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Opening Hours

10am-5:30pm Mon-Fri
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Celestron NexStar Evolution 8 Telescope

AUD
\$4,049.00

Product Images



Short Description

- Explore the Universe and control your NexStar Evolution telescope with the free Celestron SkyPortal app for iOS and Android!
- Compact, portable 8-inch Schmidt-Cassegrain optical tube with StarBright XLT optical coatings and Fastar compatibility
- Computerized GoTo mount with high-performance brass worm gears and motors for improved tracking accuracy, along with reduced gear backlash
- Rechargeable lithium-iron 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

NOTE: The recommended solar filter for this scope for solar observing is the Astrozap Glass Solar Filter (Product No. 124451)

Description

"THIS ROBOTIC WIFI TELESCOPE IS THE COOLEST APP-CESSORY IN THE GALAXY"

-WIRED.COM

"5-STAR OVERALL RATING"

-BBC SKY AT NIGHT MAGAZINE

Celestron's signature telescopes reach a new level with NexStar Evolution 8, 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 Celestron 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 Celestron 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 all-metal tripod features a metal accessory tray with indentations for storing and carrying the tripod. During setup, leg etchings help you achieve a level, uniform height for your telescope. 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 8-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 HD Pro Wedge to achieve longer exposures for more detailed astrophotos. NexStar Evolution compatible with the wedge when used with the CPC tripod (sold separately).

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.

Specifications	Optical Tube Info:	
	Optical Design	Schmidt Cassegrain
	Aperture	203.2 mm
	Focal Length	2032 mm
	Focal Ratio	10
	Focal Length of Eyepiece 1	40 mm
	Focal Length of Eyepiece 2	13 mm
	Magnification of Eyepiece 1	51x
	Magnification of Eyepiece 2	156x
	Finderscope	StarPointer
	Star Diagonal	1.25"
	Mount Info:	
	Mount Type	Single Fork Arm Altazimuth
	Tripod	Stainless Steel
	Power Requirements	Internal battery included
	Highest Useful Magnification	480x
	Lowest Useful Magnification	29x
	Limiting Stellar Magnitude	14
	Resolution (Rayleigh)	0.69 arc seconds
	Resolution (Dawes)	0.57 arc seconds
	Light Gathering Power (Compared to human eye)	843x
	Secondary Mirror Obstruction	2.5 in (64 mm)
	Secondary Mirror Obstruction by Area	9.77%
	Optical Coatings	StarBright XLT
	Optical Tube Length	17 in
	Total Telescope Kit Weight	40.6 lbs
	Max Slew Speed	4 degrees per second
	Tracking Rates	Sidereal, solar and lunar
	Alignment Procedures	SkyAlign, 3-Star Align, Solar System Align
	Communication Ports	1 hand control and 3 aux ports for optional accessories
	App Database	Over 120,000 including 220 of the best deep sky and solar system objects
	USB Charge Port	Yes