

Celestron NexStar Evolution 9.25 EdgeHD Telescope with StarSense

**AUD
\$6,449.00**

Product Images



Short Description

- Explore the Universe and control your NexStar Evolution telescope with the free Celestron SkyPortal Powered by SkySafari™ app for iOS and Android!
- Portable 9.25-inch Schmidt-Cassegrain optical tube with StarBright XLT optical coatings and Fastar compatibility
- Computerized GoTo mount with high-performance worm gears and motors for improved tracking accuracy, along with reduced gear backlash
- Rechargeable lithium-iron phosphate battery with enough power for 10 hours of continuous observing
- Improved industrial design with manual clutches and integrated carry handles, plus the added convenience of two accessory trays and a USB charge port for your smart device

Description

The NexStar Evolution is the first Schmidt-Cassegrain telescope with integrated WiFi. Leave your hand control behind and slew to all the best celestial objects with a tap of your smartphone or tablet. Connect your device to NexStar Evolution's built-in wireless network, and explore the universe with the SkyPortal Powered by SkySafari™ mobile app for iOS and Android.

Use the planetarium interface to view the night sky in real time or display a list of celestial objects currently visible based on your time and location. Our proprietary SkyAlign alignment procedure is built right into the SkyPortal mobile app, so you're ready to observe within minutes.

The most user-friendly telescope ever

Celestron engineers designed NexStar Evolution based on years of customer feedback. It offers many thoughtful design features that combine to provide you the best possible experience out under the stars.

Forget about batteries or an external power supply. For the first time ever on a consumer telescope, NexStar Evolution includes its own built-in battery. With this ultra-long life lithium-iron phosphate battery, you'll be able to enjoy stargazing marathons up to 10 hours on a single charge. You can even use NexStar Evolution's USB charge port to top off the other devices in your life that need to stay powered on during an observing session. An intelligent power management system senses when battery levels are low and goes into power-saving mode to keep your telescope running for as long as possible.

Setting up your NexStar Evolution is quick and painless with large, ergonomic handles. The same heavy-duty stainless steel tripod we use on our CPC series telescopes anchors your 9.25" telescope, providing serious stability. Manual clutches in both altitude and azimuth offer greater flexibility to manually point the telescope when powered off. Store up to 7 eyepieces in 2 accessory trays, one with an adjustable red LED illuminator.

Superior tracking fit for astroimaging

If you're interested in astroimaging, the 9.25-inch NexStar Evolution is an excellent, affordable way to get started. It's the only fork-mounted telescope in its price range that offers brass worm gears, along with improved motors. NexStar Evolution's tracking accuracy is so impressive, you can capture images of deep-sky objects like the Orion Nebula by simply attaching your DSLR camera. As you progress in the hobby of astroimaging, you can add our Pro HD Wedge to achieve longer exposures for more detailed astrophotos.

Of course, the Schmidt-Cassegrain optical system offers bright, sharp views with StarBright XLT optical coatings—a great choice for visual observers and budding astroimagers alike.

NexStar Evolution is equipped with 4 auxiliary ports--2 on top of the fork and 2 on the bottom. A classic NexStar+ hand control is included, but is not necessary when using NexStar Evolution with the mobile app. The telescope also includes a StarPointer finderscope, two 1.25" Plossl eyepieces, a 1.25" star diagonal, and an AC adapter.

Additional Information

Specifications	
Optical Design:	Schmidt-Cassegrain
Aperture:	123mm (4.85")
Focal Length:	2250mm (89")
Focal Ratio:	f10
Focal Length of Eyepiece 1:	40mm (1.57")
Magnification of Eyepiece 1:	55x
Focal Length of Eyepiece 2:	13mm (0.51")
Magnification of Eyepiece 2:	180x
Finderscope:	Red Dot FinderScope
Star Diagonal:	1.25" Star Diagonal
Optical Tube:	Aluminum
Highest Useful Magnification:	555x
Lowest Useful Magnification:	34x
Limiting Stellar Magnitude:	14.4
Resolution (Rayleigh):	0.59 arc seconds
Resolution (Down):	0.49 arc seconds
Light Gathering Power (Compared to human eye):	127x
Secondary Mirror Obstruction:	95mm (3.35")
Secondary Mirror Obstruction by Diameter:	38%
Secondary Mirror Obstruction by Area:	1.7%
Optical Coatings:	StarBright XLT
Optical Tube Length:	550mm (22")
Optical Tube Diameter:	273.8mm (10.7")
Optical Tube Weight:	20 lbs (9.07 kg)
Dovertail:	CG-5 Dovertail Bar
MOUNT INFO	
Mount Type:	Computerized Altitude-Azimuth Single Fork Arm
Instrument load capacity:	25 lbs (11 kg)
Height adjustment range (includes mount and tripod):	1244.6mm - 1651mm (49° - 65°)
Tripod Leg Diameter:	50.8mm (2") Stainless Steel
Mount Head Weight:	5.8 lbs (7 kg)
Accessory Tray:	Yes
Tripod Weight:	20.6 lbs (12.06 kg)
Slow Speeds:	0.1°/sec speeds - max speed 4°/second
Tracking Rates:	Sidereal, Solar and Lunar
Tracking Modes:	All-Az, EQ North and EQ South
GPS:	N/A
Dovertail Compatibility:	CG-5 saddle plate
Number of Auxiliary Ports:	4 AUX Ports (Hand Control can use any of the AUX Ports)
Autoguide Port:	No
USB Port:	Yes, Hand Control input and Mount output
Power Requirements:	Internal 9.6V, 4 AA lithium iron phosphate battery (LiFePO4)
Motor Drive:	DC servo motors
Alignment Procedures:	SkyAlign, 1 Star Align, 2 Star Align, Auto 2 Star Align, Solar System Align, Quick Align, Læd Alignment, EQ North / EQ South Alignment (EQ align requires an equatorial wedge)
Periodic Error Correction:	No
Computerized Hand Control:	2 line x 18 character backlit Liquid Crystal Display, 19 LED backlit buttons, USB 2.0 Port for PC connection
NexStar Database:	Over 40,000 including 220 of the best deep sky and solar system objects
Software:	Celestron Starry Night Special Edition Software and SkyPortal App
Total Kit Weight:	42.6 lbs (19.4 kg)
Optical tube:	Single Fork Arm Mount and Tripod
Mount:	Computerized Altitude-Azimuth
Built-in WiFi:	Yes
Power:	Internal Lithium-Ion battery
Included Items:	Hand Control Eyepiece Red dot finderscope Tripod 2x Barlow 4 plug AC adapter
Solar Warning	<p>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.</p> <p>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.</p> <p>Never leave your optic unattended. Make sure an adult who is familiar with the correct operating procedures is with your optic at all times, especially when children are present.</p>