



Clifton Cameras Product Specification

Celestron Astro FI 130mm Newtonian Telescope Full Spec

Optical Tube Info:

Optical Design: Newtonian Reflector

Aperture: 130mm (5.19")

Focal Length: 650mm (25.59")

Focal Ratio: f/5

Focal Length of Eyepiece 1: 25mm (.98")

Magnification of Eyepiece 1: 26x

Focal Length of Eyepiece 2: 10mm (.39")

Magnification of Eyepiece 2: 65x

Finderscope: StarPointer™ red dot finderscope

Star Diagonal: None

Optical Tube: Aluminum

Highest Useful Magnification: 307x

Lowest Useful Magnification: 19x

Limiting Stellar Magnitude: 13.1

Resolution (Rayleigh): 1.07 arc seconds arc seconds

Resolution (Dawes): .89 arc seconds arc seconds

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

Secondary Mirror Obstruction: 38mm (1.5")

Secondary Mirror Obstruction by Diameter: 29%

Secondary Mirror Obstruction by Area: 9%

Optical Coatings: Aluminum with SiO₂



Optical Tube Length: 635mm (25")

Optical Tube Diameter: 162mm (6.37")

Optical Tube Weight: 8 lbs (3.6 kg)

Dovetail CG-5 Dovetail bar

Mount Info:

Mount Type: Computerized Altitude-Azimuth Single Fork Arm

Instrument load capacity: 8 lbs (3.6 kg)

Height adjustment range (includes mount and tripod): 863.6mm - 1371.6mm (34" - 54")

Tripod leg diameter: 31.75mm (1.25") aluminum

Mount Head Weight: 5 lbs (2.3 kg)

Accessory Tray: Yes. Includes rubberized smartphone or tablet holder

Tripod Weight: 5 lbs (2.3 kg)

Slew Speeds: Up to 3°/second

Tracking Rates: Sidereal, Solar, and Lunar

Tracking Modes: Alt-Az, EQ North and EQ South

GPS: N/A

Dovetail Compatibility: CG-5 dovetail

Number of Auxiliary Ports: 2x AUX Port for optional accessories

Autoguide Port: No

USB Port: No (only with optional Nexstar+ remote)

Power Requirements: 12V DC, 1A (Tip positive)

Motor Drive: DC servo motor

Alignment Procedures: SkyAlign, 3-Star Align, Solar System Align

Periodic Error Correction: No

Computerized Hand Control: Hand control not included (optional)



NexStar+ Database: Optional Nexstar+ hand remote provides over 40,000 objects in the computer's database

Software: Celestron Starry Night Special Edition Software | SkyPortal App. Each provide over 100,00 objects in their database

Total Kit Weight: 18 lbs (8.16 kg)

Included Items: Optical tube | Mount and tripod | Accessory tray | 2x eyepieces | StarPointer™ red dot finderscope | Battery pouch

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.