

# Clifton Cameras Product Specification

## Celestron StarSense Explorer DX 5 inch SCT Full Spec

### OPTICAL TUBE INFO:

**Optical Design:** Schmidt-Cassegrain

**Aperture:** 125mm (5")

**Focal Length:** 1250mm (49.21")

**Focal Ratio:** f/10

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

**Magnification of Eyepiece 1:** 50x

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

**Magnification of Eyepiece 2:** 150x

**Barlow Lens:** Not Included

**Finderscope:** StarPointer™ red dot finderscope

**OPTICAL TUBE INFO:**

**Star Diagonal:** Erect image 90° (1.25")

**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 (2.0")

**Secondary Mirror Obstruction by Diameter:** 16.6%

**Secondary Mirror Obstruction by Area:** 40%

**OPTICAL TUBE INFO:**

<b>Optical Coatings:</b>	StarBright XLT
<b>Optical Tube Length:</b>	330mm (13")
<b>Optical Tube Diameter:</b>	171.45mm (6.75")
<b>Optical Tube Weight:</b>	5 lbs (2.26 kg)
<b>Dovetail</b>	CG-5 Dovetail Bar

**MOUNT INFO:**

<b>Mount Type:</b>	Manual Alt-Azimuth
<b>Height adjustment range (includes mount and tripod):</b>	Aluminum, 1320.8mm (52") max height
<b>Tripod Leg Diameter:</b>	31.75mm (1.25") steel
<b>Accessory Tray:</b>	Yes
<b>Tripod Weight:</b>	3.8 lbs (1.72 kg)



**OPTICAL TUBE INFO:**

**Slew Speeds:**

Manual

**GPS:**

Uses phone's GPS

**Dovetail Compatibility:**

CG-5

**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, and Celestron Starry Night Basic Edition

**Total Kit Weight:**

9 lbs (4.08 kg)

**Included Items:**

Optical tube  
Mount and tripod (preassembled)  
25mm and 10mm eyepieces  
Erect image diagonal  
StarPointer finderscope  
Accessory tray  
StarSense Explorer phone dock