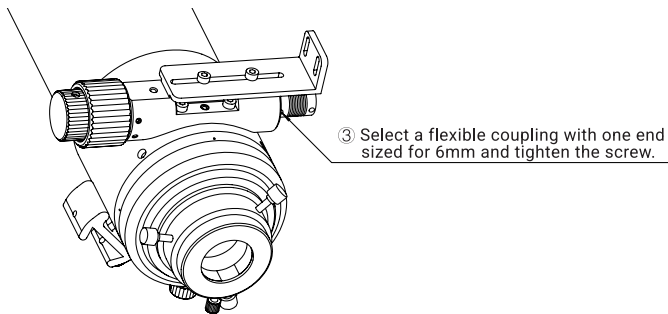
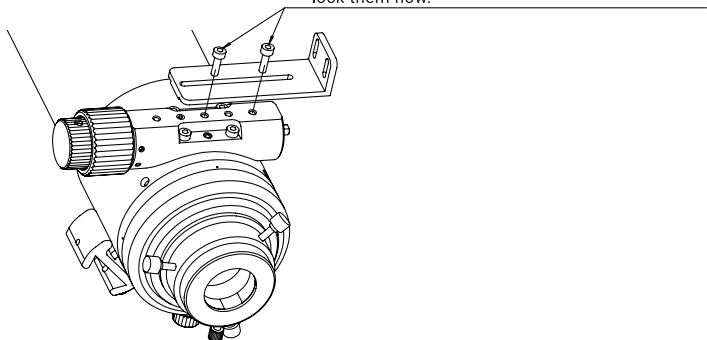
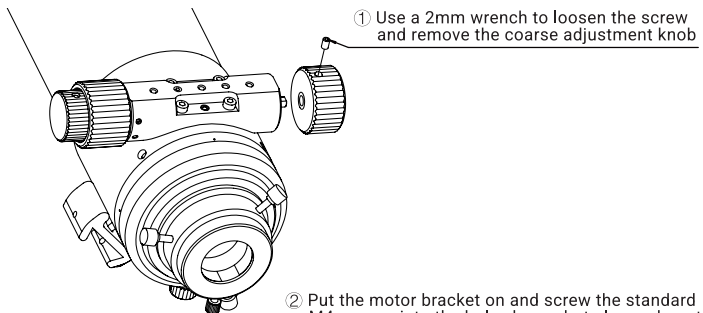


Imaging mode

The effective focus range of the telescope rear-end connection is from 42 mm to 73mm (from the M54 to M48 photographic adapter).

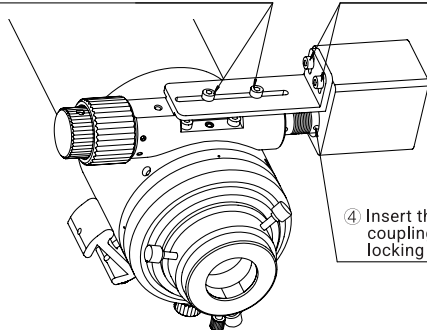


Steps of Installing EAF



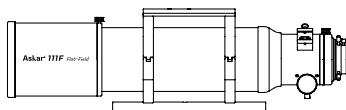
⑥ Finally, lock the M4 fixing screws

⑤ Lock the EAF mounting screws

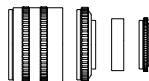


④ Insert the EAF(optional) into the flexible coupling and lock the coupling end locking screw.

Items in 111F Packaging



111F OTA



Four-section photographic extension tube



Instruction manual



Warranty card



Check list



Qualified certificate



 Official site



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