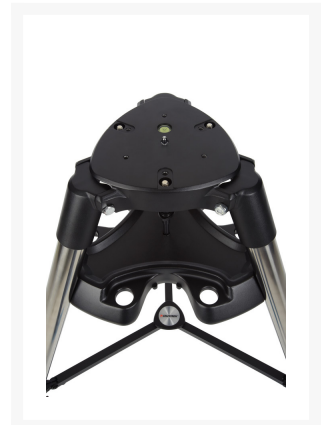


Celestron CPC 800 Deluxe EdgeHD Computerized Telescope

**AUD
\$5,099.00**

Product Images



Short Description

- Celestron's top-performing altazimuth telescope system, the CPC Deluxe HD is a favorite among experienced amateur astronomers and the preferred telescope of Stephen Hawking
- 8-inch EdgeHD optical tube provides stunning views and sharp astroimages free of visual defects
- NexStar+ hand control and internal GPS guides users through the simple SkyAlign setup and features a 40,000+ object database
- Sturdy dual fork arm mount with upgraded gears and motors anchors the telescope for superior tracking and pointing accuracy
- Ready for serious astroimaging, CPC Deluxe HD features All-Star Polar Alignment and Permanently Programmable Periodic Error Correction when equipped with the HD Pro Wedge

Description

Combine top-of-the-line performance with unlimited versatility and you have the CPC Deluxe 800HD. From a casual night of backyard observing to serious astroimaging at a dark sky location, the CPC Deluxe HD is a customer favorite for any application. The CPC/CPC Deluxe family is also the telescope of choice for NASA (a CPC 925 is currently deployed aboard the International Space Station) and astrophysicist Stephen Hawking, who used a CPC Deluxe 1100HD at his home in Cambridge, UK.

Celestron's Best Optics

What makes the view through a CPC Deluxe HD unforgettable? It all starts with our proprietary EdgeHD optical system. This unique design corrects for both coma and field curvature, providing aberration-free images and pinpoint stars across the largest imaging sensors and all the way to the edge of the widest eyepieces.

Read more about how EdgeHD outperforms competing optical systems by downloading the EdgeHD whitepaper in the Support and Download tab.

All EdgeHD systems include our StarBright XLT coatings on all optical surfaces for brighter images and increased light transmission. Plus, every EdgeHD optical tube is Fastar compatible. Simply remove the secondary mirror and attach a third party lens assembly and you're ready to image the night sky at ultra-fast $f/2$.

Ultimate Versatility

Customers and reviewers have hailed the CPC Deluxe an all-around top performer, equally well suited to a star party or a university astronomy course. The beefy dual fork arm mount anchors the telescope for ultra-precise tracking, but weighs just 43 lbs and includes rugged carrying handles to make setup quick and easy.

As soon as you turn on your CPC Deluxe HD, you'll be guided through our simple SkyAlign procedure. The telescope walks you through centering any three bright objects in the eyepiece. From there, it's ready to locate and track more than 40,000 celestial objects.

To customize your experience under the stars, CPC Deluxe HD is compatible with all of Celestron's latest accessories. Add StarSense AutoAlign and your CPC will align itself in under 3 minutes. Or add the SkyQ Link 2 WiFi Module and control your telescope using a smartphone or tablet.

With this much versatility, the CPC Deluxe HD is a telescope that will serve you well for years to come, no matter what you choose to do with the hobby—including astroimaging.

Built with Imaging in Mind

Most altazimuth telescopes are designed primarily for visual use, but not the CPC Deluxe HD. It offers all the same high-end features you'll find on our German equatorial mounts. Out of the box, your CPC Deluxe can track accurately for up to 30 seconds without adding a wedge, thanks to a reengineered drive train with a 6-inch brass gear, stainless steel worm gear, and both steel and nylon ball bearings.

If you'll be doing longer exposure astrophotography, adding the HD Pro Wedge turns this telescope into an astroimager's dream

setup. With a wedge, you can take advantage of the All Star Polar Alignment procedure, which has you polar aligned in just minutes. You can also train your mount to be even more accurate with Permanently Programmable Periodic Error Correction. Finally, your CPC tracks smoothly through the meridian without doing a meridian flip, enabling you to capture objects in the best part of the night sky.

Specifications	OPTICAL TUBE INFO:	
	Optical Design	EdgeHD
	Aperture	203.2mm (8")
	Focal Length	2032mm (80")
	Focal Ratio	f/10
	Focal Length of Eyepiece 1	40mm (1.57")
	Magnification of Eyepiece 1	51x
	Finderscope	50mm Finderscope with quick release bracket
	Star Diagonal	1.25" Star Diagonal
	Optical Tube	Aluminum
	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	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	42 lbs (19.1 kg) with mount
	Dovetail	None
	MOUNT INFO:	
	Mount Type	Computerized Altitude-Azimuth Dual Fork Arm
	Height adjustment range (includes mount and tripod)	1295.4mm - 1422.4mm (51" - 66")
	Tripod leg diameter	50.8mm (2") Stainless Steel
	Mount Head Weight	42 lbs (19.1 kg) with optical tube
	Accessory Tray	Yes
	Tripod Weight	19 lbs (8.6 kg)
	Slew Speed	9 slew speeds - max speed 5"/second
	Tracking Rates	Sidereal, Solar and Lunar
	Tracking Modes	Altazimuth, EQ North and EQ South
	GPS	Internal 16 channel
	Dovetail Compatibility	none
	Number of Auxiliary ports	2 Aux ports (Hand Control can use any of the Aux ports)
	Autoguide port	Yes
	USB Port	Yes, on hand control
	Power Requirements	12 VDC-1.5A (Tip positive)
	Motor Drive	DC servo motors
	Alignment Procedures	Sky Align, Auto Two-Star Align, Two-Star Align, Solar System Align, EQ North Align & EQ South 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 Telescope Kit Weight	61 lbs (27.6 kg)
	Included Items	Mount/OTA Tripod Accessory Tray 40mm Eyepiece 1.25" Star Diagonal 50mm 9x50 Finderscope with Bracket Instruction Manual