Askar

130PHQ

■ User's Manual

WARNING!!

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

www.askarlens.com

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.

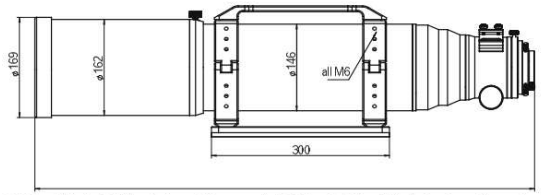
130PHQ comes with a telescopic lens hood, a high quality CNC machined and painted tube and attractive decorative parts. The 3.4" rigid focuser comes with M68, M54, and M48 camera adapters and a finder base. When used with the 3" 0.7 x flat field reducer, the telescope can reach a focal ratio of f/5.4 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)

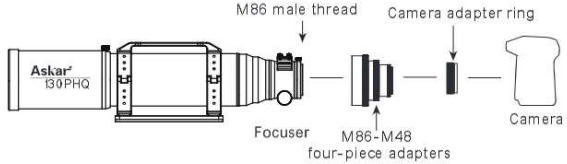
Net weight: 10.5kg
Gross weight: 12.5kg
Rear-end thread type:
M86×1-M68×1
M68×1-M54×0.75
M54×0.75-M54×0.75
M54×0.75-M48×0.75 (M48×0.75 filter thread inside)
Standard package items: an 130PHQ OTA, a pair of tube rings, a handle, an Askar losmandy 300mm dovetail plate, a set of 4-piece photographic adapters, an aluminum box, a manual

Product Size Diagram

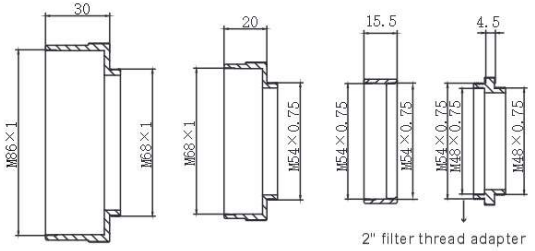


842.5mm(with the 1.25" visual adapter fully retreated) 1011.5mm(with the 1.25" visual adapter fully stretched)
889.5mm(plus the photographic adapter fully retreated) 1061.5mm(plus the photographic adapter fully stretched)

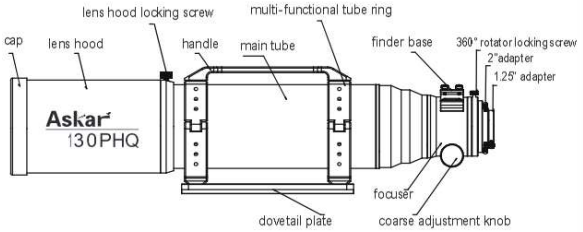
Connection Diagram of Camera



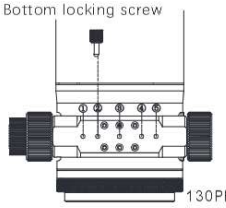
4-piece Photographic Adapter Diagram



Product Parts Diagram

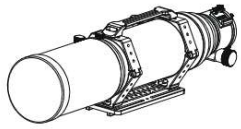


The Locking Screw Position Diagram



②Bottom locking screw
④Bottom load adjustment screw hole (contains M4 small screws)
①③⑤can be used for electric focusing bracket installation

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