

Clifton Cameras Product Specification

Celestron NexStar 8SE Computerized Telescope Full Spec

Optical Tube Info:			
Optical Design:	Schmidt-	Cassegrain	
Aperture: 203.2mm (8")			
Focal Length:	2032mm	(80")	
Focal Ratio:	f/10		
Focal Length of Eyepiece 1: 25mm (.98")			
Magnification of Eyepiece 1: 81x			
Finderscope:	StarPoint	ter™ red dot finderscope	
Star Diagonal:	1.25" Sta	ır Diagonal	
Highest Useful Magnification: 480x			
Lowest Useful Magnification: 29x			
Limiting Stellar Magnitude:		14	
Resolution (Rayleigh):		0.69 arc seconds	
Resolution (Dawes):		0.57 arc seconds	
Light Gathering Power (Compared to human eye): 843x			
Secondary Mirror Obstruction: 64mm (2.5")			
Secondary Mirror Obstruction by Diameter: 31%			
Secondary Mirror Obstruction by Area: 9.77%			
Optical Coatings: Starbright XLT			
Optical Tube Leng	th:	432mm (17")	
Optical Tube Diam	eter:	232mm (9.1")	
Optical Tube Weight:		12 lbs (5.4 kg)	



Dovetail: CG-5 Dovetail bar

Mount Info:

Mount Type: Computerized Altitude-Azimuth Single Fork Arm			
Instrument load ca	pacity: 12 lbs (5.44 kg)		
Height adjustment range (includes mount and tripod): 965.2mm - 1422.4mm (38" - 56")			
Tripod leg diameter:38.1mm (1.5") Stainless Steel			
Mount Head Weigh	nt: 11 lbs (5 kg)		
Accessory Tray:	Yes		
Tripod Weight: 9 lbs (4.08 kg)			
Slew Speeds:	9 slew speeds - max speed 5°/second		
Tracking Rates: Sidereal, Solar and Lunar			
Tracking Modes: Alt-Az, EQ North and EQ South			
GPS: N/A			
Dovetail Compatibi	ility: CG-5 dovetail		
Number of Auxiliar	y Ports: 1x AUX Port		
Autoguide Port:	Yes		
USB Port: Yes, Hand Control input			
Power Requiremer	nts: 8-AA batteries (not included) I 12 VDC-750 mA (Tip positive)		
Motor Drive:	DC servo motors		
Alignment Procedures: SkyAlign, 1-Star Align, 2-Star Align, Auto 2-Star Align, Solar System Align, EQ North / EQ South Alignment (EQ align requires an equatorial wedge)			
Periodic Error Corr	rection: No		
Computerized Han	d Control: Double line, 18 character Liquid Crystal Display with 19 fiber optic backlit LED buttons		
NexStar+ Databas over 200 objects	e: 40,000 objects, 200 user defined programmable objects. Enhanced information on		
Software: Celestron Starry Night Special Edition Software I SkyPortal App			
Total Kit Weight: 24 lbs (10.88 kg)			

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Included Items: Optical tube | Single Fork Arm Mount and Tripod | Accessory Tray | Star Pointer Finderscope | NexStar+ Hand Control | 25mm eyepiece | Star Diagonal

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.