

Askar

FMA180 pro

■ 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 FMA180 pro
www.sharpstar-optics.com

中文版

使用产品前请仔细阅读本使用说明书

FMA180 pro在光学设计结构上与FMA180类似，主镜采用六片式全分离APO设计，其中两片为ED玻璃，色差控制非常优异，为高质量的拍摄与观测奠定了基础。口径40mm，焦比f/4.5，焦距180mm。

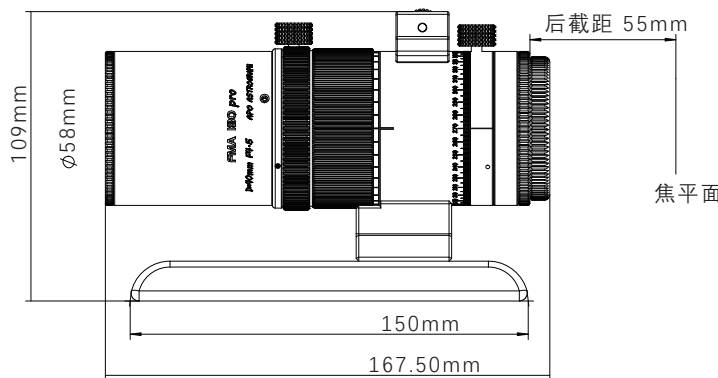
除了可用于目视观测，FMA180 pro更为天文摄影进行了优化。与FMA180相比，其增加了寻星镜基座与360°旋转器，并将调焦器升级为全新一体式内调焦系统，增加了调焦器的稳定性，更保障其作为小巧、高品质的小型摄星镜的使用性能。

望远镜后端配有M48接环，后截距依然是标准的55mm。多功能支架使其既能作拍摄使用，也能在卸下Vixen窄型鸠尾板后直接作为寻星镜安装到其他望远镜的寻星镜基座上。

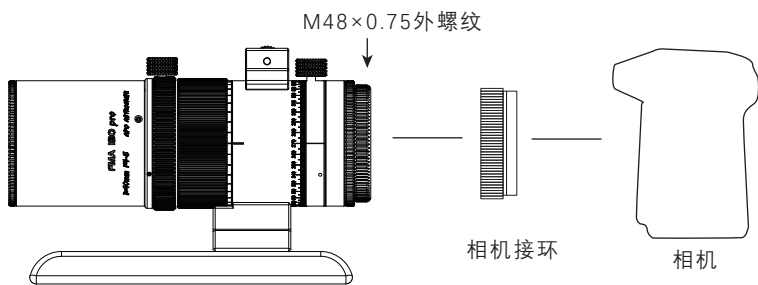
规格

口径：40mm
焦距：180mm
焦比：f4.5
物镜类型：双ED六片式全分离APO
全长：167.5mm
重量：0.8kg
末端接口：M48×0.75（内置2英寸滤镜螺纹）
内含：本体一个，说明书一份

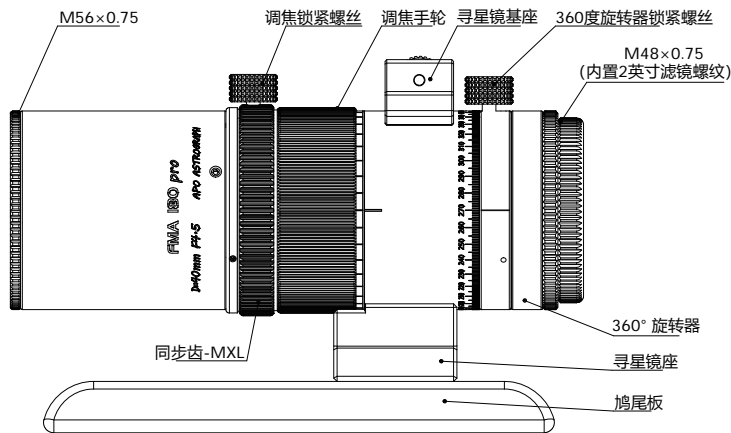
产品尺寸图



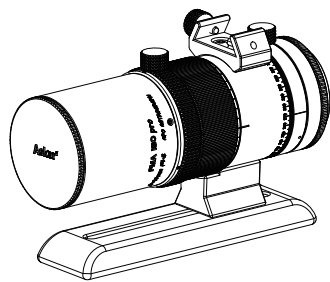
相机连接示意图



部件图



包装含有



FMA180 pro本体



说明书

English

Instructions for use

To provide customers with more options, Askar has launched the new FMA180 pro.

FMA180pro is similar to the FMA180 in optical structure. The objective lens features a sextuplet air-spaced APO design and includes two pieces of ED (extra-low dispersion) glass, providing excellent correction of chromatic aberration, which lays the foundation for high-quality astrophotography and observation. It has an aperture of 40mm, a focal ratio of f/4.5, and a focal length of 180mm.

In addition to visual observations, the FMA180 pro is specially optimized for astrophotography. Compared to FMA180, FMA180 pro adds a finder base and a 360° rotator. What's more, the focuser upgraded to a new integrated internal focus system which promotes its stability and ensures its performance in use as a delicate, high-quality, and compact astrograph.

The FMA180 pro comes with an M48 adapter at the rear end, and the back focus is the standard 55mm. The multifunctional base can not only be used for astrophotography but also be

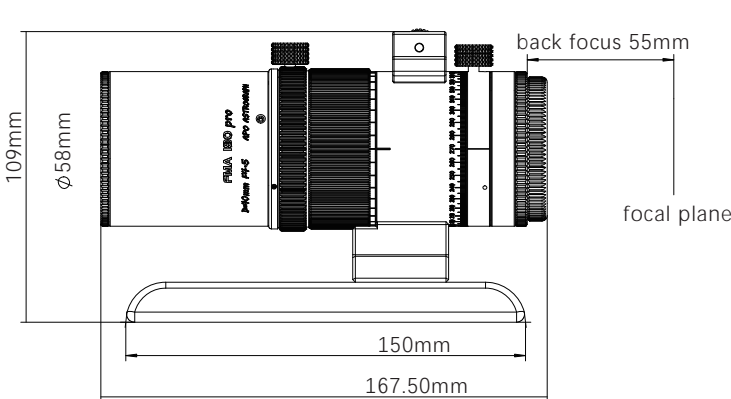
mounted onto other telescopes' finder bases as a finder scope after the Vixen dovetail plate is detached.

In a word, FMA180 pro is a compact astrograph for astrophotography with more integrated functions and a more dedicated design.

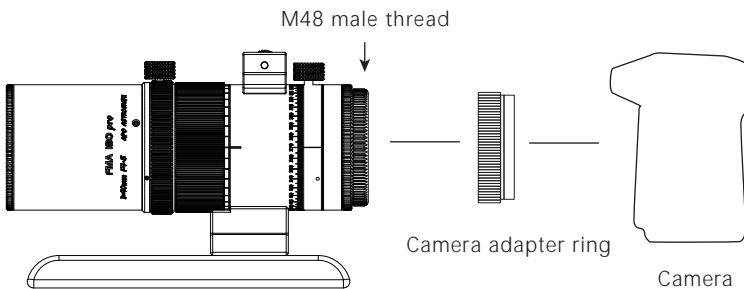
Specification

Aperture: 40mm
Focal length: 180mm
Focal ratio: f4.5
Objective type: Sextuplet air-spaced APO
(including two ED glasses)
Overall length: 167.5mm
Weight: 0.8kg
Rear-end thread type: M48x0.75 (built-in 2" filter thread)
Package items: a FMA180pro,a manual

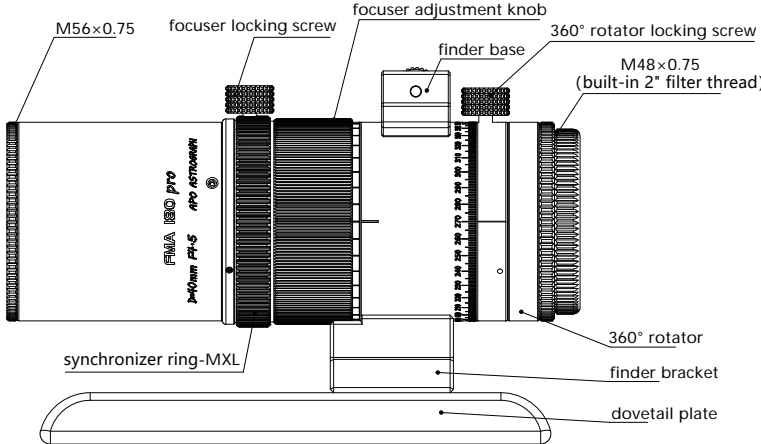
Product Size Diagram



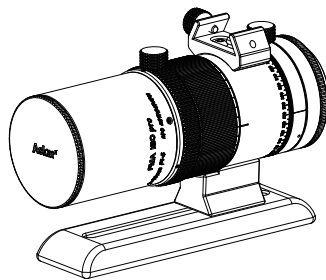
Connection Diagram of Camera



Product Parts Diagram



Items in FMA180pro Packaging



an FMA180 pro OTA



a manual