

## Celestron Advanced VX with C8 SCT

**AUD**  
**\$4,249.00**

### Product Images



### Short Description

- 8" (203.2 mm) f/10 Schmidt-Cassegrain includes StarBright XLT coatings for better light transmission
- 84% more light gathering than a 6" telescope.
- 6x30 optical finderscope for locating alignment stars

- Integer gear ratios and permanently programmable Periodic Error Correction eliminates recurring track errors from the worm gear.
- Autoguider port for long exposure imaging
- New motors offer improved tracking performance & provide more power to overcome load imbalances
- Updated industrial design offers more rigidity, less flexure and improved aesthetics
- New design allows viewing or imaging across the meridian without interference from the motors housings
- Improved latitude range. Can be used between 7 – 77° latitude.
- NexStar+ hand control offers multiple language programming (English, French, Italian, German, Spanish)

## Description

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The iconic 8-inch Schmidt-Cassegrain has been known for decades as Celestron's most beloved telescope. Now beginner to intermediate astroimagers can have their own "C-8" at an extremely affordable price. This classic design has been upgraded with our StarBright XLT coatings for maximum light transmission. Combined with our fully featured Advanced VX mount, you have a setup that is ready for both imaging and visual observing.

### About the Mount

The new Advanced VX mount was specifically designed to provide optimum imaging performance for smaller telescopes. Now your smaller telescope can take advantage of All-Star Polar Alignment and autoguider support. You'll be able to track through long exposures using permanently programmable periodic error correction. Image across the meridian without doing a meridian flip, so you can seamlessly image the best part of night sky. Advanced VX features significantly larger base castings than our previous design, improving stability under heavier loads. Improved motors offer more torque and can handle slight load imbalances with ease.

Specifications

<b>OPTICAL TUBE INFO:</b>	
Optical Design	Schmidt-Cassegrain
Aperture	203.2mm (8")
Focal Length	2032mm (80")
Focal Ratio	f/10
Focal Length of Eyepiece 1	25mm (.8")
Magnification of Eyepiece 1	102x
Finderscope	6x30
Star Diagonal	1.25" Star Diagonal
Optical Tube	Aluminum
Highest Useful Magnification	480x
Lowest Useful Magnification	29x
Limiting Stellar Magnitude	14
Resolution (Rayleigh)	.69 arc seconds
Resolution (Dawes)	.57 arc seconds
Light Gathering Power (Compared to human eye)	843x
Secondary Mirror Obstruction	64mm (2.5")
Secondary Mirror Obstruction by Diameter	31%
Secondary Mirror Obstruction by Area	9.77%
Optical Coatings	StarBright XLT
Optical Tube Length	432mm (17")
Optical Tube Diameter	238mm (9.37")
Optical Tube Weight	12.5 lbs (5.9 kg)
Dovetail	Vixen/CG-5 Dovetail bar
<b>MOUNT INFO:</b>	
Mount Type	Computerized Equatorial
Instrument load capacity	30 lbs (13.6 kg)
Height adjustment range (includes mount and tripod)	1118mm - 1626mm (44" - 64")
Tripod Leg Diameter	50.8mm (2") Stainless Steel
Latitude adjustment range	7° - 77°
Mount Head Weight	17 lbs (7.71 kg)
Accessory Tray	Yes
Tripod Weight	18 lbs (8.16 kg)
Weight of Counterweights	1 x 12 lbs
Slew Speeds	9 slew speeds - max speed 4"/second
Tracking Rates	Sidereal, Solar and Lunar
Tracking Modes	EQ North & EQ South
GPS	N/A
Dovetail Compatibility	Vixen/CG-5 saddle plate
Number of Auxiliary ports	3 Aux ports (1 hand control and 2 AUX ports for optional accessories)
Autoguide port	Yes
USB Port	Yes, input on Hand Control
Power Requirements	12V DC 3.5A (tip positive)
Motor Drive	DC servo motors
Alignment Procedures	2 Star Align, 1-Star Align, Solar System Align, Last Alignment, Quick Align
Periodic Error Correction	Yes
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	40,000+ objects, 100 user defined programmable objects. Enhanced information on over 200 objects
Software	Celestron's Starry Night Special Edition Software, SkyPortal App
Total Kit Weight	59.5 lbs (27 kg)
Included Items	Advanced VX Equatorial Head   Tripod   Accessory Tray   1 x 12 lbs counterweight   NexStar+ Hand Control   DC Power Cable (Item# 18769)   Hand Control Holder