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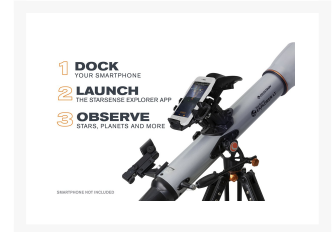
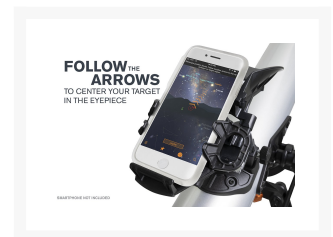
Opening Hours  
10am-5:30pm Mon-Fri  
9am-2pm Sat

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## Celestron StarSense Explorer LT 80AZ Telescope

AUD  
\$399.00

### Product Images



### Short Description

Unleash the power of your smartphone to take you on a guided tour of the night sky—no telescope experience required.

Patent-pending StarSense sky recognition technology uses your smartphone to analyze star patterns overhead and calculate its position in real time. [Check phone compatibility here.](#)

StarSense Explorer app automatically generates a list of objects currently visible. View planets, brighter nebulae and galaxies, star clusters, and double stars from the city. Or take your telescope to darker skies to view faint, deep sky objects.

Manual altazimuth mount with smooth, dual-axis slow-motion controls makes it easy to follow the on-screen arrows to your desired target. When the bullseye turns green, it's ready to view in the telescope's eyepiece.

80mm refractor with fully coated glass optics for bright, sharp views.

Includes 25mm and 10mm eyepieces, 2x Barlow Lens, StarSense smartphone dock, erect image diagonal, a red dot finderscope (in case you want to use the telescope without your phone), and a full-height tripod.

**NOTE:** The Starsense telescope uses your smartphone as a navigation device only, not to take photos.

## Description

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Celestron has reinvented the manual telescope with StarSense Explorer—the first telescope that uses your smartphone to analyze the night sky and calculate its position in real time. StarSense Explorer is ideal for beginners thanks to the app's user-friendly interface and detailed tutorials. It's like having your own personal tour guide of the night sky.

### Dock, Launch, Explore

Leave complicated star charts, imprecise planetarium apps, and computerized mounts behind. With StarSense Explorer, locating objects has never been easier, faster, or more accurate. Within minutes of setting up the telescope, you'll be navigating the sky with confidence. Simply place your phone in the unique StarSense dock and launch the StarSense Explorer app. After aligning your phone to the telescope's optics (a quick, 2-minute procedure), StarSense Explorer generates a list of celestial objects currently visible. Make your selection and arrows appear onscreen, guiding you as you to move the telescope. When the object is ready to view, the bullseye turns green.

### Smartphone Compatibility

StarSense Explorer works with most modern smartphones, including iPhone 6 and up and most devices running Android 7.1.2 or later manufactured since 2016. For a complete compatibility list, [click here](#).

### Patent-Pending StarSense Sky Recognition Technology

StarSense Explorer uses patent-pending technology and your smartphone to determine exactly where the telescope is pointed in the night sky. A Lost in Space Algorithm (LISA), like the ones satellites use in orbit to correctly reorient themselves, helps the app match star patterns it detects overhead to its internal database.

While other astronomy apps may claim that they can help you find objects, they rely exclusively on the phone's gyros and accelerometers, which aren't as accurate as LISA technology. No other app can accurately tell you when your target is visible in the eyepiece.

### Sturdy Altazimuth Mount

StarSense Explorer LT's simple altazimuth mount makes it easy to move the telescope to find your target. A slow-motion altitude adjustment knob helps you fine tune the telescope's pointing position and follow targets as they appear to drift across the night sky. It's all anchored by an adjustable, full-height tripod.

### Dazzling Views with High Quality Optics

You can expect sharp, bright views through this 80mm refractor. Fully coated glass optics provide increased light transmission, enhancing details in celestial objects. The telescope also includes a 90-degree erect image diagonal, so you can use it during the day to view birds, wildlife, landscapes, and more.

### Perfect for the City or Dark Sky Sites

Even if you live in a light polluted city location, StarSense Explorer is advanced enough to be able to pick out Jupiter, Saturn,

Venus, the Orion Nebula, double stars, and a few more of the most famous celestial objects.

But if you can take the telescope to an even slightly darker location, more objects will become visible. The entire telescope kit weighs just 9.2 pounds, so it's perfectly portable and easy to bring on your next camping trip or to a remote observing site.

### **Everything You Need to Observe Immediately**

When you unbox your new StarSense Explorer LT, you'll find:

- 80mm refractor optical tube
- StarSense dock for your smartphone
- Low powered (25mm) and high powered (10mm) eyepiece
- 2x Barlow lens to double the power of each eyepiece
- 90-degree erect image diagonal
- StarPointer red dot finderscope, perfect for using the telescope during the day or without the StarSense Explorer app
- Altazimuth mount with slow motion control rod
- Full-height tripod with an accessory tray to keep you organized

## Additional Information

### Specifications

#### OPTICAL TUBE INFO:

Optical Design	Refractor
Aperture	80mm (3.1")
Focal Length	900mm (35.43")
Focal Ratio	f/11
Focal Length of Eyepiece 1	25mm (0.98")
Magnification of Eyepiece 1	36x
Focal Length of Eyepiece 2	10mm (0.39")
Magnification of Eyepiece 2	90x
Barlow Lens	2x (1.25")
Finderscope	StarPointer™ red dot finderscope
Star Diagonal	Erect image 90° (1.25")
Optical Tube	Aluminum
Highest Useful Magnification	189x
Lowest Useful Magnification	11x
Limiting Stellar Magnitude	12
Resolution (Rayleigh)	1.74 arc seconds
Resolution (Dawes)	1.45 arc seconds
Light Gathering Power (Compared to human eye)	131x
Optical Coatings	Fully-Coated glass optics
Optical Tube Length	965mm (38")
Optical Tube Diameter	90mm (3.54")
Optical Tube Weight	5.4 lbs (2.45 kg)
Dovetail	None
<b>MOUNT INFO:</b>	
Mount Type	Manual Alt-Azimuth
Height adjustment range (includes mount and tripod)	Aluminum, 1320.8mm (52") max height
Tripod Leg Diameter	31.75mm (1.25") steel
Accessory Tray	Yes
Tripod Weight	3.8 lbs (1.72 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	9.2 lbs (4.17 kg)
Included Items	Telescope tube   Mount/tripod (preassembled)   25mm & 10mm eyepieces   Erect image diagonal   2x Barlow lens   StarPointer finderscope   Accessory tray   StarSense Explorer phone dock