



Clifton Cameras Product Specification

Celestron StarSense Explorer LT 80AZ Smartphone App-Enabled Refractor Telescope

Specifications

OPTICAL TUBE INFO:

Optical Design:	Refractor
Aperture:	80mm (3.1")
Focal Length:	900mm (35.43")
Focal Ratio:	f/11
Focal Length of Eyepiece 1:	25mm (0.98")
Magnification of Eyepiece 1:	36x
Focal Length of Eyepiece 2:	10mm (0.39")
Magnification of Eyepiece 2:	90x
Barlow Lens:	2x (1.25")
Finderscope:	StarPointer™ red dot finderscope
Star Diagonal:	Erect image 90° (1.25")
Optical Tube:	Aluminum
Highest Useful Magnification:	189x
Lowest Useful Magnification:	11x
Limiting Stellar Magnitude:	12
Resolution (Rayleigh):	1.74 arc seconds
Resolution (Dawes):	1.45 arc seconds
Light Gathering Power (Compared to human eye):	131x
Optical Coatings:	Fully Coated glass optics
Optical Tube Length:	965mm (38")



Optical Tube Diameter: 90mm (3.54")

Optical Tube Weight: 5.4 lbs (2.45 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: .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: 9.2 lbs (4.17 kg)

Included Items: Optical tube | Mount and tripod (preassembled) | 25mm and 10mm eyepieces | Erect image diagonal | 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.