

65PHQ

■ 使用说明书

■ User's Manual

警告 WARNING!

请勿通过本望远镜或寻星镜直接观测太阳，否则可能导致眼睛受到严重损害甚至失明。若有观测太阳的需要，请使用专用太阳观测滤镜或滤膜并在安全指导下观测。

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

欢迎使用ASKAR 65PHQ
www.askarlens.com

中文版（简体）

使用产品前请仔细阅读本使用说明书。

65PHQ是继80PHQ、107PHQ、130PHQ之后又一加入PHQ家族的自平场摄星镜。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截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。

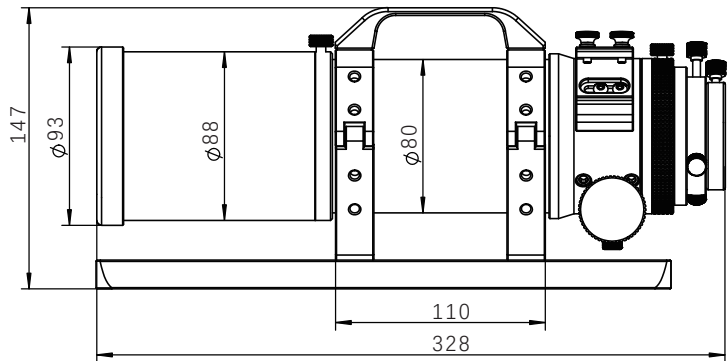
与PHQ系列其他望远镜相比，65PHQ尺寸更加小巧。65PHQ采用f/6.4焦比，焦距为416mm。不同于其他PHQ系列望远镜的四片式结构，65PHQ为五片式光学镜片组合，前三片中有两片为ED玻璃，有着非常好的色差及其他像差控制能力。由于采用自平场设计，65PHQ在天文拍摄中具有很强的优势。它支持全画幅影像圈，点阵图细腻，周边星点变形极小。

65PHQ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。望远镜本体净重2kg，标准装重量2.8kg。刚性2.5英寸调焦器，带新型含刻度的360°旋转器以及寻星镜基座。附有M68/M54/M48拍摄接环，其中M48接环内置带有2英寸滤镜螺纹。

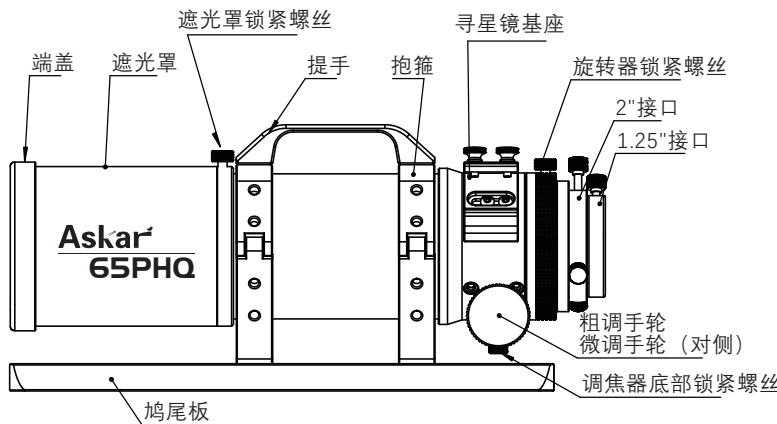
用65PHQ进行目视观测也是非常理想的选择，连接天顶配合各种目镜，都能轻松合焦，甚至超高倍观测行星也不在话下。多功能提手，300mm窄型鸠尾板，体积小巧，重量轻盈，十分便携，配合结实的双抱箍，完全满足观测和拍摄的使用需求。

有效口径：65mm
焦距：416mm
焦比：f/6.4
物镜类型：五片式全分离APO（包括两片ED玻璃）
成像圈：44mm
调焦筒缩进状态下后端最长连接长度：
1. 拍摄模式：
76mm（从M48×0.75外螺纹算起）
105mm（从M54×0.75外螺纹算起）
130mm（从M68×1外螺纹算起）
2. 观测模式：
121mm（从2英寸目镜底座算起）
全长：
328mm（含1.25英寸接口缩进状态） 360mm(加拍摄连接管缩进状态)
388mm（含1.25英寸接口伸长状态） 420mm(加拍摄连接管伸长状态)
本体重量：2kg
标准装重量：2.8kg
末端接口：
M68×1-M54×0.75
M54×0.75-M54×0.75
M54×0.75-M48×0.75（内置2英寸滤镜螺纹）
三段式拍摄连接管末端接口：M48×0.75
标配：65PHQ本体一个，抱箍一对，提手一个，Askar 300mm Vixen窄型鸠尾板一个，三段式拍摄连接管一套，说明书一份

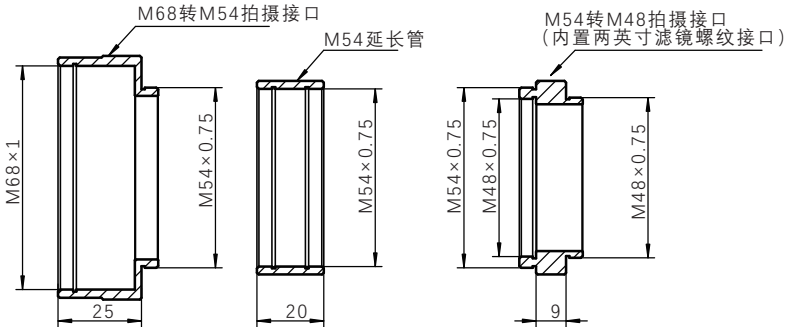
产品尺寸图



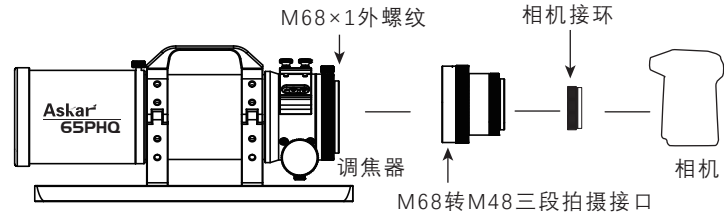
部件图



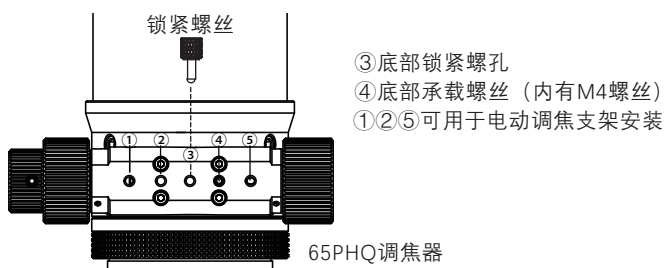
三段式拍摄连接管



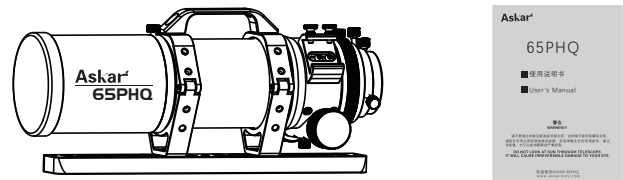
相机连接示意图



锁紧螺丝示意图



包装含有



65PHQ本体一个，抱箍一对，提手一个，
Askar 300mm Vixen窄型鸠尾板一个，
三段式拍摄连接管一套，说明书一份

English

Instructions for use

65PHQ is a flatfield astrograph newly launched after 80PHQ, 107PHQ, and 130PHQ. Instead of buying extra flatteners, calculating the back focus of the flattener, or making a tedious connection to match the correct distance, astrophotographers can simply equip it with any possible imaging accessories, make the target stays at the focus, and then the whole optical system is perfect for imaging.

65PHQ has a smaller size than other PHQ astrographs. 65PHQ has a focal ratio of f/6.4 and a focal length of 416mm. Instead of the quadruplet structure of other PHQs, the 65PHQ is a quintuplet with two ED glasses which offers excellent control of chromatic and other aberrations. With its self-flattening design, 65PHQ offers strong advantages in astronomical shooting. It supports the full-frame image circle and has a fine spot diagram with tiny distortions of the peripheral stars.

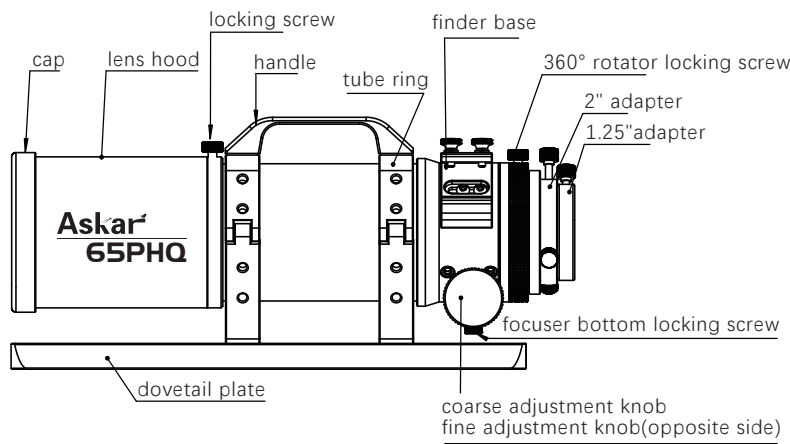
65PHQ comes with a telescopic lens hood, a high-quality CNC machined, painted tube, and attractive decorative parts. The OTA weighs 2kg, and the full package with tube rings, etc. weighs 2.8kg. The 2.5" rigid focuser comes with a new-type 360° rotator with scales and a finder base. M68, M54, and M48 camera adapters are also attached, and the M48 adapter has a 2" female thread for installing filters.

It is also a nice choice for your visual observation. With different diagonals and various eyepieces and it can also achieve a perfect focus. It can even be used to observe planets with a super-high magnification eyepiece. The 65PHQ contains a multifunctional handle, a 300mm Vixen dovetail plate, and sturdy double tube rings. It is small in size and light in weight, which perfectly caters to your need for viewing and shooting.

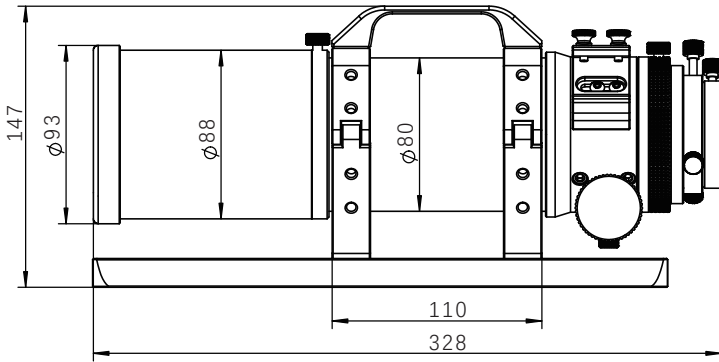
Aperture size: 65mm
Focal length: 416mm
Focal ratio: f/6.4
Objective lens: Quintuplet air-spaced APO (including two ED glasses)
Image circle: 44mm
Maximum accessory connection (with the focuser fully retreated):
1. Imaging mode:
76mm (from the base of M48×0.75 male thread)
105mm (from the base of M54×0.75 male thread)
130mm (from the base of M68×1 male thread)
2. Observing mode:
121mm (from the end of 2" eyepiece holder)
Total length:
328mm (including 1.25" eyepiece holder as dew shield contracted)
388mm (including 1.25" eyepiece holder as dew shield fully stretched)
360mm (including the 3-piece adapter as dew shield contracted)
420mm (including the 3-piece adapter as dew shield fully stretched)

Net weight: 2kg
Gross weight: 2.8kg
Rear-end thread type:
M68×1-M54×0.75
M54×0.75-M54×0.75
M54×0.75-M48×0.75 (built-in 2" filter thread)
Rear end of the 3-piece photographic adapters: M48×0.75
Standard package items: a 65PHQ OTA, a pair of tube rings, a handle, Askar 300mm Vixen-style dovetail plate, a set of 3-piece photographic adapters, a manual

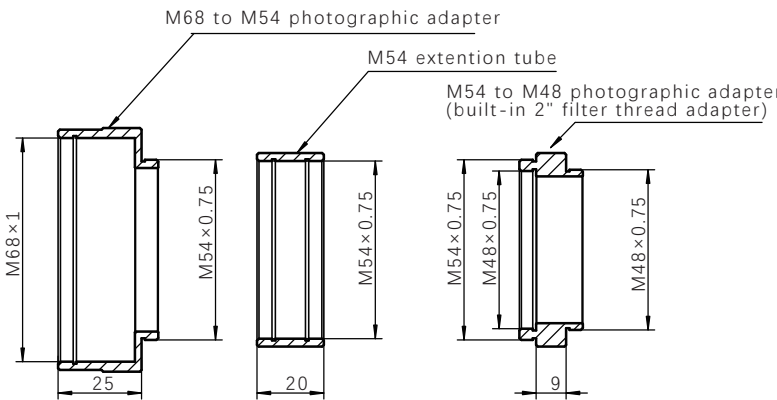
Product Parts Diagram



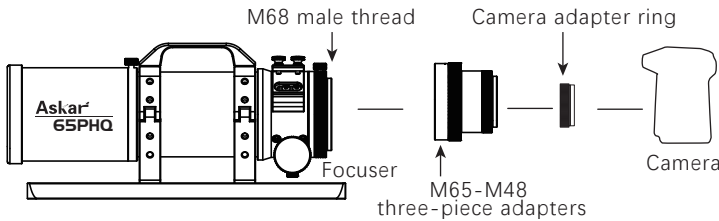
Product Size Diagram



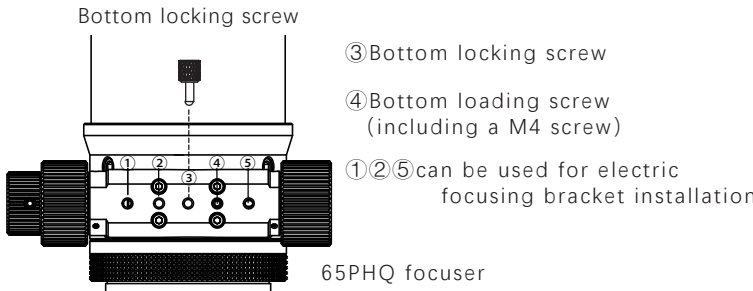
Three-piece Adapters Diagram



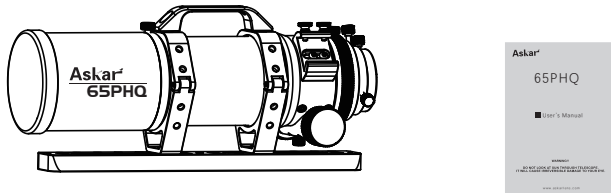
Connection Diagram of Camera



The Locking Screw Position Diagram



Items in 65PHQ Packaging



a 65PHQ OTA, a pair of tube rings,
a handle, Askar 300mm Vixen-style dovetail
plate, a set of 3-piece photographic
adapters, a manual

Instruction manual