



Clifton Cameras Product Specification

Celestron StarSense Explorer LT 127AZ Newtonian Reflector Telescope Full Spec

OPTICAL TUBE INFO:

Optical Design:	Newtonian Reflector
Aperture:	127mm (5")
Focal Length:	1000mm (39.3")
Focal Ratio:	f/7.87
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")

OPTICAL TUBE INFO:

Finderscope:	StarPointer™ red dot finderscope
Optical Tube:	Steel
Highest Useful Magnification:	300x
Lowest Useful Magnification:	18x
Limiting Stellar Magnitude:	13
Resolution (Rayleigh):	1.1 arc seconds
Resolution (Dawes):	.91 arc seconds
Light Gathering Power (Compared to human eye):	329x
Secondary Mirror Obstruction:	41mm (1.6")
Secondary Mirror Obstruction by Diameter:	32%
Secondary Mirror Obstruction by Area:	10%

OPTICAL TUBE INFO:

Optical Coatings:	Glass mirrors coated with aluminum and SiO ₂
Optical Tube Length:	457.2mm (18")
Optical Tube Diameter:	165.1mm (6.5")
Optical Tube Weight:	7.6 lbs (3.44 kg)
Dovetail:	None

MOUNT INFO:

Mount Type:	Manual Alt-Azimuth
Height adjustment range (includes mount and tripod):	Aluminum, 1320.8mm (52") max height
Tripod Leg Diameter:	31.75mm (1.25") steel
Accessory Tray:	Yes
Tripod Weight:	3.8 lbs (1.72 kg)



OPTICAL TUBE INFO:

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, and Celestron Starry Night Basic Edition

Total Kit Weight:

11.4 lbs (5.17 kg)

Included Items:

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