**Z**4

■使用说明书

User's Manual

#### 警告 WARNING!!

请不要通过本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膜,来获得最安全的观测指导。通过寻星镜,也可以造成眼睛的严重损害。请让孩子白天远离望远镜。

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

欢迎使用SHARPSTAR Z4 www.sharpstar-optics.com

#### 中文版(简体)

使用产品前请仔细阅读本使用说明书。

根据用户和市场需求,锐星全新推出了此款一体式望远镜Z4。其口径为100mm,焦比f/5.5。Z4采用前三片加后三片的六片式设计,其中两片为ED玻璃。与锐星其他系列摄星镜一样,Z4也承袭了自平场设计,在使用时无需费心计算后截距,合焦即可进行拍摄。

Z4的外观突破了锐星以往的风格,使用了全镜哑光灰色设计。浅灰色镜筒外表面,深灰色的调焦器和抱箍,沉稳中体现着错落有致的活力。单个一体式抱箍上端配有提手,方便携带和装配。提手为卡槽式设计,可安装有底座的寻星镜等。

Z4使用3.4英寸大调焦器, 1: 10的微调焦轮,配有360度旋转器,便于拍摄的调焦以及角度调整。M86、M68、M54、M48多尺寸接环,其中M48接环内螺纹可接2英寸滤镜。300mm窄型鸠尾板,更有利于摄星镜在赤道仪上保持平衡。

焦比: F5.5

物镜类型: 六片式全分离APO(包含两片ED玻璃)

影像圈: 36mm 全长: 482mm

**本体重量:** 4.3kg

标准装重量: 5.6kg (不含铝箱)

末端接口: M48×0.75

四段拍摄接口:

M86×1-M68×1

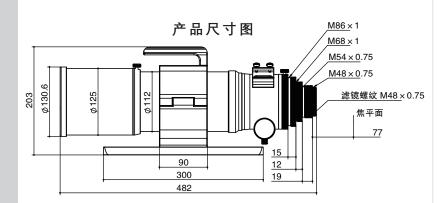
 $M68 \times 1 - M54 \times 0.75$ 

 $M54 \times 0.75 - M54 \times 0.75$ 

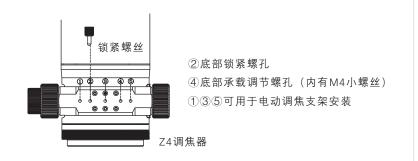
M54×0.75-M48×0.75 (内置M48×0.75滤镜接口)

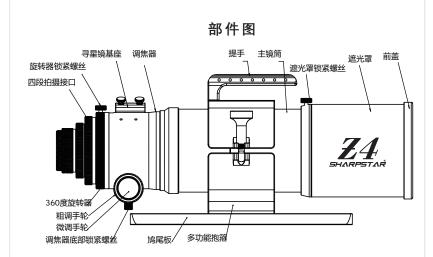
标准附属品: 抱箍一个, 鸠尾板一个, 提手一个, 四段拍摄

接口一个、铝箱一个、质保书一份、说明书一份

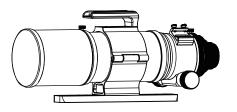


#### 锁紧螺丝示意图





### 包装含有



Z4本体、抱箍、鸠尾板、提手、 四段拍摄接口、铝箱



说明书

# English

#### Instructions for use

According to the users' and market demands, Sharpstar has newly launched an integrated astrograph—Z4. It has an aperture of 100mm and the focal ratio is f/5.5. Z4 is a sextuplet astrograph with three pieces of lens at the front and three pieces at the back, and two of them are ED glasses. Just like other series of Sharpstar astrographs, Z4 is designed as self-flattened so there is no need to calculate the back focus. You can just make the target stay at the focus, and the optical system is perfect for imaging.

The appearance of Z4 breaks through the previous style of Sharpstar with its matte gray coating. Light gray lens tube plus dark gray focuser and tube ring, make the astrograph looks calm but vibrant. The tube ring has a handle on the top which is easy to carry and assemble. The handle is designed as a slot on which you can mount a finder base, etc.

Z4 uses a large 3.4" focuser with a 1:10 fine adjustment knob and a 360° rotator for easy focusing and angle adjustment. It has M86, M68, M54, M48 adapters, and the M48 one has an internal thread that can fit 2" filters. And a 300mm Vixen-style dovetail plate, makes it easier to balance on the equatorial mount.

### Specification:

Focal ratio: F5.5

Objective lens: sextuplet fully air-spaced APO (including two ED glasses)

Image circle: 36mm

Total length: 482mm

Net weight: 4.3kg

Gross weight: 5.6kg (without the aluminum box)

Rear-end thread: M48×0.75 male thread

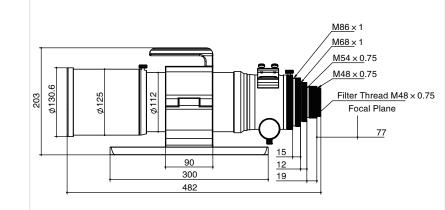
4-piece photographical adapter:

M86×1-M68×1 M68×1-M54×0.75 M54×0.75-M54×0.75

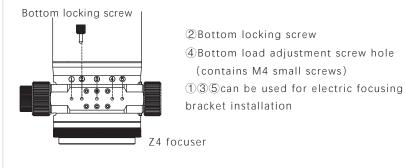
M54×0.75-M48×0.75 (with M48×0.75 filter thread)

**Standard package items:** a tube ring, a dovetail plate, a handle, a 4-piece photographical adapter, an aluminum box, a warranty, a manual

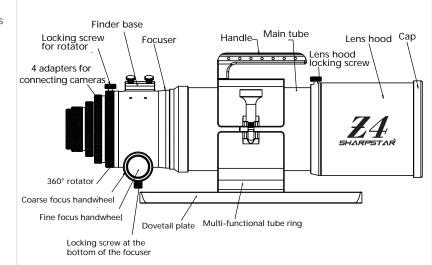
# Product Size Diagram



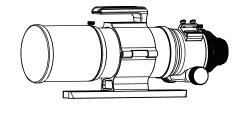
# The Locking Screw Position Diagram



### **Product Parts Diagram**



#### Items in Z4 Packaging



a tube ring, a dovetail plate, a handle, a 4-piece photographical adapter an aluminum box

Z 4

■ User's Manual

WARNING!

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Instruction manual