



SQA55

User's Manual

WARNING

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



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Instructions for use

The SQA55 is an OTA with an aperture of 55mm, a focal length of 264mm, and a native focal ratio of F4.8. The SQA55 has great star point performance in astrophotography and photography.

The SQA55 adopts a quintuplet air-spaced design, including 1 piece of SD glass and 1 piece of ED glass. It supports 44mm full-frame imaging.

The SQA55 is a petzval lens structure, due to the self-flattened design, users do not need to calculate specific back focus, between 50mm and 60mm connection distance, users can directly use it for shooting after the OTA is in focus. (The recommended connection length is 55mm.)

The inside of the lens tube with matte lines and overall matte paint coating minimises stray light.

The lens hood is fixed by a slot, when it's not in use, it can be stored on the lens barrel in reverse to reduce the overall volume, and when using it, it only needs to be stuck on the lens.

The front of the lens is designed with an M67 filter thread which can be connected to camera filters, convenient for daily photography. Rear-end is equipped with a M48 adapter, which has a built-in 2" filter thread for direct connection.

The aperture range of the SQA55 is from F22 to F4.8, with a graded adjustment ring and a scale labeled on the lens tube to prevent accidental touching and save the adjustment parameters.

The handle features a multifunctional finder scope base slot

that can mount a variety of astronomical accessories. The handle is a quick-release design and can be removed and installed without additional tools.

The bottom bracket has 1/4 and 3/8 screw holes for attaching a tripod.

The bottom of it's standard Vixen-style 200mm dovetail plate is designed with hand screws and a quick-release knob, which can be disassembled and assembled without additional tools. The SQA55 adopts a dual-speed focuser design, with both fine and coarse adjustments that can be adjusted independently.

The fine adjustment designs a central indicator point, a focusing travel of $\pm 1\text{mm}$, and a locking screw.

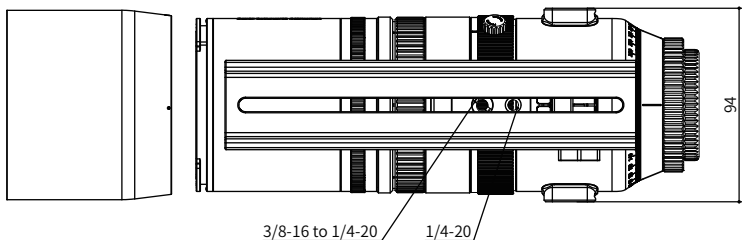
The coarse adjustment is engraved with a reference scale for focusing distance in both imperial and metric markings. In daily photography, focusing can be adjusted according to the focusing scale. The coarse adjustment handwheel is equipped with MXL-type timing teeth, which can be used with a timing belt to mount an electronic focuser.

For astrophotography, the coarse adjustment can be rotated to the infinity mark for focusing, and there is still a certain amount of leeway after the infinity mark.

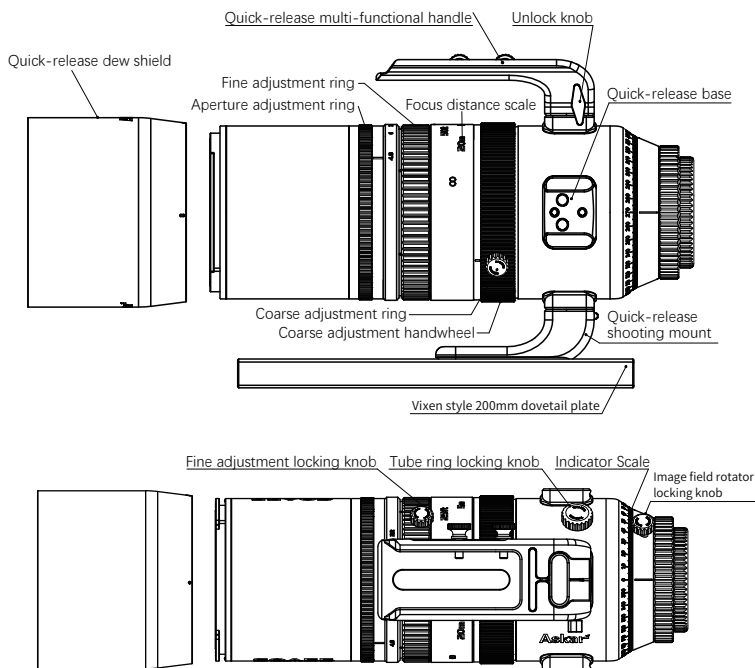
Coarse adjustment is also designed with a locking screw for individual adjusting.

Four multi-functional quick-release bases on the rear of the lens tube can be used to connect various accessories for photography and astrophotography.

The SQA55 lens tube and 360° rotator both have independent locking screws. For daily shooting, the whole body can be rotated. For astrophotography, the high-precision rotator can be rotated independently, while the rotator is engraved with a scale, which is convenient for adjusting and saving the angle.



Product Parts



SQA55 Specifications

Aperture: 55mm

Focal length: 264mm

Focal ratio: F4.8

Objective lens: Quintuplet air-spaced Petzval APO

Total length: 316mm (including dew shield);

244mm (without dew shield)

OTA weight: 1.84kg

Total weight: 2.18kg

Rear-end adapter: M48*0.75 (with M48*0.75 filter thread)

Accessories: a SQA55 OTA, a military-grade waterproof hand-carrying case, an inspection list, a manual

Product Size Diagram

