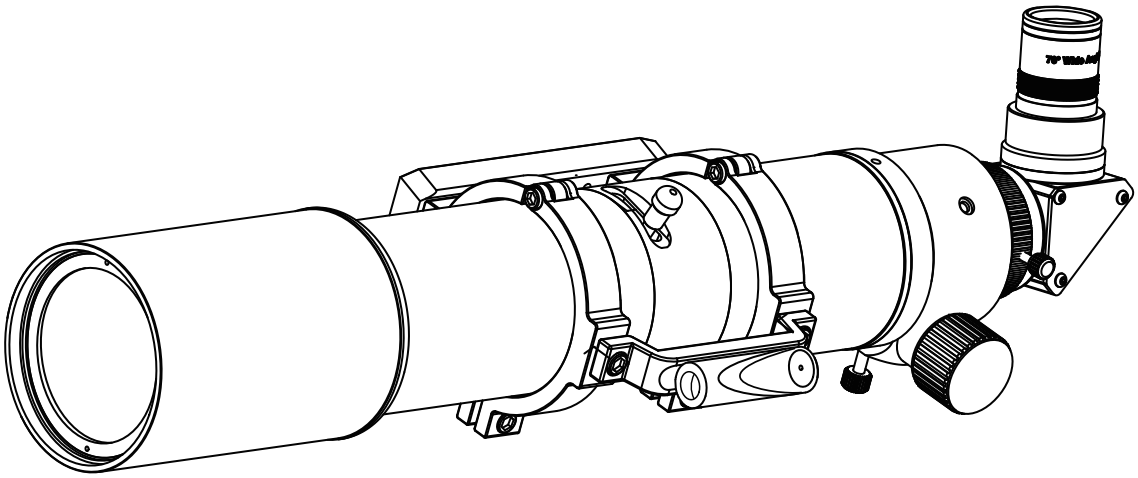
INSTRUCTION MANUAL

HELIOSTAR 76Hα



Conforms to and meets the Transmission Requirements of ISO 12312-2, Filters for Direct Observation of the Sun

The permanently mounted glass solar filters in this product:

Conform to and meet the Transmission Requirements of ISO 12312-2, Filters for Direct Observation of the Sun

202410V1

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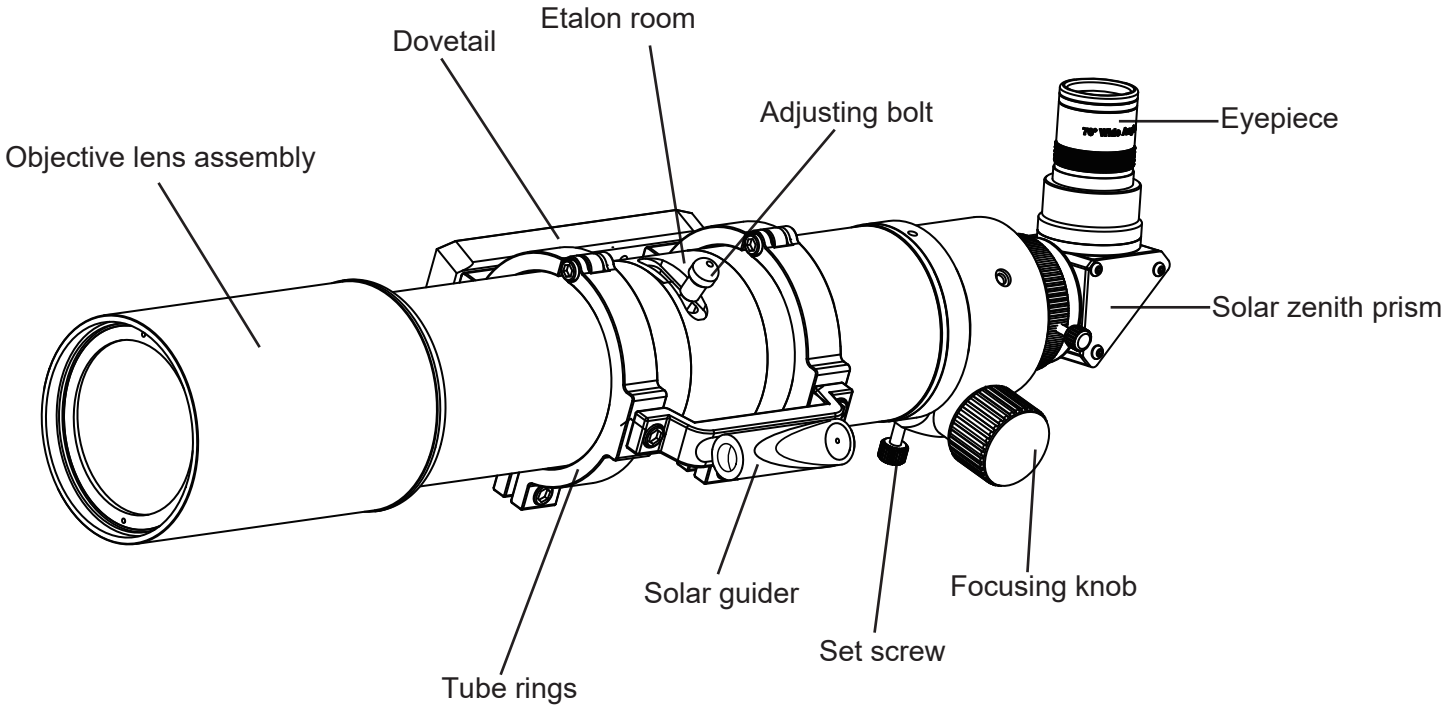
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PART I : INTRODUCTION

1.1 Specification

Product name	Heliostar 76α
Weight	3.8Kg
Length	590mm
Aperture	76mm
Focal Length	630mm
Bandwidth	＜0.5Å

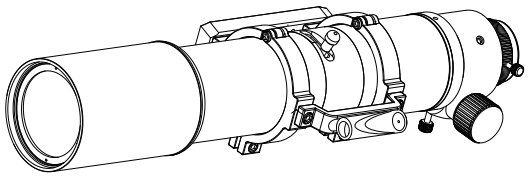
1.2 Main parts of Heliostar 76α



PART II: Observing the Sun

2.1 Installation

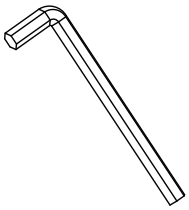
2.1.1 The main parts of Heliostar 76α are as shown below:



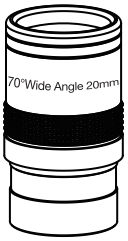
OTA



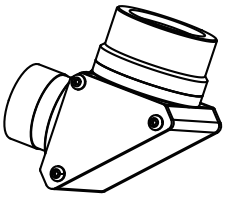
2.5mm Allen key



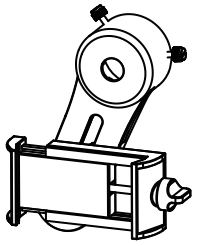
5mm Allen key



70°Wide Angle
20mm eyepiece



Solar zenith prism



Smart phone adapter

2.1.2 Attach the dovetail to the saddle and lock the knobs.

2.1.3 Install the zenith prism and eyepiece, then fasten them with knurled screws, and remove the cap (Fig.1).

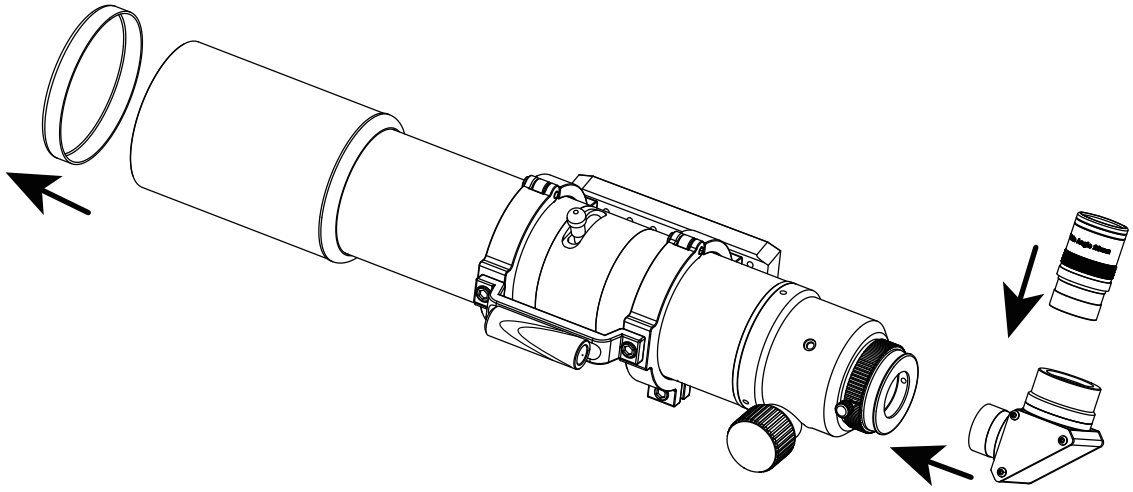


Fig.1

2.2 Observation procedure

2.2.1 Place the telescope in an open area with sunlight.

2.2.2 Look into the solar guider:

(1) You can see the plane projection at the front end. Then, adjust the solar guider by pressing the buttons on the mount until there is no projection in the solar guider (Fig.a) .

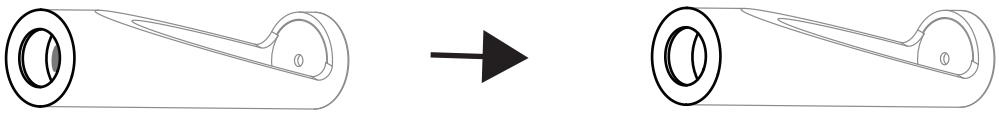


Fig.a

(2) Find the position of shadow in the slot and press the buttons on the mount to adjust the solar guider until the position of shadow is in the middle of pinhole (Fig.b) .

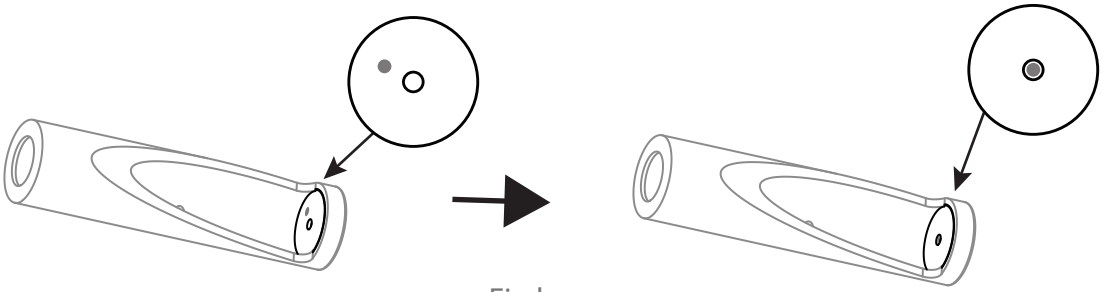


Fig.b

(3) Look at the projection glass directly, and press the buttons on the mount to adjust the solar guider until the shadow is in the middle (Fig.c) .

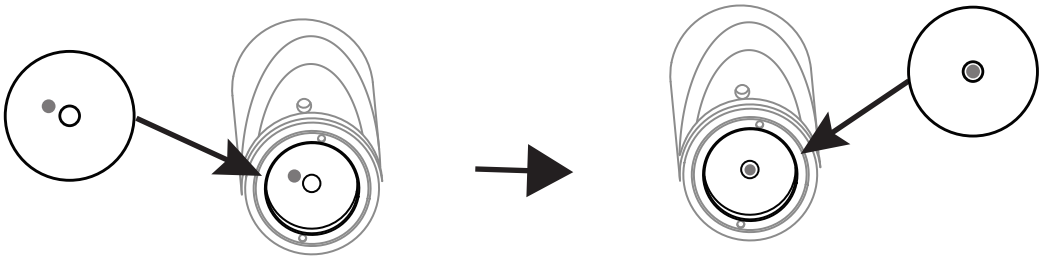


Fig.c

2.2.3 Loosen the set screw and rotate the focusing knob to fast focusing (Fig.3).

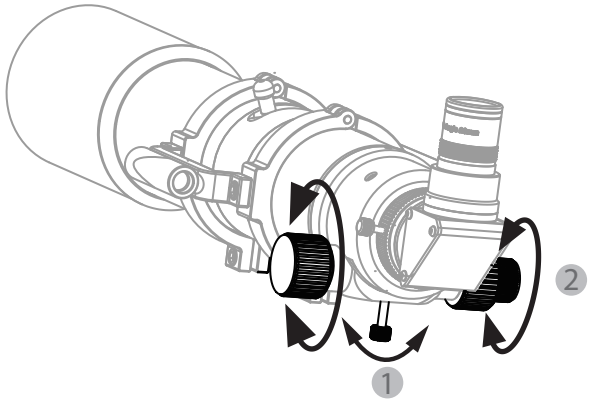


Fig.3

2.2.4 Fine-tune the adjusting bolt left and right until the prominence in the eyepiece is nearly sharp (Fig.4).

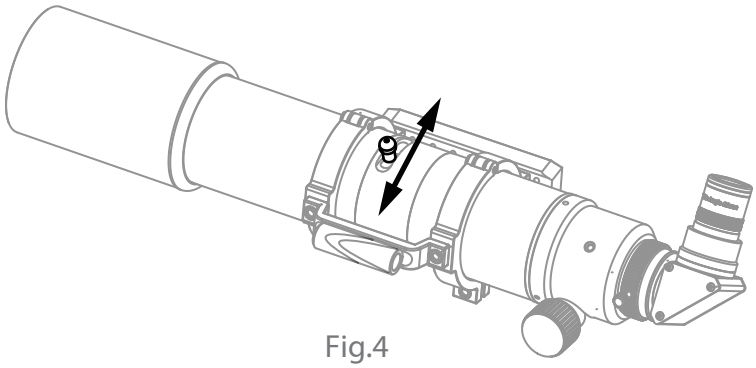


Fig.4

NOTE: *The Heliostar 76α telescope should be placed outside for more than half an hour before every use to ensure that the temperature inside and outside the ETALON house is constant, which will make the observation and shooting effect better.*

PART III: Using the parts

3.1 Using the light shield

After the telescope is adjusted, take out the light shield from the case and attach it to the tube as shown in Figure 5, then you can start observing the prominance cozily(Fig.5).

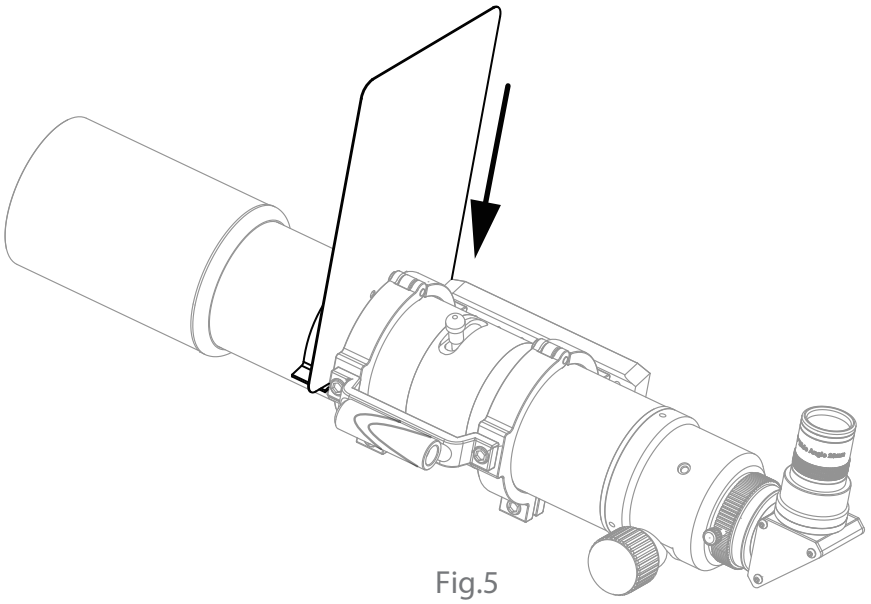


Fig.5

3.2 Using the smartphone adapter

See the smartphone adapter manual for details.

PART IV: Maintenance

The telescope must be stored correctly to ensure proper functionality and longevity. Always place the dust caps onto the telescope when not in use.
Cleaning the telescope optics can be done with a lint free cloth. Do not use abrasive materials or aggressive chemicals as these will damage the optical surfaces. Small amounts of dust can collect onto the telescope front lens over time. This will not affect the performance and should only be cleaned if it has accumulated.
Avoid touching the front element of the telescope.
Do not submerge the telescope or any parts in the water. Do not dismantle the telescope. There are no user serviceable parts inside this telescope.

PART V: Safety Instructions

Conforms to and meets the Transmission Requirements of ISO 12312-2, Filters for Direct Observation of the Sun

The system adopts a variety of ways to effectively eliminate the light that is harmful to human eyes, and is certified by EN ISO 12312-2:2015 "Eye and face protection - Sunglasses and related eye and face products - Part 2: Filters for direct observation of the sun", which does not cause any harm to the human eye and can be used with confidence.

CAUTION!



WARNING: THE SUN CAN ONLY BE OBSERVED IN PROMINENCE MODE BECAUSE WE HAVE VERY PROFESSIONAL SOLAR FILTERS THAT ARE CERTIFIED FOR SAFETY. IT IS STRICTLY FORBIDDEN TO WATCH THE SUN IN OTHER MODES, OTHERWISE THE POWERFUL HEAT AND LIGHT OF THE SUN WILL CAUSE PERMANENT AND IRREVERSIBLE DAMAGE TO THE HUMAN EYES AND THE EQUIPMENT.