

StellaBino-50ED

- Operation Manual -

The basic usage of StellaBino-50ED is the same as IF binoculars. First, insert the eyepieces into both eyepiece adapters and fix them firmly. Then, rotate the helical focusers <A> to adjust the focus on the left and right, and fold the center axis to adjust the interpupillary distance.

<A>: Rotary Helical focusers. When adjusting the focus, rotate only these parts.

NOTICE: Do not try to rotate them farther when fully pushed in or fully pulled out. (This may rotate the tubes for collimation use and cause misalignment.)

<B/C>: Eccentric rings for collimation. StellaBino-50ED is precisely pre-collimated before shipment, so there is no need for re-adjustment under normal use. Do not loosen B and C rings unless you feel misalignment.

※If you should feel misalignment, you can make adjustment with the following procedure:

- 1) Fix StellaBino-50ED firmly to a tripod and focus on any object at infinity (or at least over several hundred meters away).
- 2) Slightly loosen both B and C rings on one side, and rotate the tube between C and B, and between B and A, to adjust the misalignment as appropriate.
- 3) Once the misalignment has been adjusted, lightly tighten both the rings.
- 4) This tightening may cause another small misalignment, so try to make further fine adjustment again.
- 5) Repeat steps 3) and 4) above, and when the visual axes are well aligned while still lightly tightened, tighten both B and C firmly to be well-fixed.

NOTICE: Always loosen only one side of the rings. Loosening both sides at the same time will make the work extremely difficult.

<D>: Threaded hole for a tripod adapter. Firstly, rotate the cover counterclockwise to remove it, then screw in the dedicated tripod adapter, and tighten it firmly with a hex wrench to secure it.

NOTICE(1): As the gap between both the tubes of StellaBino-50ED is very narrow, most conventional tripod adapters can't be attached. Please be sure to use a dedicated tripod adapter.

NOTICE(2): Due to the adjusting work of the parallelism of both the tubes, slight misalignment (centering error) may occur in the optical axis of each individual scope. This may result in slight asymmetry of peripheral images at low powers and slightly deformed star images at high powers. These phenomena are inevitable when using very short-focus (=axis-sensitive) ED Apo lenses for binoculars that prioritize the parallelism of both the scope tubes. Please understand this fact as an inherent characteristic of binoculars.

***For Advanced Users only:** To pursue still better collimated state, it's also advisable to try to slightly change the rotation angle of the ED objective lens(es) to find the point that yields the best star images.



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