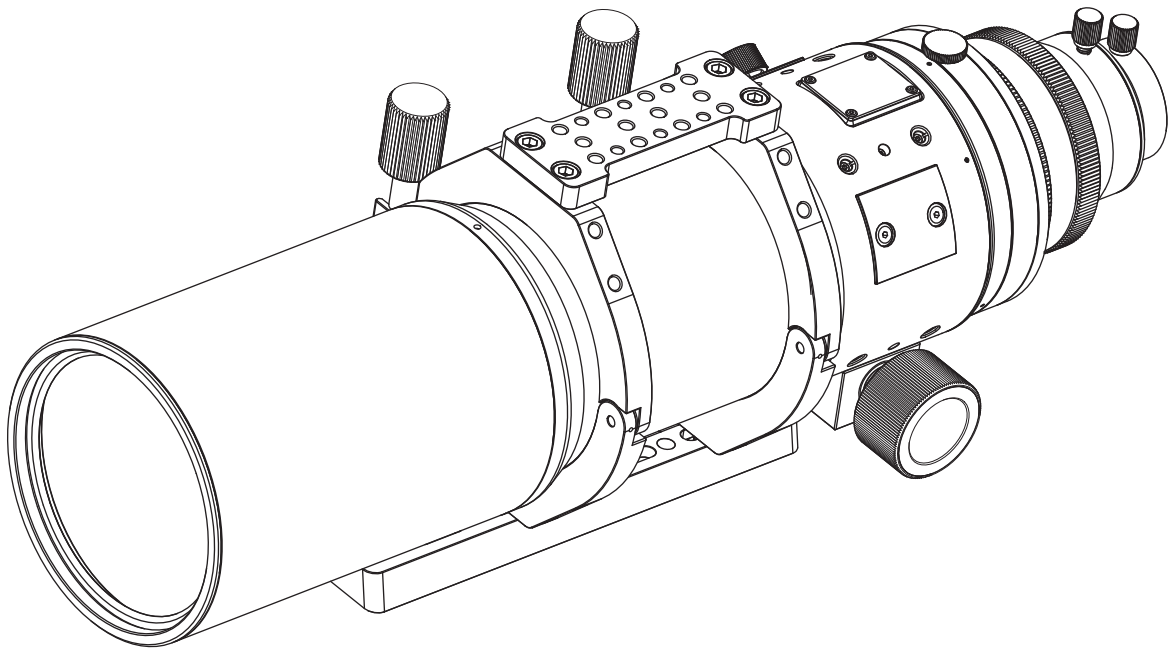


# SJH-75UF

## Instruction Manual



The contents of this manual are current as of January 2026. Product specifications and contents are subject to change without notice for improvement purposes.

This manual is the copyrighted work of Sightron Japan Co., Ltd. Unauthorized copying, reproduction, or reprinting is prohibited.

## — Introduction —

- Thank you for purchasing this Sightron Japan astronomical telescope. Before using the product, please be sure to read this instruction manual and use the product correctly.
- This is the instruction manual for the “SJH-75UF”. The photos and illustrations in this manual are for explanatory purposes and may differ in some details from the actual product.
- The specifications, design, and other contents of the product described in this manual are subject to change without notice for improvement purposes.
- When using this product, please follow the instructions described in this manual. In particular, be sure to strictly observe the safety precautions.
- Please note that we cannot accept any responsibility for damage, lost profits, or any claims from third parties resulting from improper use of this product.
- Every effort has been made to ensure the accuracy of this manual, but if you notice any errors or omissions, please contact the Sightron Japan Customer Support Center.

## Safety Precautions

### Warning

- Never look directly at the Sun through the telescope. Doing so will cause blindness or permanent damage to your eyesight.

### Caution

- Be sure to read this instruction manual carefully.
- Do not subject the telescope to strong impacts or vibration by dropping or bumping it.
- Do not place the telescope on an unstable surface. It may tip over or fall, causing injury.
- Do not leave the telescope where it is exposed to direct sunlight. Doing so may cause fire.
- Do not use the telescope while walking. You may collide with something or fall, causing injury.
- Keep caps and other small parts out of the reach of small children so they cannot swallow them. If a child swallows a part, consult a doctor immediately.
- Keep plastic bags (used for packaging) out of reach of small children. A bag placed over the mouth can cause suffocation.
- When mounting the telescope on a mount, turn the lock screws of the mount and tube rings to secure it firmly. Otherwise the telescope may tip over or fall.

## Storage Precautions

- If dust gets on a lens, do not wipe it off; first blow it away with an air blower or similar.
- For dirt that cannot be removed, wipe gently and carefully with a commercial lens cleaning fluid and cleaning paper.
- If cleaning fluid is dripped directly onto a lens, it may seep into the gap between the lens and its cell. Always apply a small amount to a soft cloth and use that to clean the lens.
- The lenses are very precisely adjusted. Never disassemble the telescope yourself for adjustment or cleaning.
- Avoid sudden temperature changes.
- After use, store the telescope indoors in a shaded, well-ventilated place.

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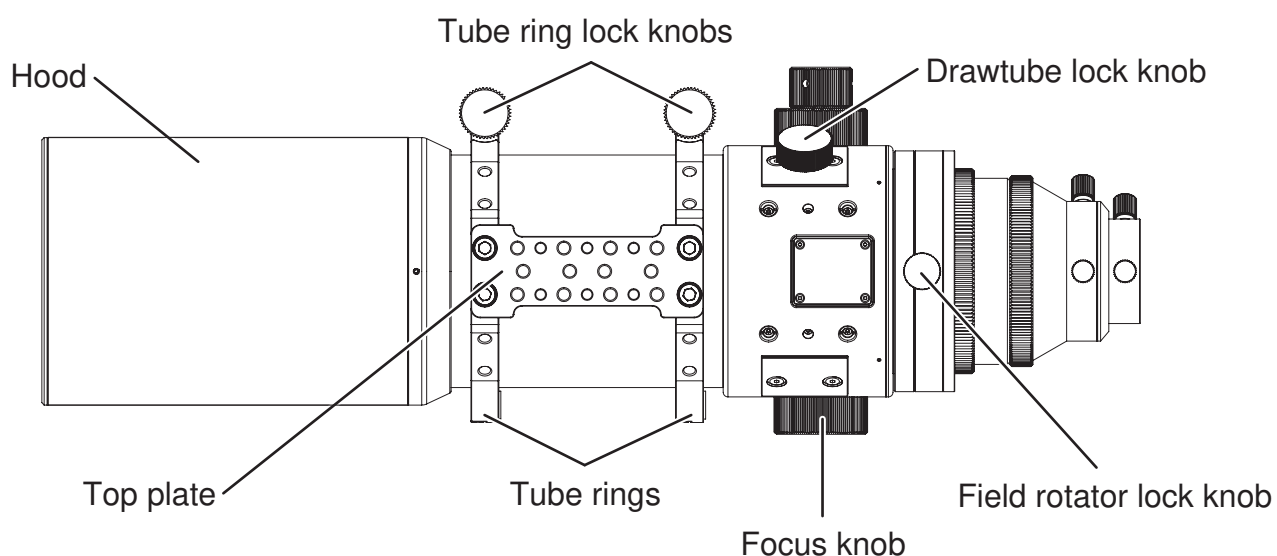
## Package Contents

The following items are included with this product.

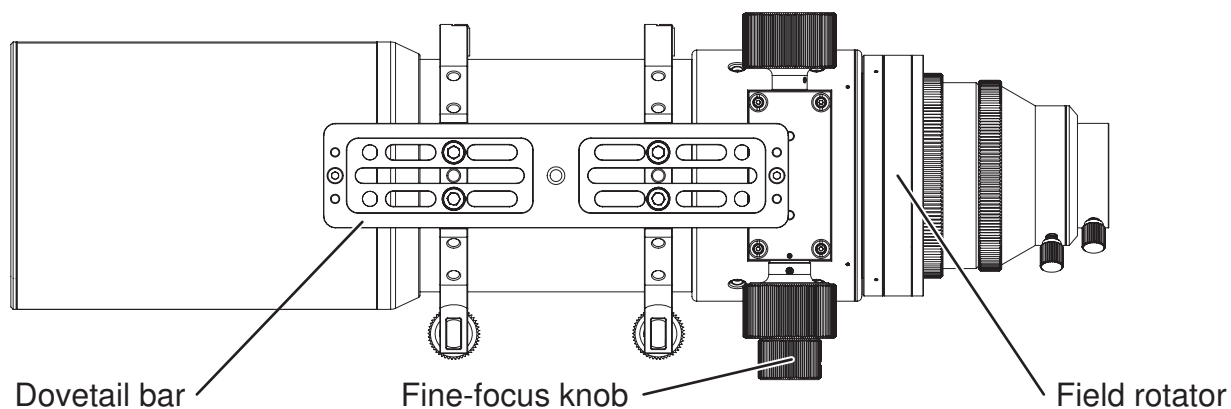
- SJH-75UF optical tube assembly
- Eyepiece-end cap
- 45 mm narrow dovetail bar
- Finder base and mounting screws
- Objective lens cap
- Tube rings
- Top plate
- Instruction manual / warranty card (this booklet)

## Part Names and Dimensions

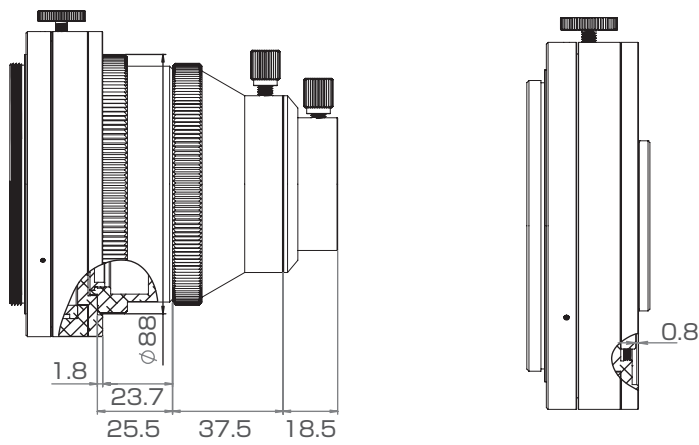
### ● Top view



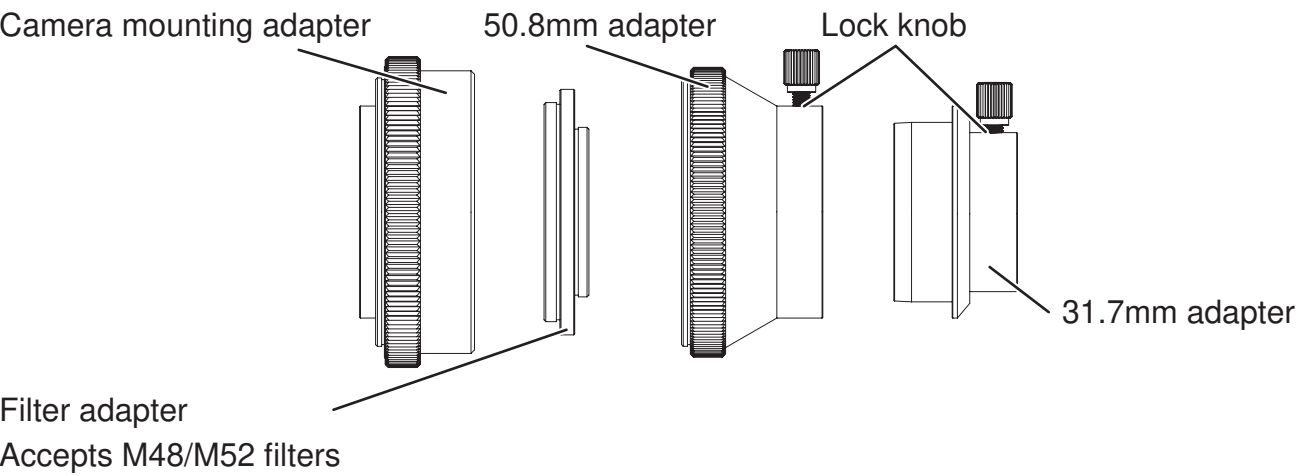
### ● Bottom view



●Focuser unit

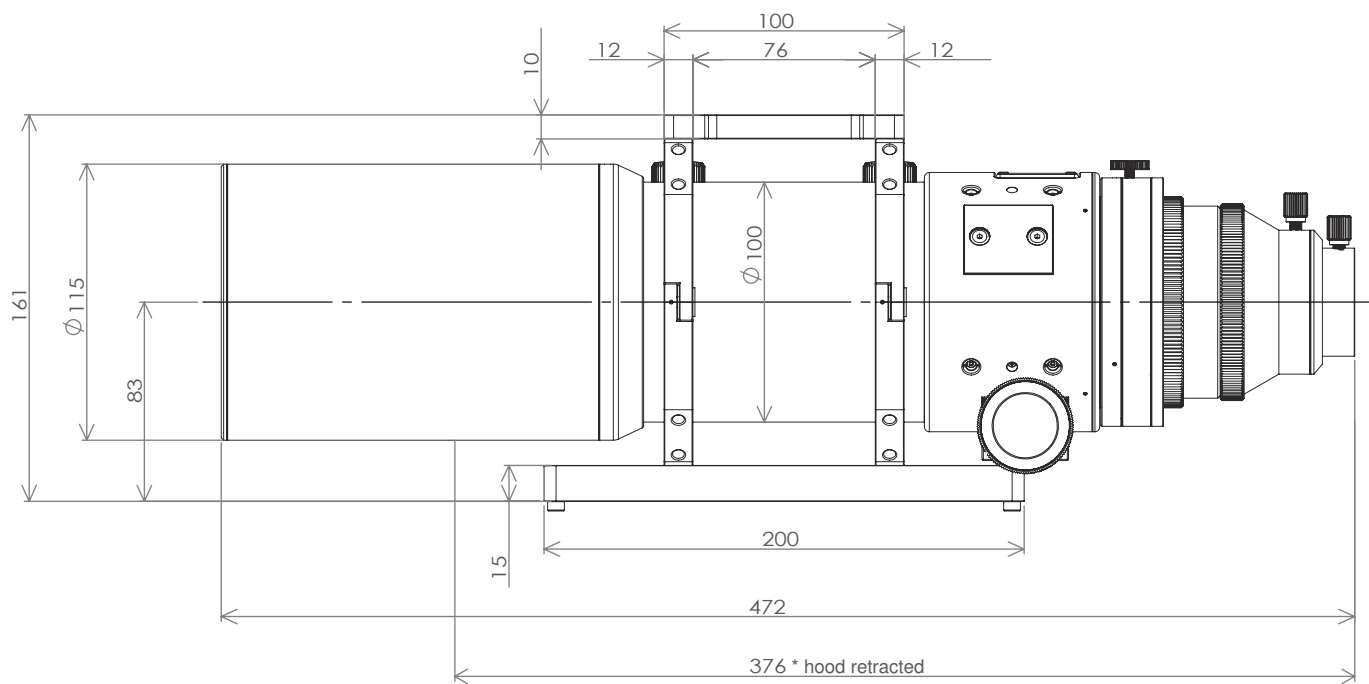


\* When the filter adapter is attached directly to the field rotator, it recesses approx. 0.8 mm toward the tube side.



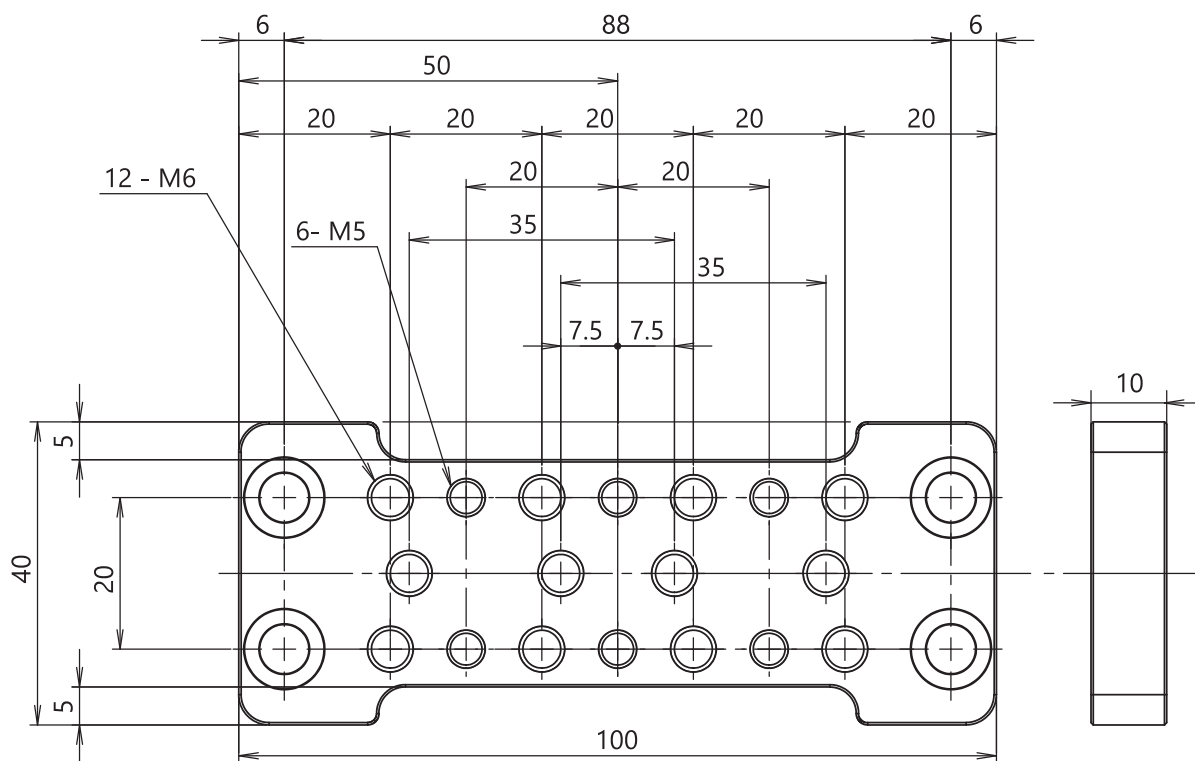
●Tube dimensions

Unit: mm

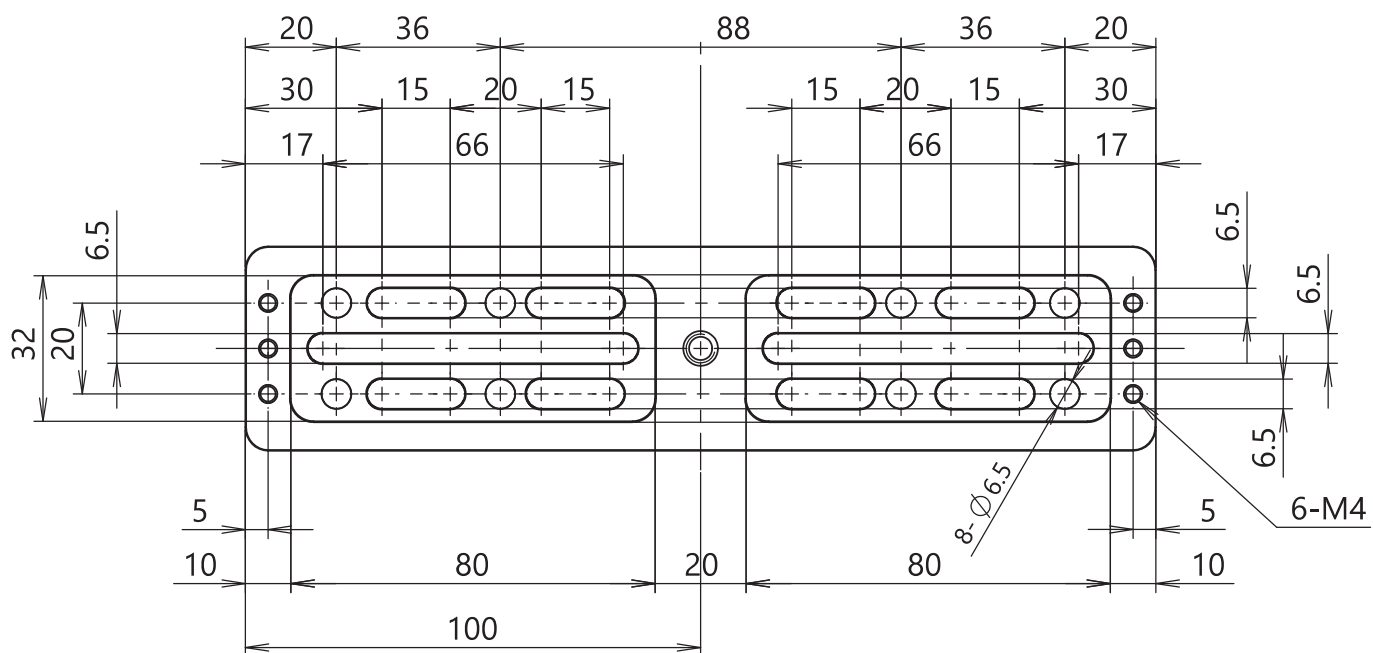


## ●Top plate

Unit: mm



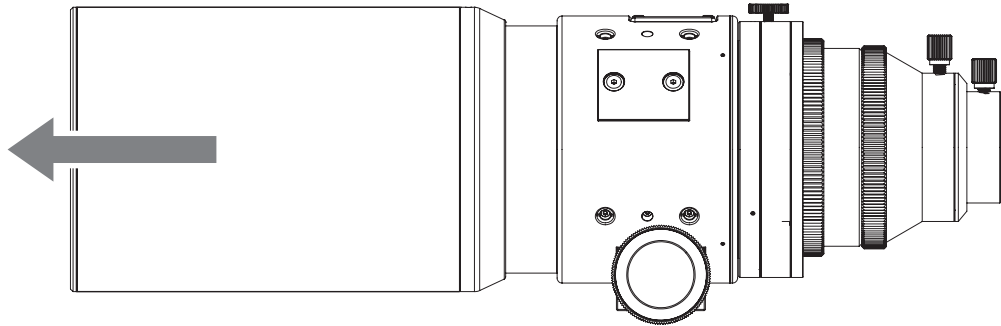
## ●Dovetail bar



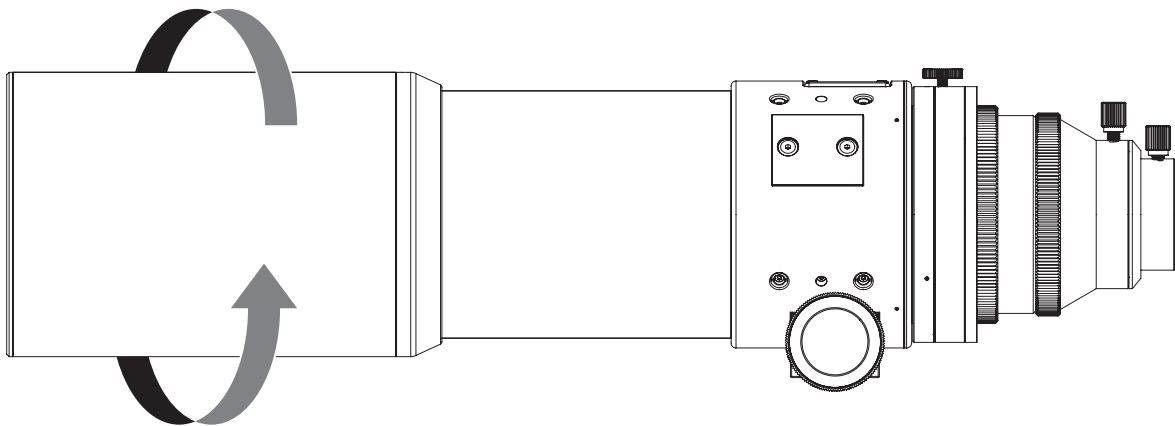
## Assembling the Telescope

### Extending and Locking the Hood

1. Pull the hood out.



2. Turn it two and a half turns in the direction shown.

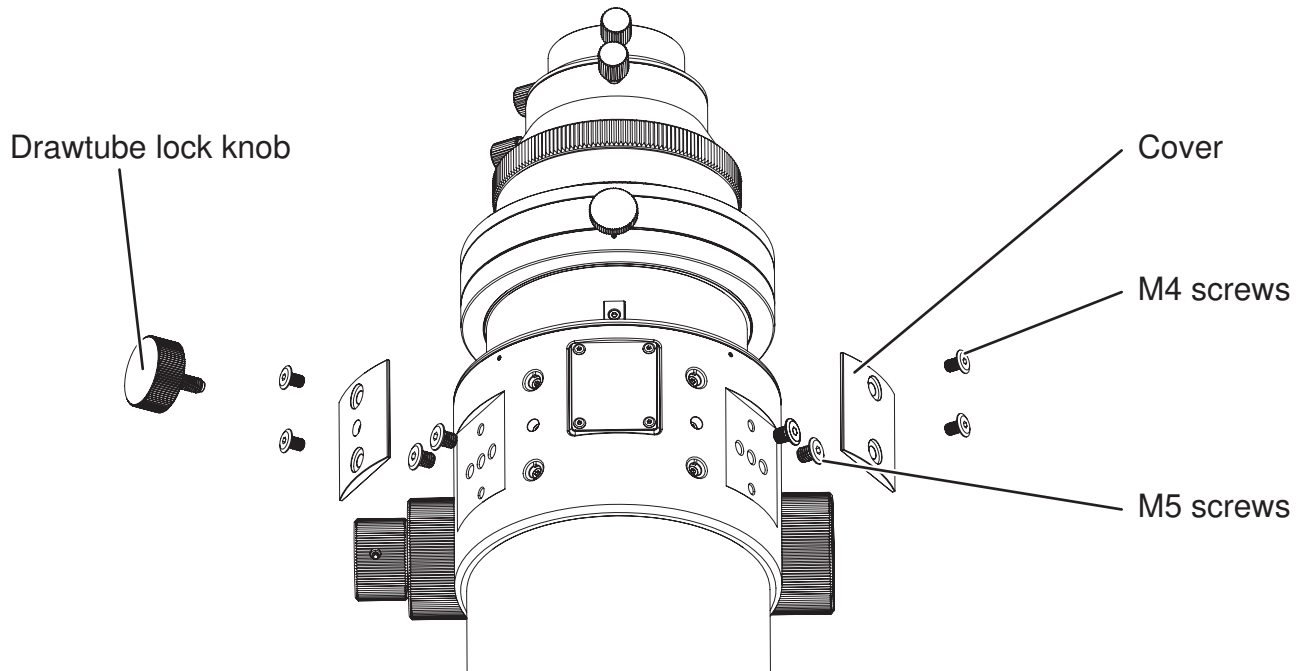


### Attaching the Tube Rings

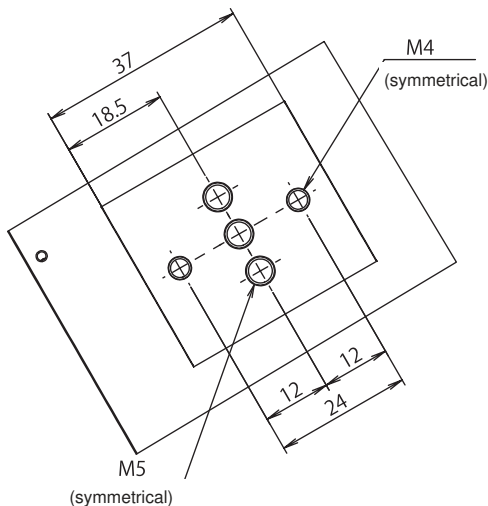
1. Loosen both tube ring lock knobs and open the upper halves of the rings.
  2. With the hood extended, place the tube on the lower halves of the tube rings and close the rings.
  3. Make sure the tube ring lock knobs are seated securely in their grooves, then tighten the knobs.
- \* Do not overtighten the tube ring lock knobs. Doing so may damage the screws or the body.

## Attaching the Finder Base

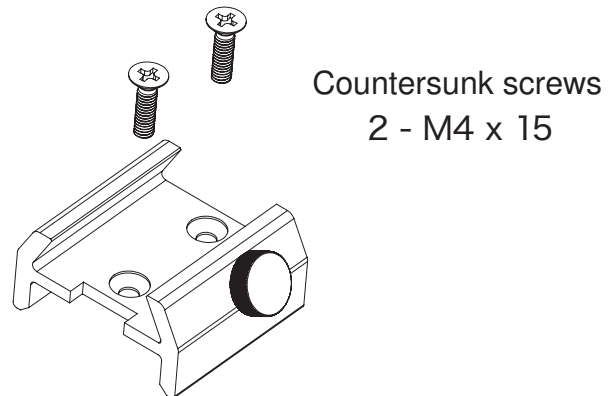
1. Loosen the M4 screws shown in the figure and remove the cover.
  2. Referring to the dimensional drawing, attach the supplied or a commercially available finder base.
- \* By swapping the cover positions, the drawtube lock knob can be moved to either the left or right side.



### ● Dimensional drawing



### ● Finder base (supplied)



Use the supplied 15 mm long M4 countersunk screws to secure it.

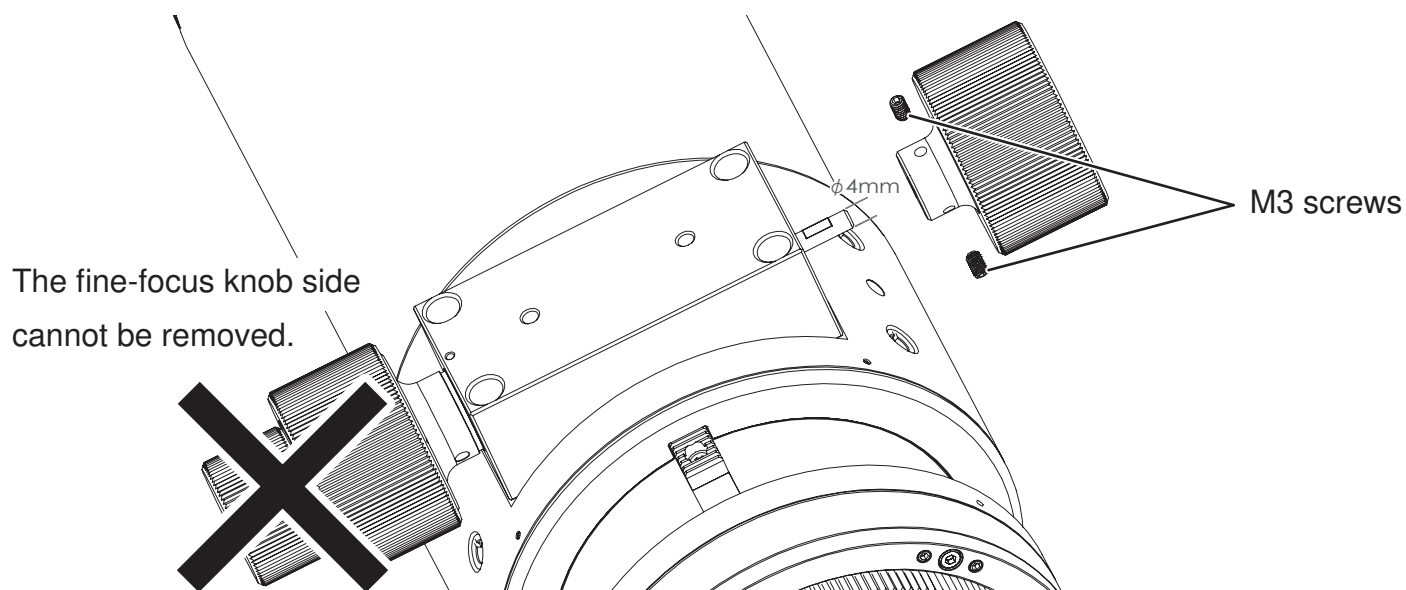


**Caution** The drawtube may be scratched or damaged.

- Do not screw the finder mounting screws more than 5 mm into the tube.
- Keep the removed cover and screws in a safe place so they are not lost.

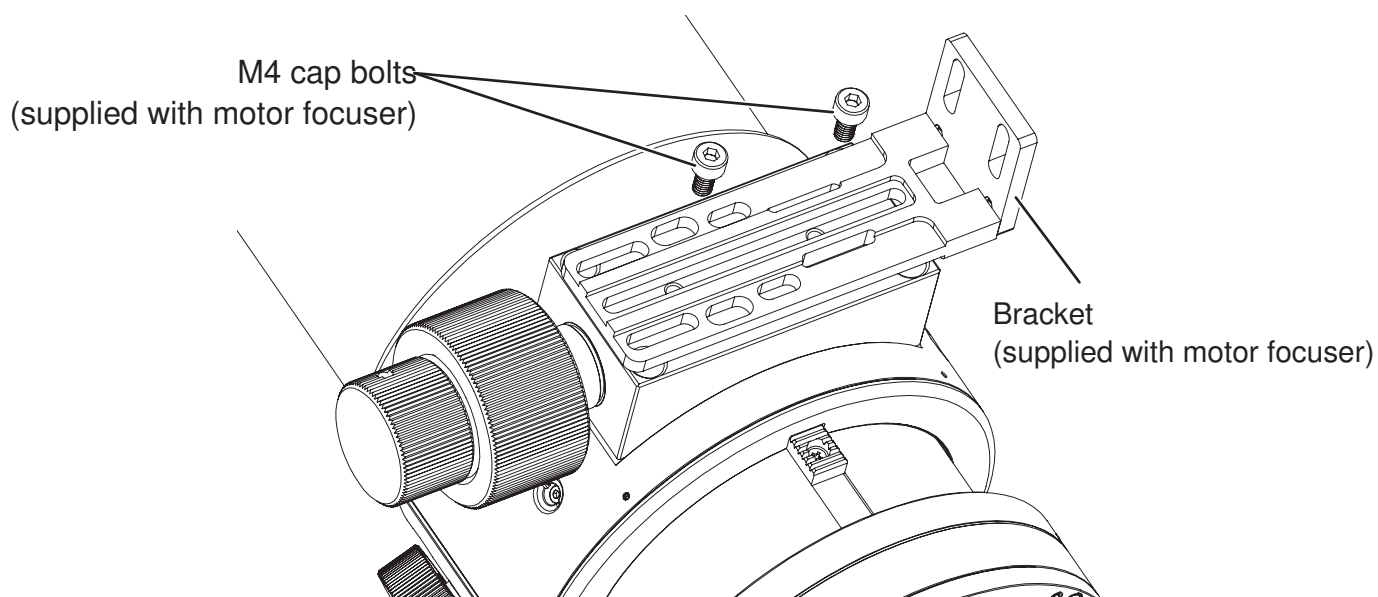
## Attaching a Third-Party Motor Focuser

1. Loosen the two M3 screws as shown and remove the focus knob.

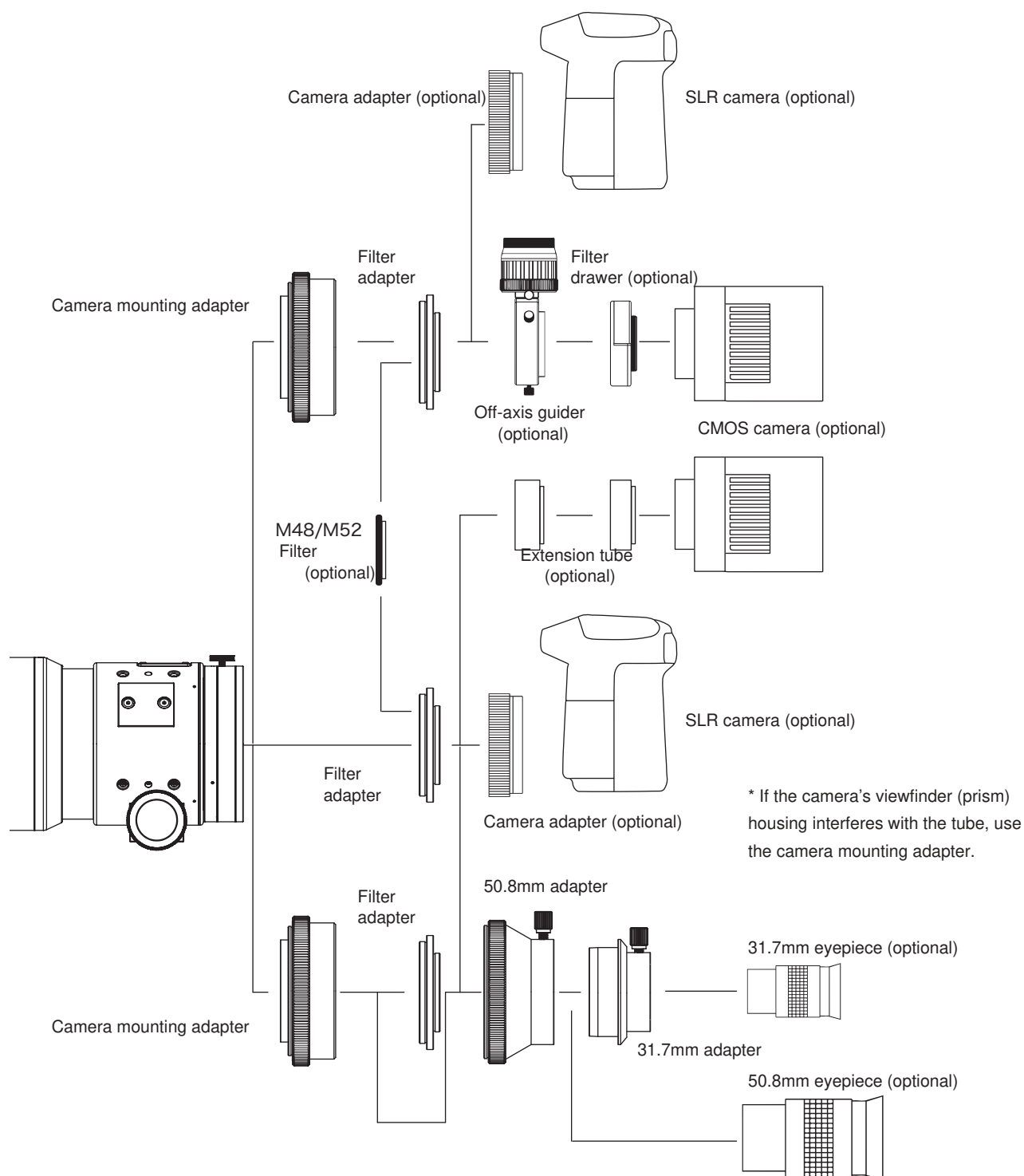


- Take care not to lose the removed parts.
- **Caution** • Never loosen the screws on the side with the fine-focus knob.
- The shaft diameter is  $\phi 4$  mm.

2. Attach the bracket supplied with the third-party motor focuser using the M4 cap bolts.
3. Install the motor focuser according to its own instruction manual.



## System Chart



## Attaching a Camera

Use the M48×0.75 mm threads at the rear end of the camera mounting adapter to attach a camera adapter (optional) or a CMOS camera (optional). The focusing range, measured from the rear end of the filter adapter to the camera sensor, is approx. 24 mm to 81 mm (with the camera mounting adapter) or approx. 48 mm to 104 mm (with the camera mounting adapter removed).

## Attaching an Eyepiece

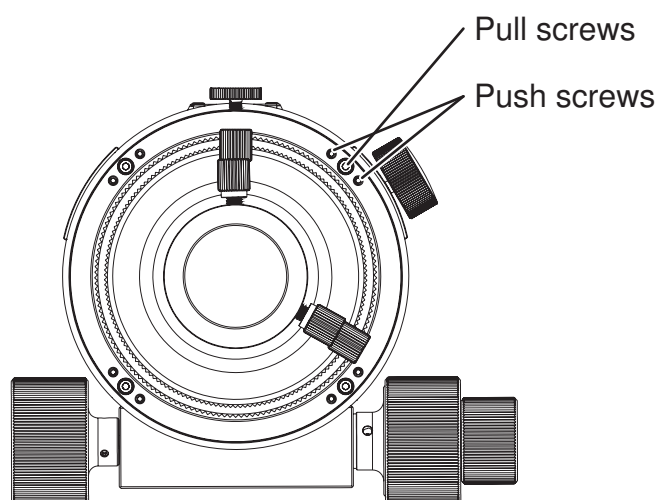
Attach an eyepiece via the 31.7mm adapter or the 50.8mm adapter. The distance to the focal point is approx. 25.7 mm from the rear end of the 31.7mm adapter or approx. 44.2 mm from the rear end of the 50.8mm adapter (with the camera mounting adapter), and approx. 49.7 mm from the rear end of the 31.7mm adapter or approx. 67.9 mm from the rear end of the 50.8mm adapter (with the camera mounting adapter removed).

## Squaring Adjustment

Squaring is adjusted at the factory before shipment, so normally no adjustment by the customer is required. However, because the focal plane of this product is extremely flat, it can reveal the slight tilt of the sensor or connections that exists even within camera manufacturers' acceptable tolerances, and one-sided blur may occur at the edges of the image field with cameras that have a large sensor area, such as full-frame cameras. The SJH-75UF is equipped with a squaring adjustment mechanism that allows these slight tilts to be corrected on the telescope side.

**\* Use this feature only if you understand and accept the following.**

- This feature is intended for experts and advanced amateurs who understand squaring adjustment. Adjustment requires advanced knowledge and equipment.
- We do not provide technical support for squaring adjustment. Any adjustment is carried out at the customer's own risk.



## Specifications

|                        |                                                                                             |                       |                                              |
|------------------------|---------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------|
| <b>Aperture</b>        | 75mm                                                                                        | <b>Focal length</b>   | 375mm                                        |
| <b>Focal ratio</b>     | 1:5 (F5.0)                                                                                  | <b>Optical design</b> | SD apochromat, 6 elements in 6 groups        |
| <b>Image circle</b>    | φ44mm                                                                                       | <b>Weight</b>         | Approx. 4.3 kg (excl. tube rings and plates) |
| <b>Tube diameter</b>   | 100mm                                                                                       | <b>Hood diameter</b>  | 115mm                                        |
| <b>Overall length</b>  | 376 mm (hood retracted, to 31.7mm adapter)<br>472 mm (hood extended, to 31.7mm adapter)     |                       |                                              |
| <b>Drawtube travel</b> | Approx. 58 mm                                                                               |                       |                                              |
| <b>Back focus</b>      | Approx. 25.7 mm (from 31.7mm adapter face)<br>Approx. 105.4 mm (from rear of field rotator) |                       |                                              |

## After-Sales Service

### Customer Support

For questions or inquiries about this manual or your product, please contact the authorized Sightron distributor in your country or region. When making an inquiry, please provide the following details: 1. product name or model number, 2. date and place of purchase, and 3. symptoms or nature of the problem.

#### Customer Support

Please contact your local authorized distributor.  
Manufacturer: Sightron Japan Co., Ltd. <https://www.sightron.co.jp>

### Product Warranty

If a failure occurs during the warranty period under normal use as described in this manual, the product will be repaired free of charge.

In the following cases, repairs will be charged even within the warranty period:

- 1 The product was not used correctly in accordance with the instruction manual.
  - 2 Failure or damage caused by repair, modification, or disassembly other than by the manufacturer or an authorized distributor.
  - 3 Failure or damage due to negligence or accidents in use or handling, including drops or exposure to water.
  - 4 Failure due to improper storage or lack of care.
  - 5 Failure or damage caused by natural disasters such as earthquakes, storms and floods, as well as fire or salt damage.
  - 6 The date and place of purchase cannot be verified by the warranty card or proof of purchase.
  - 7 Failure or damage attributable to use outside the intended purpose of this product or to use that the manufacturer judges to be inappropriate.
- Depending on the failure, the product may be replaced instead of repaired.
  - Shipping costs for repair items and any travel expenses are to be borne by the customer.
  - No compensation is provided for lost opportunities or monetary losses caused by the product being unusable due to failure or repair.
  - On-site repair services are not provided.

### Warranty Card

Warranty registration and warranty service are handled by the authorized distributor in your country or region. For repairs or warranty service, please contact the distributor or store from which you purchased the product, and keep your proof of purchase (receipt or invoice) in a safe place. The card below can be used to record your purchase information. Fill it in at the time of purchase and present it, together with your proof of purchase, when requesting service.

|                         |             |              |            |
|-------------------------|-------------|--------------|------------|
| <b>Model</b>            | SJH-75UF    |              |            |
| <b>Serial number</b>    |             |              |            |
| <b>Date of purchase</b> | <b>Year</b> | <b>Month</b> | <b>Day</b> |
| <b>Customer Address</b> | TEL         |              |            |
| <b>Phone</b>            |             |              |            |
| <b>Name</b>             |             |              |            |
| <b>Dealer</b>           |             |              |            |

The warranty period and conditions are determined by the authorized distributor in your country or region and may vary.

The warranty is valid only for the original purchaser and may not be sold or transferred.

Personal information provided in connection with repairs or inquiries will be handled in compliance with applicable privacy laws and used only to provide and improve after-sales service.

**Sightron Japan Co., Ltd.**

3-9-19 Nishiochiai, Shinjuku-ku, Tokyo 161-0031 TEL: 03-6908-3327 FAX: 03-6908-3443