

# Askar

## 103APO 0.6x 全画幅减焦镜 103APO 0.6x Full Frame Reducer

- 使用说明书
- User's Manual

请勿通过望远镜直接观察太阳，这样做可能导致瞬间失明，  
请购买专用太阳观测滤镜或滤镜膜，来获得最安全的观测指导。

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

www.sharppstar-optics.com

使用产品前请仔细阅读本使用说明书。

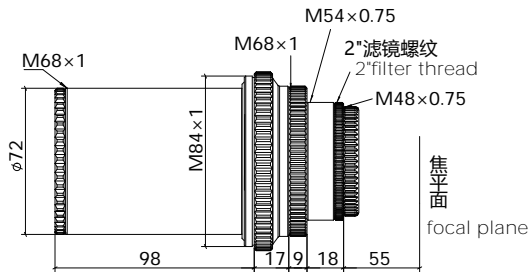
### Instructions for use

0.6x的减焦镜，可以使Askar 103APO焦比将至F4，同时具有平场修正的功能。从原生焦比F6.8到F4。Askar 103APO主镜筒采用了分段式镜筒设计，在使用0.6x减焦镜时，旋下后部第二段镜筒，使望远镜拥有可以达成F4焦比的空间长度，让0.6x得以使用。

0.6x减焦镜采用四片式设计，支持全画幅。整体重量为0.98kg。后截距从M48螺纹端面算起为标准55mm，前端螺纹接口为M84\*1，末端配有M68\*1,M54\*0.75以及M48\*0.75三种尺寸接环，接驳方便。同时内置M48\*0.75 2英寸滤镜螺纹，可直接安装滤镜使用。

The 0.6x reducer can bring the Askar 103APO's focal ratio down to F4 while also providing field flattening. Askar 103APO adopts a detachable tube design, where the rear part of the tube can be removed when using the 0.6x reducer, allowing the telescope to have the necessary length to achieve an F4 focal ratio.

The 0.6x reducer adopts a quadruplet design that also supports a 44mm full-frame image circle. The overall weight is 0.98kg. The back focus from the M48 thread is a standard 55mm. The front thread is M84\*1. At the camera end, we have equipped three sizes of adapter, M68\*1, M54\*0.75, and M48\*0.75 for easy subsequent connection and use. At the same time, the built-in M48\*0.75 2-inch filter thread can be used to install filters directly.



### 参数

103APO搭配后 焦距: 420mm

103APO搭配后 焦比: f/4

镜片数量: 四片式

后截距: 55mm (M48端面算起)

73mm (M54端面算起)

82mm (M68端面算起)

重量: 0.98kg

末端接口: M68\*1

M68\*1-M54\*0.75

M54\*0.75-M48\*0.75 (内置M48\*0.75滤镜螺纹)

### Parameters

(After attaching) 103APO Focal length:420mm

(After attaching) 103APO Focal ratio:f/4

Objective lens:Quadruplet Design

Back Focus:55mm(from the base of M48 male thread)

73mm(from the base of M54 male thread)

82mm(from the base of M68 male thread)

Weight:0.98kg

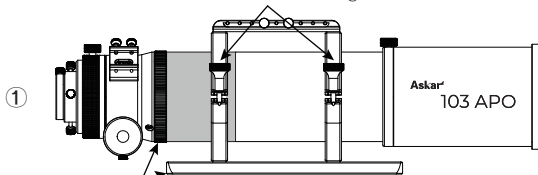
Rear-end thread type:M68\*1

M68\*1-M54\*0.75

M54\*0.75-M48\*0.75 (M48\*0.75 filter thread inside)

### 安装说明 Installation instruction

锁紧抱箍螺丝  
Lock the tube ring screw

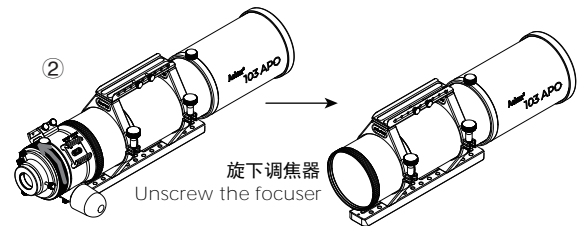


① 调焦器需超过鸠尾板

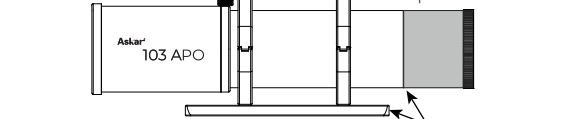
The focuser needs to be positioned beyond the dovetail plate

将抱箍调整至如图位置

Adjust the tube ring to the position shown



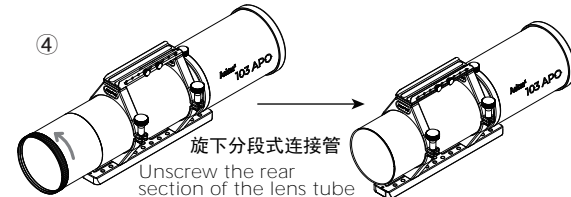
② 旋下调焦器  
Unscrew the focuser



③ 先伸开遮光罩  
First, stretch the lens hood

再将抱箍调整至如图所示  
Then adjust the tube ring to the position shown

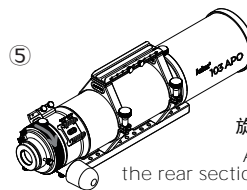
主镜筒一定要超过鸠尾板末端  
The tube should be beyond the rear end of the dovetail plate



④

旋下分段式连接管

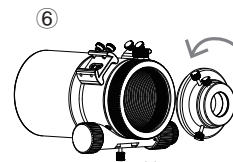
Unscrew the rear section of the lens tube



⑤

旋上调焦器后分段式镜筒拆卸完成

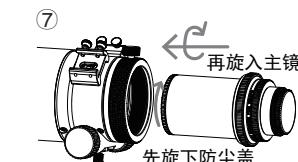
After screwing up the focuser, the rear section of the lens tube is removed



⑥

逆时针旋下2英寸接口及1.25英寸接口

Unscrew the 2" adapter and the 1.25" adapter



⑦

再旋入主镜

Unscrew the dust cap of the accessory and screw it into the 103APO

先旋下防尘盖