



Clifton Cameras Product Specification

Celestron StarSense Explorer LT 114AZ Newtonian Reflector Telescope

Specifications

Optical Tube

Optical Design:	Newtonian Reflector
Aperture:	114mm (4.5")
Focal Length:	1000mm (39.3")
Focal Ratio:	f/9
Focal Length of Eyepiece 1:	25mm (0.98")
Magnification of Eyepiece 1:	40x
Focal Length of Eyepiece 2:	10mm (0.39")
Magnification of Eyepiece 2:	100x
Barlow Lens:	2x (1.25")
Finderscope:	StarPointer™ red dot finderscope
Optical Tube:	Steel
Highest Useful Magnification:	269x
Lowest Useful Magnification:	16x
Limiting Stellar Magnitude:	12.8
Resolution (Rayleigh):	1.22 arc seconds
Resolution (Dawes):	1.02 arc seconds
Light Gathering Power (Compared to human eye):	265x
Secondary Mirror Obstruction:	44mm (1.73")
Secondary Mirror Obstruction by Diameter:	38%
Secondary Mirror Obstruction by Area:	14%
Optical Coatings:	Glass mirrors coated with aluminum and SiO ₂
Optical Tube Length:	609.6mm (24")
Optical Tube Diameter:	147mm (5.78")



Optical Tube Weight: 6.6 lbs (2.99 kg)

Dovetail: None

Mount

Mount Type: Manual Alt-Azimuth

Height adjustment range (includes mount and tripod): Aluminum, 1320.8mm (52") max height

Tripod Leg Diameter: 31.75mm (1.75") steel

Accessory Tray: Yes

Tripod Weight: 3.8 lbs (1.72 kg)

Slew Speeds: Manual

GPS: Uses phone's GPS

Dovetail Compatibility: None

Power Requirements: None (Recommend PowerTank Glow to keep phone charged while using App)

Alignment Procedures: Use StarSense Explorer App

Software: StarSense Explorer App | SkyPortal App | Celestron Starry Night Basic Edition Software

Total Kit Weight: 10.4 lbs (4.71 kg)

Included Items: Optical tube | Mount and tripod (preassembled) | 25mm and 10mm eyepieces | 2x Barlow Lens | StarPointer finderscope | Accessory tray | StarSense Explorer phone dock

Solar Warning

- Never look directly at the Sun with the naked eye or with an optic (unless you have the proper solar filter). Permanent and irreversible eye damage may result.
- Never use your optic to project an image of the Sun onto any surface. Internal heat build-up can damage the optic and any accessories attached to it.
- Never leave your optic unsupervised. Make sure an adult who is familiar with the correct operating procedures is with your optic at all times, especially when children are present.