

## **Clifton Cameras Product Specification**

**Celestron NexStar Evolution 5 Inch SCT Telescope Full Spec** 

OPTICAL TUBE INFO:	
Optical Design:	Schmidt-Cassegrain
Aperture:	125mm (5")
Focal Length:	1250mm (49")
Focal Ratio:	f/10
Focal Length of Eyepiece 1:	40mm (1.57")
Magnification of Eyepiece 1:	31x
Focal Length of Eyepiece 2:	13mm (.51")
Magnification of Eyepiece 2:	96x
Finderscope:	StarPointer™ red dot finderscope
Star Diagonal:	90° Prism - 1.25"



## OPTICAL TUBE INFO:

Optical Tube:	Aluminum
Highest Useful Magnification:	295x
Lowest Useful Magnification:	18x
Limiting Stellar Magnitude:	13
Resolution (Rayleigh):	1.11 arc seconds
Resolution (Dawes):	0.93 arc seconds
Light Gathering Power (Compared to human eye):	329x
Secondary Mirror Obstruction:	51mm (2")
Secondary Mirror Obstruction by Diameter:	40%
Secondary Mirror Obstruction by Area:	17%
Optical Coatings:	StarBright XLT



OPTICAL TUBE INFO:	
Optical Tube Length:	330mm (13")
Optical Tube Diameter:	152mm (6")
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:	31.75mm (1.25") Stainless Steel
Mount Head Weight:	16 lbs (7 kg)
Accessory Tray:	Yes



**OPTICAL TUBE INFO:** 

**Motor Drive:** 

## **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 Internal 9 6V, 4 5Ah lithium iron phosphate battery (LiFePO4) **Power Requirements:**

DC servo motors



**OPTICAL TUBE INFO:** 

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)
No
2 line x 18 character backlit Liquid Crystal Display,
19 LED backlit buttons, USB 2.0 Port for PC connection
Over 40,000 including 220 of the best deep sky and solar system objects
Celestron Starry Night Special Edition Software and SkyPortal App
38 lbs (17.23 kg)
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