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Celestron Advanced VX 6 Inch Schmidt-Cassegrain Telescope

AUD
\$3,499.00

Product Images



Short Description

- 6" (150mm) f/10 Schmidt-Cassegrain includes StarBright XLT coatings for better light transmission
- The most compact and portable of Celestron's German equatorial mounts offers the same rigidity as our larger mounts with minimal flexure and an improved industrial design
- Holds a maximum instrument capacity of 30 lb
- Every feature an astroimager wants: PEC, an autoguider port, the ability to image across the meridian, and more
- Dual saddle plate is compatible with narrow CG-5 dovetails and wider CGE dovetail. Also compatible with Vixen format dovetails longer than 100mm, but not compatible with Losmandy D format plates.
- Latitude range allows the mount to perform between 7° and 77° latitude
- Accessories include a 25mm eyepiece, 1.25" star diagonal and 6x30 finderscope

Description

The Advanced VX (AVX) sets a new standard in mid-level telescopes, providing many of the features found on Celestron's most sophisticated German equatorial mounts at an extremely affordable price. The Advanced VX 6" Schmidt Cassegrain telescope is ideal for astroimagers and visual observers looking for a telescope that is much more portable than the reflector or refractor. The 6" Schmidt-Cassegrain optical tube offers 40% more light gathering ability than a 5" telescope. The Schmidt-Cassegrain design also eliminates chromatic aberration, making it a good choice for entry-level astroimaging. The Advanced VX mount is designed to provide superior performance while taking advantage of Celestron's most advanced technologies: All-Star Polar Alignment, Celestron PWI telescope control software, SkyAlign, and permanently programmable periodic error correction (PPEC).

If you're an experienced imager, you'll love taking this portable mount to a dark sky site and enjoying all the conveniences of a larger observatory mount. Or, if you're new to imaging, Advanced VX will help you get started with the hobby and keep up with your needs for years to come.

Computerized German equatorial mount

The Advanced VX is the smallest of Celestron's German equatorial mounts. The computerized GoTo capability automatically tracks objects as they move across the night sky. The Advanced VX mount includes ports for a hand control, an autoguider, and 2 AUX ports for optional accessories. The NexStar+ hand control gives you instant access to all the functions your mount has to offer. With automatic slewing and menu descriptions, any level of astronomer can master this mount in just a few observing sessions. The Advanced VX also has an impressive tripod for its class with a 2" diameter steel tripod legs providing an extra-wide stance for improved stability.

Payload capacity

The payload capacity for the Advanced VX is 30 lb. It offers a sturdy platform for any of the Advanced VX optical tubes, even when paired with optional accessories like StarSense AutoAlign, Focus Motor, a finderscope, and a camera. Celestron's payload capacity does not include the weight of the counterweights.

Dual saddle plate

As of early 2019, Advanced VX mounts now include a new dual saddle plate that accommodates both CG-5 and CGE-style dovetail. Switching between the two saddle plates is as simple as moving the hand knobs into a separate set of holes. Now you can use an Advanced VX mount with virtually any optical tube within its weight limit. Compatible with Vixen format dovetails 100mm or longer, not compatible with Losmandy D format plates (regardless of plate manufacturer).

Celestron PWI Telescope Control Software - Your Ultimate Astronomy Software Suite

All current Celestron computerized telescopes include Celestron PWI (CPWI), the most advanced astronomy software suite provided with any consumer-grade telescope. Celestron's experts co-developed CPWI with the engineers at PlaneWave Instruments. The result is an all-in-one solution offering you many of the same features used on PlaneWave's observatory-class telescopes.

- Graphical planetarium interface with PointXP advanced mount modelling allows you to add 100+ points to your alignment model for the most accurate pointing and tracking possible
- Ideal for remote observatory setups: save and re-load your alignment and park your scope
- Provides a complete ASCOM telescope interface to allow control of the telescope from third party software applications

Starry Night Software

Included with your purchase is a free download of Celestron's Starry Night Special Edition Software. This advanced software by Simulation Curriculum offers detailed information about celestial objects and helps you plan your next observing or imaging session. The Special Edition software also allows you to control your telescope via computer.

Specifications

OPTICAL TUBE INFO:	
Optical Design	Schmidt-Cassegrain
Aperture	150mm (6")
Focal Length	1500mm (59')
Focal Ratio	f/10
Focal Length of Eyepiece 1	25mm (.98')
Magnification of Eyepiece 1	60x
Finderscope	6x30
Star Diagonal	1.25" Star Diagonal
Optical Tube	Aluminum
Highest Useful Magnification	354x
Lowest Useful Magnification	21x
Limiting Stellar Magnitude	13.4
Resolution (Rayleigh)	.93 arc seconds
Resolution (Dawes)	.77 arc seconds
Light Gathering Power (Compared to human eye)	459x
Secondary Mirror Obstruction	56mm (2.2")
Secondary Mirror Obstruction by Diameter	37%
Secondary Mirror Obstruction by Area	14%
Optical Coatings	StarBright XLT
Optical Tube Length	406mm (16')
Optical Tube Diameter	184.15mm (7.25")
Optical Tube Weight	10 lbs (4.54 kg)
Dovetail	CG-5 Dovetail bar
MOUNT INFO:	
Mount Type	Computerized Equatorial
Instrument load capacity	39 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	Dual saddle plates (CG-5 and CGE saddle)
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	57 lbs (25.85 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 Holster