

Askar

# 130PHQ

## ■ 使用说明书

## ■ User's Manual

### 警告 WARNING!!

请勿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ASKAR 130PHQ  
www.askarlens.com

中文版

使用产品前请仔细阅读本使用说明书

130PHQ是继107PHQ、80PHQ之后新推出的长焦比、自平场摄星镜。天文摄影爱好者们无需为其另外购买平场镜，亦无需计算平场镜的后载距或是进行繁琐的连接以达到匹配的距离，只要直接接上任意成像配件，合焦后就是最佳的拍摄状态，方便快捷，让您有更多时间投入到其他拍摄工作中。

与107PHQ相比，130PHQ有着更大一号的尺寸，口径上比107PHQ大了23mm。130PHQ采用f/7.7焦比，焦距达到了1000mm，较大于107PHQ的f/7。四片式光学镜片组合，其中两片为ED玻璃，有着非常好的色差及其他像差控制能力。由于采用自平场设计，130PHQ在天文拍摄中具有很强的优势。它支持中画幅60mm影像圈，点阵图细腻，周边星点变形极小，其中央RMS半径小于2微米。

130PHQ附有伸缩遮光罩，镜筒全部采用高质量CNC加工工艺以及喷涂涂装，装饰零件醒目美观。刚性3.4英寸调焦器，附有M68/M54/M48拍摄接环以及寻星镜基座。130PHQ搭配3英寸0.7×平场减焦镜使用时，望远镜的焦比可以达到f/5.4，焦距达到700mm，有效缩短曝光时间。多功能提手附中央卡槽，可使用M6螺丝固定有M6螺孔的配件。标准Losmandy宽型鸠尾板，配合结实的双抱箍，完全满足观测和拍摄的使用需求。

### 规格

有效口径：130mm

焦距：1000mm

焦比：f/7.7

物镜类型：四片式全分离APO（包括两片ED玻璃）

成像圈：60mm

调焦筒缩进状态下后端最长连接长度：

1. 拍摄模式：

116mm（从M48×0.75外螺纹算起）

136mm（从M54×0.75外螺纹算起）

156mm（从M68×1外螺纹算起）

186mm（从M86×1外螺纹算起）

2. 观测模式：

148.5mm（从2英寸目镜基座算起）

全长：

842.5mm（含1.25目视接口缩进状态） 1011.5mm（含1.25目视接口伸长状态）

889.5mm（加拍摄连接管缩进状态） 1061.5mm（加拍摄连接管伸长状态）

本体重量：10.5kg

标准装重量：12.5kg

末端接口：M86×1-M68×1

M68×1-M54×0.75

M54×0.75-M54×0.75

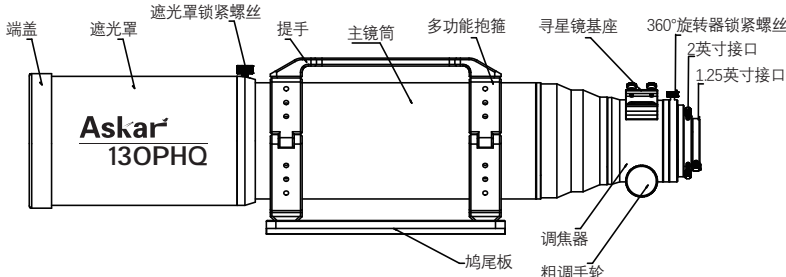
M54×0.75-M48×0.75（内置M48×0.75滤镜螺纹）

四段式拍摄连接管末端接口：M48×0.75

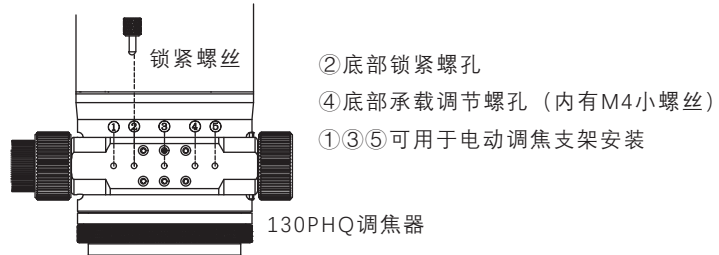
标配：130PHQ本体一个，抱箍一对，提手一个，Askar Losmandy 300mm

宽型鸠尾板一个，四段式拍摄连接管一套，铝箱一个，说明书一份

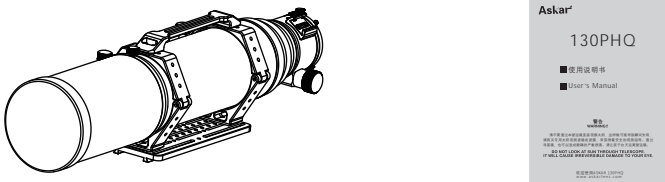
### 部件图



### 锁紧螺丝示意图



### 包装含有



130PHQ本体、抱箍、提手、Askar Losmandy 300mm

宽型鸠尾板、四段式拍摄连接管、铝箱

说明书

English

Instructions for use

130PHQ is a long-focal-ratio, flatfield astrograph newly launched after 107PHQ and 80PHQ. Instead of buying extra flatteners, calculating the backfocus of flattener or making tedious connection to match the distance, astrophotographers can simply equip it with any possible imaging devices, make the target stay at the focus, and then the whole optical system is perfect for imaging.

130PHQ has a larger size than 107PHQ, with an aperture 23mm larger than 107PHQ. 130PHQ has a focal ratio of f/7.7 which is bigger than 107PHQ's f/7, and a focal length of 1000mm. The quadruplet lens with two ED glasses offers excellent control of chromatic and other aberrations. With its self-flattening design, 130PHQ offers strong advantages in astronomical shooting. It supports a medium frame 60mm image circle, has a fine spot diagram with tiny distortion of the peripheral stars, and its central RMS radius is less than 2 microns.

130PHQ comes with a telescopic lens hood, a high quality CNC machined and painted tube and attractive decorative parts. The 3.4" rigid focuser comes with M68, M54, and M48

camera adapters and a finder base. When used with the 3" 0.7 x flat field reducer, the telescope can reach a focal ratio of f/5.4 and a focal length of 700mm, effectively reducing exposure time. The multifunctional handle comes with a central slot for attaching an M6 screw with an M6 screw hole. Standard Losmandy dovetail plate, together with sturdy double tube ring, is perfectly suited for viewing and shooting.

## Specification

Aperture size: 130mm

Focal length: 1000mm

Focal ratio: f/7.7

Objective lens: Quadruplet air-spaced APO (including two ED glass)

Image circle: 60mm

Maximum accessory connection (with the focuser fully retreated):

1. Imaging mode:

116mm（from the base of M48×0.75 male thread）

136mm（from the base of M54×0.75 male thread）

156mm（from the base of M68×1male thread）

186mm（from the base of M86×1 male thread）

2. Observing mode:

148.5mm（from the end of 2" eyepiece holder）

Total length:

842.5mm(with the 1.25" visual adapter fully retreated)

1011.5mm(with the 1.25" visual adapter fully stretched)

889.5mm(plus the photographic adapter fully retreated)

1061.5mm( plus the photographic adapter fully stretched)

Net weight: 10.5kg

Gross weight: 12.5kg

Rear-end thread type:

M86×1-M68×1

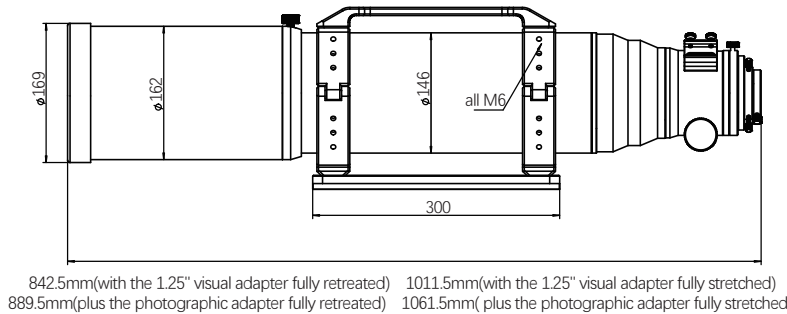
M68×1-M54×0.75

M54×0.75-M54×0.75

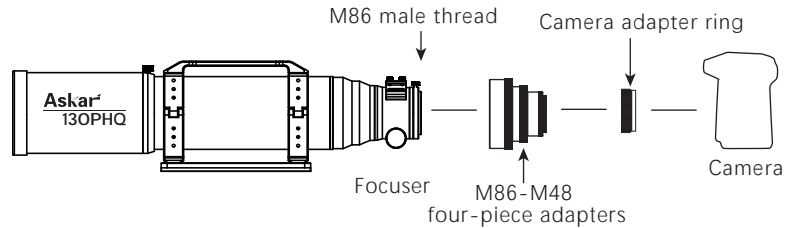
M54×0.75-M48×0.75（M48×0.75 filter thread inside）

Standard package items: an 130PHQ OTA, a pair of tube rings, a handle, an Askar losmandy 300mm dovetail plate, a set of 4-piece photographic adapters, an aluminum box, a manual

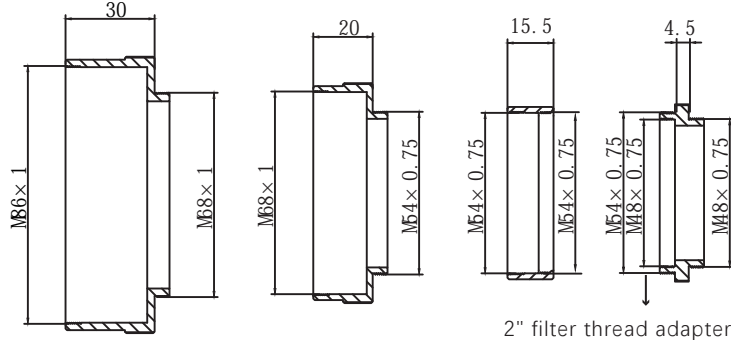
## Product Size Diagram



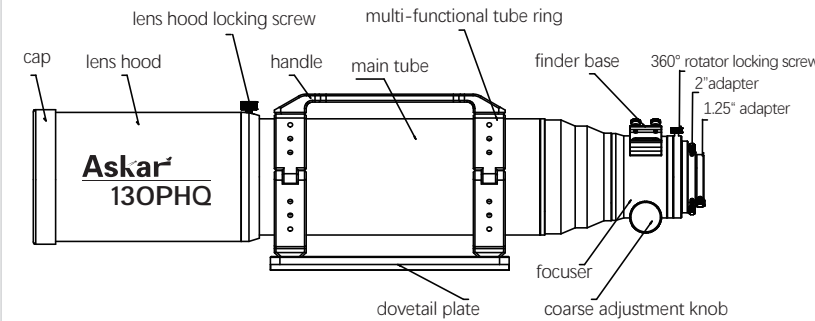
## Connection Diagram of Camera



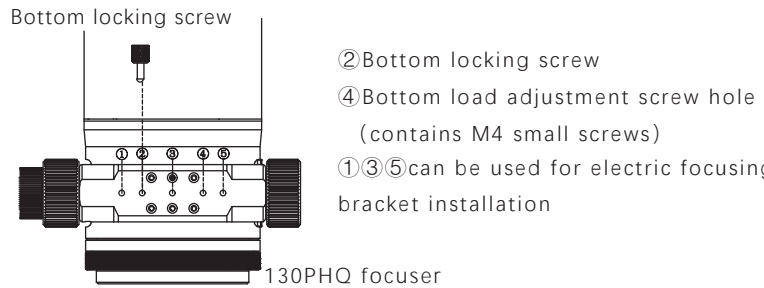
## 4-piece Photographic Adapter Diagram



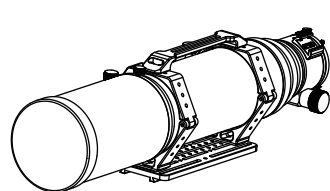
## Product Parts Diagram



## The Locking Screw Position Diagram



## Items in 130PHQ Packaging



an 130PHQ OTA, a pair of tube rings, a handle, an Askar losmandy 300mm dovetail plate, a set of 4-piece photographic adapters, an aluminum box

a manual