



Clifton Cameras Product Specification

Celestron StarSense Explorer 8-inch Dobsonian Telescope

Specifications

OPTICAL TUBE INFO:

Optical Design:	Newtonian Reflector
Aperture:	203mm (8")
Focal Length:	1200mm (47.24")
Focal Ratio:	f/5.9
Focal Length of Eyepiece 1:	25mm (0.98")
Magnification of Eyepiece 1:	48x
Highest Useful Magnification:	480x
Lowest Useful Magnification:	29x
Limiting Stellar Magnitude:	14.2
Light Gathering Power:	841x as compared to the human eye
Optical Coatings:	XLT reflective coatings with silicon dioxide and tantalum pentoxide protective overcoatings for primary and secondary mirrors
Mirror Material:	Pyrex equivalent for primary and secondary mirrors
Primary Mirror Thickness:	25mm (0.98") (approx. 1:8 thickness ratio)
Secondary Mirror Thickness:	8.5mm (0.33")
Minor Axis of Secondary Mirror:	47mm (1.85")
Tube Material:	Steel
Focuser:	2" Crayford focuser, includes 2" extension tube and 2"-to-1.25" adapter
Finderscope:	StarPointer™ red-dot finderscope
Resolution Rayleigh:	0.68 arcseconds
Resolution Dawes:	0.57 arcseconds
Optical Tube Dimensions:	1117.6mm x 241.3mm diameter (44" x 9.5" diameter)
Optical Tube Weight:	20.6 lbs (9.34 kg)



MOUNT INFO:

Mount Type:	Altazimuth Dobsonian base
Base Material:	Particle board with melamine surfaces and edge trim, CARB compliant
Base Dimensions:	685.8mm x 482.6mm x 482.6mm (27" x 19" x 19")
Base Weight:	22.8 lbs (10.3 kg)
Slew Speeds:	Manual
Software:	Celestron Starry Night Basic Edition Software and StarSense Explorer App
Total Telescope Kit Weight:	43.4 lbs (19.68 kg)
Included Items:	Optical tube Dobsonian Base 25mm eyepiece 2" Crayford focuser StarPointer™ red-dot finderscope StarSense Explorer dock StarSense Explorer unlock code Eyepiece rack Collimation cap Celestron Starry Night Basic Edition Software

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.