The Astro 7" is based on the acclaimed Questar 7" Maksutov design. The combination of unsurpassed optics with a simple rugged design contribute to making it the idea medium to high magnification lens by changing eyepieces or adding optional auxiliary lenses to change EFL. The system is set up to use 2" slip type eyepieces via the 2" mirror diagonal. The 7" diagonal can be adapted via eyepiece adapter to accept 1 ¼" or the Questar Brandon. The Astro is light, compact, and well-balanced; its configuration makes it perfect for use with eyepieces, video and night vision, and photographic equipment.

- **Working Range**: 18m (60ft.) to infinity
- **Optical Resolution**: .6 arc second
- **Clear Aperture**: 178mm (7 inches)
- **Effective Focal Length**: 2400mm
- **F-Number**: 13.4 @ 2400mm EFL
- **Spectral Response**: 0.35 – 1.5 micron
- **Design Type**: Maksutov Cassegrain Catadioptric
- **Corrector**: BK7/MgF2, 178mm (7 inches) diameter
- **Primary Mirror**: Pyrex substrate, aluminum coated, SiO overcoat, 193mm (7.6 inches)
- **Secondary Mirror**: Aluminum coating on corrector, SiO overcoat, 47mm (1.87 inches) diameter
- **Baffling**: Wire helix in central tube
- **Barrel**: Aluminum heat-treated tube and precision machined with corrector cell
- **Rear Closure Plate**: Aluminum; machined
- **Central Tube**: Centerless ground stainless steel and 6" Ø stainless steel mounting plate
- **Mirror Mount/Focusing Tube**: Precision linear rotor bearing matched to central tube, integrated with mirror mounting thimble
- **Focus Mechanism**: 32-pitch stainless steel focus rod; direct acting on mirror thimble, spring loaded
- **Focus Control**: 25mm (1-inch) diameter straight knurled anodized aluminum knob
- **Finish**: Aluminum parts anodized, optional exterior surfaces Polane T polyurethane, white color hardware and fasteners stainless steel
- **Mounting**: Tripod mount with ¼" – 20 & 3/8" – female threads
- **Eyepiece Magnifications**: (1 ¼ type or thread)
  - 9mm ………..266X
  - 12mm ………..200X
  - 16mm ………..150X
  - 18mm ………..133X
  - 24mm ………..100X
  - 32mm ………..75X
DIMENSIONS
Length with Diagonal 21.93”
Maximum Height 24.2cm (9.53 inches)
Maximum Diameter 20.4cm (8.03 inches)
Case (outside)
  Length ......................71cm (28 inches)
  Depth ......................45cm (18 inches)
  Height .....................30cm (12 inches)
Weight
  Bare Lens with diagonal & eyepiece .......... 19lbs (8.8kg)
  Lens with diagonal, eyepiece, & dew cap .... 21obs (9.5kg)
  Standard package complete in case ............47lbs (21.3kg)