



ASTRO-TECH AT80ED

from Astronomy Technologies

Thank you for choosing this **Astro-Tech AT80ED** high-performance ED refractor.

The images from its fully-multicoated ED (Extra-low Dispersion glass element) air-spaced doublet optics are virtually free of the annoying violet haloes of chromatic aberration (spurious color) that are typically seen around the Moon, planets, and bright stars in lesser refractors.

Precision-made, with many useful mechanical features (such as a rotating dual-speed focuser and a very flexible split ring plus dovetail mounting system), the AT80ED is

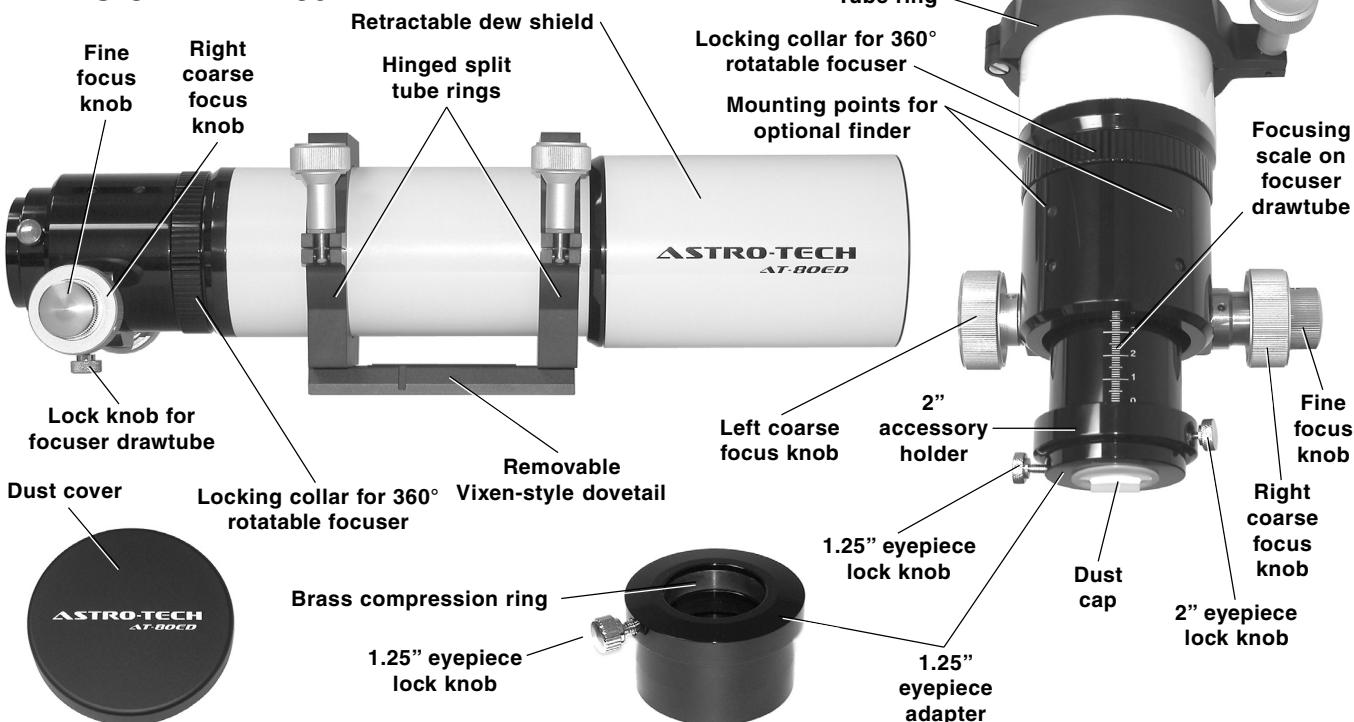
a clear step ahead of competitive scopes.

At its exceptionally low price, we believe that you will find that the mechanical and optical performance of your AT80ED is little short of astonishing.

This instruction sheet will provide you with information on how to get the most out of your new telescope, and how to properly maintain your telescope so it can give you a lifetime of observing enjoyment.

Please familiarize yourself with your telescope's parts and functions before operating it for the first time.

PARTS OF THE AT80ED



Astro-Tech AT80ED Doublet Refractor Specifications

Aperture	80mm (3.1")
Focal Length	560mm
Focal Ratio	f/7
Objective Type	air-spaced doublet with ED element
Optical Coatings	fully multicoated
Resolving Power (Dawes' Limit)	1.45 arc seconds
Visual Limiting Magnitude	12.0 maximum
Light Grasp (versus the eye)	131x
Field Stops	two glare-reducing baffles in optical tube
Focuser	dual-speed Crayford-type with 11:1 reduction ratio fine focus (a 10:1 ratio <i>Feather Touch</i> focuser is optional); 360° rotating camera angle/observing angle adjuster; and 2" and 1.25" compression ring eyepiece holders
Focuser Travel	3.35" (85mm) with millimeter scale on drawtube for repeatable focus
Lens Shade	retractable

Objective Lens Cover	slip-on metal
Tripod Mount	dual split hinged tube rings with Vixen-style dovetail for direct mounting on Astro-Tech, Celestron, Meade, and Vixen mounts
Tube Diameter	90mm o. d.
Tube Length (lens shade retracted)	18" (457mm)
Tube Length (lens shade extended)	21.75" (527mm)
Optical Tube Weight	6.8 lbs (3.09 kg) with standard focuser; 6.45 lbs (2.93 kg) with optional <i>Feather Touch</i> focuser (both weights include rings and dovetail)
Case	aluminum-frame foam-fitted lockable hard case, with carrying handle
Case Dimensions	20.75" x 12.75" x 8.75"
Lowest Usable Power	14x (40mm eyepiece)
Highest Terrestrial Power	80x (7mm eyepiece)
Highest Practical Power	160x (3.5mm eyepiece)
Theoretical Maximum	187x (3mm eyepiece)

