

Clifton Cameras Product Specification

Celestron NexStar Evolution 6 Inch SCT Telescope Full Spec

OPTICAL TUBE INFO:

Optical Design:	Schmidt-Cassegrain
Aperture:	150mm (6")
Focal Length:	1500mm (59")
Focal Ratio:	f/10
Focal Length of Eyepiece 1:	40mm (1.57")
Magnification of Eyepiece 1:	38x
Focal Length of Eyepiece 2:	13mm (0.51")
Magnification of Eyepiece 2:	115x
Finderscope:	Red Dot Finderscope

OPTICAL TUBE INFO:

Star Diagonal: 1.25" Star Diagonal

Optical Tube: Aluminum

Highest Useful Magnification: 354x

Lowest Useful Magnification: 21x

Limiting Stellar Magnitude: 13.4

Resolution (Rayleigh): 0.93 arc seconds

Resolution (Dawes): 0.77 arc seconds

Light Gathering Power (Compared to human eye): 459x

Secondary Mirror Obstruction: 56mm (2.2")

Secondary Mirror Obstruction by Diameter: 37%

Secondary Mirror Obstruction by Area: 14%

OPTICAL TUBE INFO:

Optical Coatings:	StarBright XLT
Optical Tube Length:	406mm (16")
Optical Tube Diameter:	184.15mm (7.25")
Optical Tube Weight:	10 lbs (4.54 kg)
Dovetail:	CG-5 Dovetail bar

MOUNT INFO:

Mount Type:	Computerized Altitude-Azimuth Single Fork Arm
Instrument load capacity:	25 lbs (11 kg)
Height adjustment range (includes mount and tripod):	1193.8mm - 1752.6mm (47" – 69")
Tripod Leg Diameter:	38.1mm (1.5") Stainless Steel
Mount Head Weight:	16 lbs (7 kg)

OPTICAL TUBE INFO:

Accessory Tray:	Yes
Tripod Weight:	12 lbs (5.44 kg)
Slew Speeds:	9 slew speeds - max speed 4°/second
Tracking Rates:	Sidereal, Solar and Lunar
Tracking Modes:	Alt-Az, EQ North and EQ South
GPS:	N/A
Dovetail Compatibility:	CG-5 saddle plate
Number of Auxiliary Ports:	4 AUX Ports (Hand Control can use any of the AUX Ports)
Autoguide Port:	No
USB Port:	Yes, Hand Control input and Mount output
Power Requirements:	Internal 9.6V, 4.5Ah lithium iron phosphate battery (LiFePO4), charge battery with 12VDC, 5.0Amps

OPTICAL TUBE INFO:

Motor Drive:	DC servo motors
Alignment Procedures:	SkyAlign, 1-Star Align, 2-Star Align, Auto 2-Star Align, Solar System Align, Quick-Align, Last Alignment, EQ North / EQ South Alignment (EQ align requires an equatorial wedge)
Periodic Error Correction:	No
Computerized Hand Control:	2 line x 18 character backlit Liquid Crystal Display, 19 LED backlit buttons, USB 2.0 Port for PC connection
NexStar+ Database:	Over 40,000 including 220 of the best deep sky and solar system objects
Software:	Celestron Starry Night Special Edition Software and SkyPortal App
Total Kit Weight:	38 lbs (17.23 kg)
Included Items:	Optical tube Single Fork Arm Mount and Tripod Accessory Tray Built-in Wifi Integrated Lithium-iron battery NexStar+ Hand Control 40mm and 13mm eyepiece Red dot finderscope Visual Back Star Diagonal 4 plug AC adapter