



# Clifton Cameras Product Specification

## StarSense Explorer DX 102AZ Telescope Full Spec

### OPTICAL TUBE INFO:

Optical Design: Refractor

Aperture: 102mm (4.01")

Focal Length: 660mm (25.98")

Focal Ratio: f/6.5

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

Magnification of Eyepiece 1: 26x

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

Magnification of Eyepiece 2: 66x

Barlow Lens: Not Included

Finderscope: StarPointer™ red dot finderscope

Star Diagonal: Erect image 90° (1.25")

Optical Tube: Aluminum

Highest Useful Magnification: 240x

Lowest Useful Magnification: 15x

Limiting Stellar Magnitude: 12.5

Resolution (Rayleigh): 1.37 arc seconds

Resolution (Dawes): 1.14 arc seconds

Light Gathering Power (Compared to human eye): 212x

Optical Coatings: Fully XLT Coated glass optics

Optical Tube Length: 812.8mm (32")

Optical Tube Diameter: 118mm (4.64")



Optical Tube Weight: 5 lbs (2.26 kg)

Dovetail: CG-5 Dovetail Bar

#### MOUNT INFO:

Mount Type: Manual Alt-Azimuth

Height adjustment range (includes mount and tripod): Aluminum, 1244.6mm (49") max height

Tripod Leg Diameter: N/A

Accessory Tray: Yes

Tripod Weight: 9.2 lbs (4.17 kg)

Slew Speeds: Manual

GPS: Uses phone's GPS

Dovetail Compatibility: CG-5 Dovetail bar

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 | Celestron Starry Night Basic Edition Software

Total Kit Weight: 14.2 lbs (6.44 kg)

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

#### 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.