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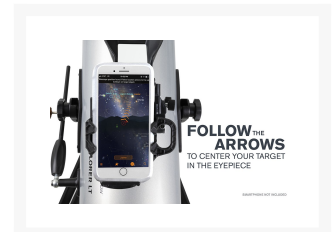
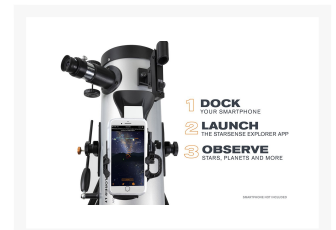
Opening Hours  
10am-5:30pm Mon-Fri  
9am-2pm Sat

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## Celestron StarSense Explorer LT 114AZ Telescope

AUD  
\$449.99

### 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.

**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**

With a large 114mm (4.5") objective lens, this telescope has enough light gathering ability to bring out detail in celestial objects. You can expect sharp, bright views of Jupiter's four Galilean moons, its cloud bands and Great Red Spot, the rings of Saturn, the trapezium in the Orion Nebula, and beautiful Pleiades Open Star Cluster.

### **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. With this 4.5" Newtonian and relatively dark skies, the Andromeda Galaxy, Hercules Open Star Cluster, and so many more are easily within your reach.

The entire telescope kit weighs just 10.4 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:

- 114mm Newtonian reflector 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
- 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	Newtonian Reflector
Aperture	114mm (4.5")
Focal Length	1000mm (39.3")
Focal Ratio	f/9
Focal Length of Eyepiece 1	25mm (0.98")
Magnification of Eyepiece 1	40x
Focal Length of Eyepiece 2	10mm (0.39")
Magnification of Eyepiece 2	100x
Barlow Lens	2x (1.25")
Finderscope	StarPointer™ red dot finderscope
Optical Tube	Steel
Highest Useful Magnification	269x
Lowest Useful Magnification	16x
Limiting Stellar Magnitude	12.8
Resolution (Rayleigh)	1.22 arc seconds
Resolution (Dawes)	1.02 arc seconds
Light Gathering Power (Compared to human eye)	265x
Secondary Mirror Obstruction	44mm (1.73")
Secondary Mirror Obstruction by Diameter	38%
Secondary Mirror Obstruction by Area	14%
Optical Coatings	Glass mirrors coated with aluminum and SiO <sub>2</sub>
Optical Tube Length	609.6mm (24")
Optical Tube Diameter	147mm (5.78")
Optical Tube Weight	6.6 lbs (2.99 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 (1.75") 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	10.4 lbs (4.71 kg)
Included Items	Telescope tube   Mount/tripod (preassembled)   25mm & 10mm eyepieces   2x Barlow lens   StarPointer finderscope   Accessory tray   StarSense Explorer phone dock