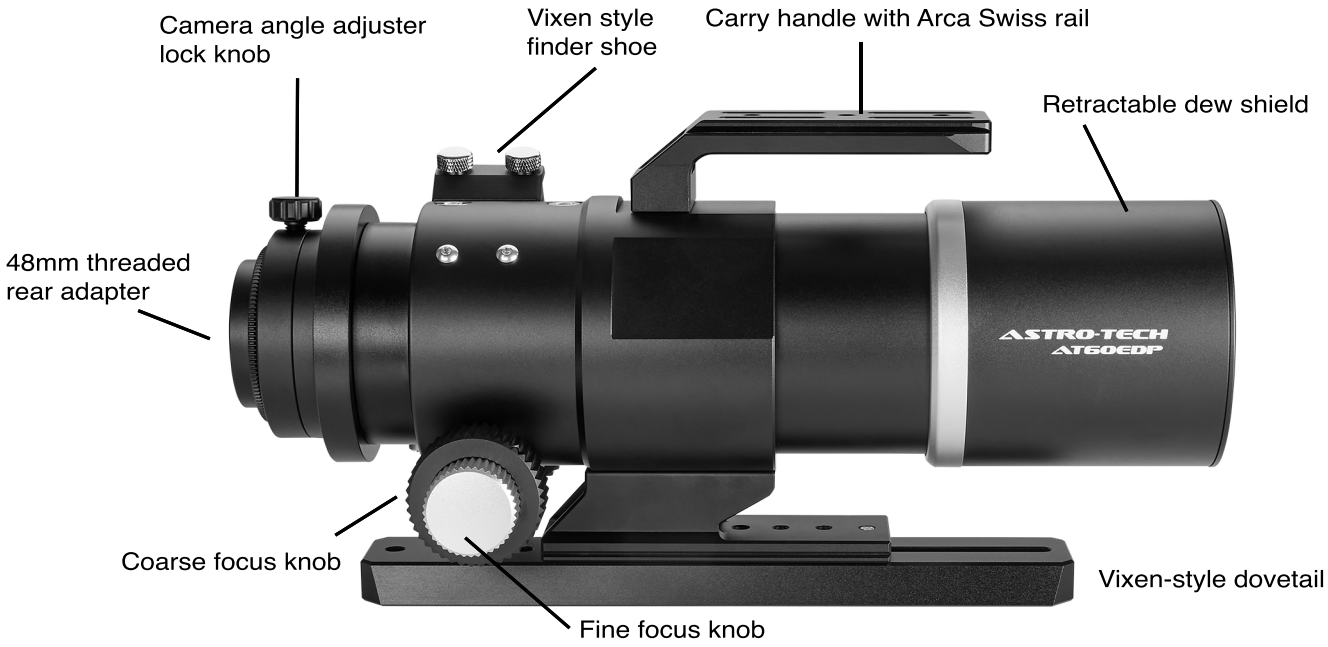
ASTRO-TECH AT60EDP

Thank you for choosing this Astro-Tech EDP high-quality apochromatic petzval refractor!

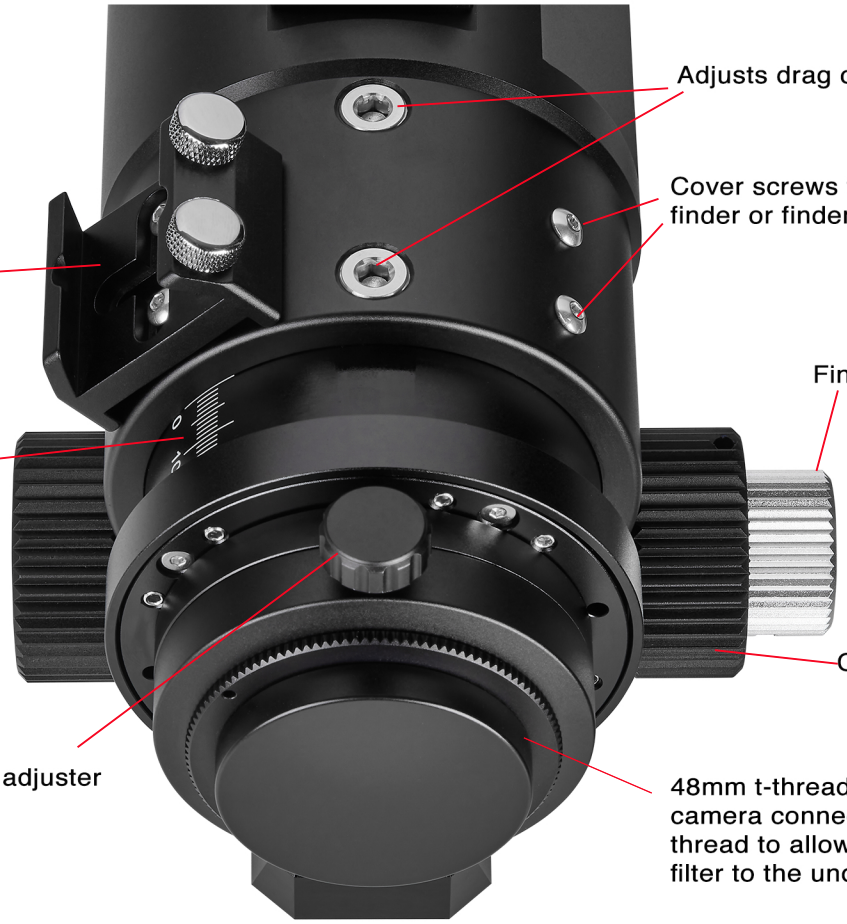
Its 300mm f/5 apochromatic petzval lens system uses an FCD-100 ED (Extra-low Dispersion glass) element, as well as an FK-61 ED element, to provide very wide field images that are color-free. The petzval design assures that those images will be sharply focused from one edge of the field to the other and covers a 44mm image circle. The design not only eliminates the need for a separate external field flattener that is needed for the best images with most other fast focal ratio astrograph refractors, it also eliminates the need to worry about camera spacing. At its low price, we believe you'll find that the wide field imaging performance of your AT60EDP is little short of astonishing.

This instruction sheet will provide you with information on how to get the most out of your new Astro-Tech refractor, and how to properly maintain it so it can give you a lifetime of observing enjoyment. Please familiarize yourself with the parts and functions of your Astro-Tech EDP petzval refractor before using it for the first time.



ASTRO-TECH EDP SPECS

Aperture ..... 60mm (2.36")
Focal Length 300mm
Focal Ratio f/5
Optical System ..... apochromatic Petzval with one FCD-100 ED element and a second FK-61 ED element
Optical Coatings ..... fully multicoated
Resolving Power (Dawes' Limit) .....1.93 arc seconds
Visual Limiting Magnitude ..... 11.6 maximum
Light Grasp (versus the eye) 73x
Image Circle 44mm
Focuser .....dual-speed 2" rack and pinion with 10:1 reduction ratio fine focus; 360° rotating camera angle adjuster
Focuser Travel ..... 20mm with millimeter scale on drawtube for repeatable focus
Back Focus .....41-61mm working distance
Dew Shield ..... retractable, 95mm o.d.
Objective Lens Cover ..... slip-on metal
Finder Bracket ..... Vixen-style mounting shoe
Tube Diameter ..... 85mm o. d.
Tube Length (dew shield retracted) .....10.5" (267mm)
Tube Length (dew shield extended) ..... 12.75" (324mm)
Weight ..... 6.9 lbs. (3.13 kg);


Adjusts drag on drawtube
Cover screws to mount additional finder or finder shoe
Vixen-style finder shoe
Fine focus knob
Focusing Scale on focuser drawtube
Coarse focus knob
Camera angle adjuster lock knob
48mm t-thread rear cell for direct camera connection. The piece with un-thread to allow you to thread a 48mm filter to the underside of the adapter.


If you choose to install an electronic focuser of some type, you will need to take off this cover screw so you can get to the two screws holding the coarse focus knob onto the focuser shaft.
Focuser lock knob

Here you can see the camera adapter unthreaded from the focuser exposing the ability to thread a 2” filter into your imaging train.

Your Astro-Tech AT60EDP astrograph has a 2” rack and pinion focuser with the abiltity to unthread the camera adapter and install a 2” filter into your imaging train.

Photographically, the 360mm focal length of your AT60EDP provides low power wide-angle DSLR, 35mm, CMOS, and CCD images of nebulas, open star clusters, large galaxies, and comets.

Mounting the AT60EDP: Your AT6EDP comes with a built-in mounting system complete with a handle on top and a 9.75“ long Vixen style dovetail on the bottom. The Vixen dovetail can be removed if you wish to switch to a different size dovetail.

Sliding Dew Shield: The self-storing retractable dew shield slows the formation of dew on the lens to extend your undisturbed imaging time. It also improves the contrast, similar to the effect of the lens shade on a camera lens when there is excessive ambient light at night, such as a neighbor’s backyard security light.

Rotating Your Camera: The focuser’s camera angle adjuster can be rotated 360° for the best image composition. Loosening the large black lock knob in front of the threaded camera adapter by turning it counterclockwise lets you rotate your camera without disturbing the focus. Turning the knob back clockwise locks your camera at the chosen angle.

Locking in the Camera Focus: The 2” rack and pinion focuser has dual focusing speeds. The ten-to-one fine focus ratio allows very precise focusing. A lock knob is threaded on the underside of the focuser body. Be sure to tighten the lock knob firmly to avoid focus changes during an exposure, particularly with a heavy camera. There is a millimeter scale on top of the focuser drawtube to help you return to the approximate correct focus when switching between cameras or between camera and star diagonal.

Caring for your scope's optics: Never store your telescope in a damp or humid environment. Avoid leaving it in a hot environment (exposed to direct sunlight on a window sill, in a car trunk, etc.) If you must store it in high humidity conditions, put a few packets of desiccant (silica gel or the equivalent, available from most camera stores) in with your scope to absorb excess moisture. If not properly stored in a humid environment, your EDP refractor may develop mildew which can damage the optics.

If dew has formed on your scope after an observing session, allow the scope optics to air dry at room temperature before putting the lens cover on the scope and storing it away.

If the front surface of the objective becomes dusty, smeared, or shows fingerprints or any other surface build-up, clean it as follows.

First, gently blow away any surface dust or particles with a clean air blower (a child's ear syringe or a photographer's camel's hair brush with attached blower bulb, for example). Using canned or compressed air is not recommended, as the propellant in the can may spit out and leave difficult-to-remove deposits on the lens.

Next, moisten a cloth or low-linting Kimwipe with a few drops of a photographic-quality optical cleaning solution designed for multicoated camera and binocular lenses. A well-worn cotton handkerchief works well. Do not drip the cleaning fluid directly on the lens. Use the barely damp (not wet) cloth to gently wipe the lens surface clean. Turn the cloth frequently to always keep a clean portion of the cloth in contact with the lens. Blot the lens dry with a dry portion of the cleaning cloth or with a separate cloth or Kimwipe. Start with a clean cloth each time cleaning is needed.

Avoid overcleaning your optics. The multicoatings on the lens are quite hard and durable. However, frequent overzealous cleaning can scratch the coatings if all the dust particles (which are often tiny flecks of windborne rock) are not removed before you start pushing a damp cloth around the lens surface. A few specks of dust on the lens will not be visible in your images, as they are not in the focal plane and don't block enough light to measure, let alone be seen. Clean your optics only when absolutely necessary. If you take proper care of your scope, cleaning should rarely be needed.

Caring for your scope's finish: Your EDP refractor has a durable powder-coated finish on its matte black body and matte black focuser, with silver anodized trim. The body can become smudged with fingerprints during use, but these will not harm the finish. A clean soft cloth slightly dampened with plain water (or a little moisture from your breath and a quick wipe with a clean handkerchief) is generally enough to remove any fingerprints. Avoid harsh chemical cleaners or organic solvents like benzene, alcohol, etc., as these may ruin the finish. They can certainly affect the optical coatings if they accidentally drip or splash on the lens.

Caution! Never directly view the Sun with your telescope! Never aim your EDP scope at the Sun without having a professionally-manufactured solar filter mounted over the objective lens. Viewing the Sun through the scope without the proper protection for even a moment may result in permanent severe damage to your eyes, and can even cause blindness.

Astro-Tech Warranty
Thank you for purchasing this Astronomy Technologies product. It is warranted to be free from flaws in materials or workmanship for a period of one year from the date of original purchase. During the one year warranty period, we will repair or replace (at our option) any optical or mechanical component that is found to be defective in manufacture. This warranty does not apply to normal wear and tear; damage to the optical coatings due to excessive or careless cleaning; to any product that has been disassembled, abused, or mishandled; or where unauthorized repairs or modifications have been attempted or performed. In the case of a telescope, the warranty does not apply to any freight damage in transit to the hard storage case in which a telescope is shipped. The defective product should be returned prepaid to the dealer from whom it was purchased. The repaired or replaced product will be returned to the purchaser prepaid.

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