



Clifton Cameras Product Specification

Celestron StarSense Explorer DX 130AZ Newtonian Reflector Telescope Full Spec

Optical Tube Info:

Optical Design: Newtonian Reflector

Aperture: 130mm (5.11")

Focal Length: 650mm (25.59")

Focal Ratio: f/5

Focal Length of Eyepiece 1: 25mm (0.98")

Magnification of Eyepiece 1: 26x

Focal Length of Eyepiece 2: 10mm (0.39")

Magnification of Eyepiece 2: 65x

Barlow Lens: Not Included

Finderscope: StarPointer™ red dot finderscope

Optical Tube: Steel

Highest Useful Magnification: 307x

Lowest Useful Magnification: 19x

Limiting Stellar Magnitude: 13.1

Resolution (Rayleigh): 1.07 arc seconds

Resolution (Dawes): .89 arc seconds

Light Gathering Power (Compared to human eye): 345x

Secondary Mirror Obstruction: 45mm (1.73")

Secondary Mirror Obstruction by Diameter: 34%

Secondary Mirror Obstruction by Area: 11%



Optical Coatings: Glass mirrors coated with aluminum and SiO₂

Optical Tube Length: 635mm (25")

Optical Tube Diameter: 165mm (6.49")

Optical Tube Weight: 8.8 lbs (3.99 kg)

Dovetail: CG-5 Dovetail Bar

Mount Info:

Mount Type: Manual Alt-Azimuth

Height adjustment range (includes mount and tripod): Aluminum, 1244.6mm (49") max height

Tripod Leg Diameter: N/A

Accessory Tray: Yes

Tripod Weight: 9.2 lbs (4.17 kg)

Slew Speeds: Manual

GPS: Uses phone's GPS

Dovetail Compatibility: CG-5 Dovetail bar

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: 18 lbs (8.16 kg)

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