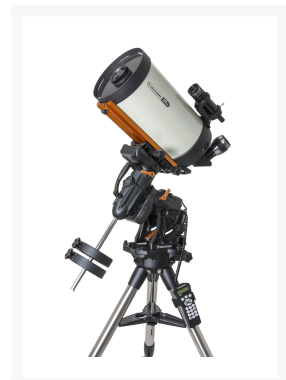


Celestron CGX Mount and 925 EdgeHD Telescope

**AUD
\$9,749.00**

Product Images



Short Description

- 9.25" HD Optical Tube Assembly
- CGX EQ Mount and Tripod
- Celestron's premium StarBright XLT coatings provide maximum light transmission
- A 9x50 finderscope, 2" mirror diagonal for more comfortable viewing, and wide-angle 23 mm Luminos 2" eyepiece are all included

For customers wishing to fit solar filters, the outside OTA diameter is 272 mm.

NOTE: For solar viewing the Astrozap Glass Solar filter (Product No. 124446) is recommended.

Description

CGX 925 HD combines Celestron's all-new state of the art CGX computerized equatorial mount with its acclaimed EdgeHD optical system. With over 9 inches of aperture and our premium StarBright XLT coatings, the CGX 925 HD gives you over 1000 times the light gathering power than the unaided eye. Designed to give diffraction limited performance and offer more resolution than the 800 with less weight than the 1100, the CGX 925 HD is a premier astroimaging telescope made for remote operation.

See the Universe in HD

EdgeHD is an aplanatic, flat field Schmidt-Cassegrain telescope that produces aberration-free images across a wide visual and photographic field of view. The optical system was designed to reduce more than just off-axis star coma; it also provides an astrograph-quality flat focal plane all the way to the edge of the field of view.

True Astrograph Quality

Many optical designs that advertise themselves as "astrographs" actually only produce pinpoint stars across a curved focal plane. While this may be acceptable for some visual observing, stars will appear out of focus at the edge when used with the flat chip sensor of a digital camera. EdgeHD optics produce a focal plane more than three-times flatter than a standard Schmidt-Cassegrain telescope and dramatically flatter than competing coma-free designs. This guarantees you visibly sharp stars across some of the largest CCD chips available today. Learn more about EdgeHD technology.

Improved Performance

Superior edge performance not only creates rounder, more pleasing stars, but actually improves the resolution and limiting magnitude when compared to telescopes of equal aperture. With Celestron's StarBright XLT optical coatings on every surface, EdgeHD optics gives you maximum light throughput across the widest visual and photographic spectrum.

Mechanical Features

In addition to EdgeHD's optimized optical design, the telescope tube has been redesigned to make sure you get the most from your optics each and every night.

- **Mirror clutches** - Flexible tension clutches hold the mirror in place and reduce image shift when taking long exposure astro-images. Once focused, the flexible rods allow the mirror to be held in place without putting any force or pressure on the mirror assembly, keeping the image centered in the eyepiece (or on the sensor).
- **Tube vents** - Cooling vents located on the rear cell allow hot air to be released from behind the primary mirror. Each vent has an integrated 95-micron micromesh filter guaranteed to let warm air out without letting dust in.
- **Fastar versatility** - EdgeHD is the most versatile imaging telescope available today. At its native f/10, you can achieve the image scale necessary to capture the smallest of deep sky objects. A Barlow gives you added power for high-resolution planetary, lunar and solar imaging. All EdgeHD optical tubes are Fastar-compatible, allowing the secondary mirror to be removed and replaced with a third party lens accessory for ultra-fast f/2 wide field imaging.

Individually Tested

Every EdgeHD that ships has been tested not only for the surface quality of each optical component, but also with a camera and artificial star to ensure the imaging system meets our rigid quality assurance. This "final acceptance test" confirms the EdgeHD will perform in the field and deliver high-quality astroimages.

CGX Mount

Celestron's workhorse CGEM mount lineup has been the German Equatorial backbone for telescopes ranging from 6 to 11 inches of aperture. Since that time, many more astro-imagers and planetarium controlled setups have emerged as backyard telescope technology has evolved. Celestron's engineering team applied their years of experience designing German Equatorial mounts to the all-new CGX EQ, a culmination of all the advancements made to our technologies, value, and ease-of-use.

The new CGX was designed to better support your telescope for both visual and astro-imaging pursuits. Key design goals included a lower profile EQ head, which provides a more compact and therefore more stable setup; a better drive system; remote operation-friendly with home and limit optical sensors; easier polar alignment adjustments; and better cable management. In addition to that, we've made mechanical and ergonomic improvements throughout to make the mount sturdier, easier to use, and transport. The CGX is our new Equatorial backbone to support a wide range of telescopes.

HD Features

- Experience our best optical performance with EdgeHD's flat-field and coma-free optics for pinpoint stars all the way to the edge of today's largest imaging sensors and widest eyepieces
- Aluminum optical tube with tube vents featuring an integrated 95-micron mesh filter allows hot air to be released from behind the primary mirror. Mirror support knobs hold the mirror in place and reduce image shift during imaging
- Versatile design accommodates 2 focal ratios: native f/10 or ultra-fast f/2 imaging with a removable secondary mirror and third-party accessories

CGX Mount and Tripod Features

- All-new design. Sturdier and more rigid with quicker dampening time
- Increased load capacity to 55 lbs.
- Improved motors provide more torque, better slewing and tracking under heavy loads
- Heavy Duty belt-drive system minimizes backlash while providing smooth motor operation under heavy loads



Smoother Belt-Drive System

- Spring-loaded brass worm wheel and stainless steel worm gear reduce friction and provide optimum gear mesh
- Internal cabling for worry-free remote operation. Power input and accessory ports remain stationary while the mount slews to avoid snags
- Internal hard stops for both axes prevents cable tension and tripod strike



Mechanical Hard Stops

- Internal optical sensors on both axes for simple and safe remote operation



Home and Limit Sensors

- Home sensors allow the mount to always start in the index position regardless of orientation before a power reset
- Limit sensors automatically shut off slewing or tracking before reaching the hard stop fail safe
- Brand new control software developed in conjunction with PlaneWave Instruments for professional level control operation and imaging
- Software includes multi-point mount modeling for extremely precise pointing accuracy and many more additional features for remote astroimaging
- Wider tripod stance for improved stability
- Adjustable EQ head position to optimize center of gravity over the tripod and fully utilize the increased 3°-65° latitude range
- Dual-fit CG-5/Vixen and CGE/Losmandy dovetail saddle



Dual Dovetail Saddle

Improved tripod includes:

- 2" steel legs with height index marks for quick leveling
- "Jack of all trays" can hold three 1.25" eyepieces, two 2" eyepieces, your smartphone, or other accessories
- +20° of additional tracking past the meridian on either side
- Tripod legs can be collapsed with accessory tray installed for faster setup and transport



Tripod

Improved ergonomics:

- Two handles for easy pickup and transport



Ergonomic Carry Handles

- All-new ergonomically designed dovetail clamping knobs
- Innovative and improved polar alignment adjustment system



Polar Alignment Adjustment

- All-new ergonomic latitude adjuster for smooth and easy adjustment under full loads
- Optional add-on polar axis finderscope

Electronics

- All-new NexStar+ hand control with USB port
- Two AUX accessory ports to support wireless/WiFi alignment and operation with StarSense AutoAlign and SkyPortal WiFi Module accessories (sold separately)
- USB 2.0 port, used to connect directly to PC with included software
- Autoguider port
- PPEC ready
- Threaded 12VDC power input barrel connector
- Internal Real Time Clock (keeps time and site information saved)

Specifications	OPTICAL TUBE INFO:	
	Optical Design	EdgeHD
	Aperture	235mm (9.25")
	Focal Length	2350mm (93")
	Focal Ratio	f/10
	Focal Length of Eyepiece 1	23mm (0.91")
	Magnification of Eyepiece 1	102x
	Finderscope	9x50
	Star Diagonal	2" with 1.25" adapter
	Optical Tube	Aluminum
	Highest Useful Magnification	555x
	Lowest Useful Magnification	34x
	Limiting Stellar Magnitude	14.4
	Resolution (Rayleigh)	0.59 arc seconds
	Resolution (Dawes)	0.49 arc seconds
	Light Gathering Power (Compared to human eye)	1127x
	Secondary Mirror Obstruction	85mm (3.35")
	Secondary Mirror Obstruction by Diameter	36%
	Secondary Mirror Obstruction by Area	13%
	Optical Coatings	StarBright XLT
	Optical Tube Length	559mm (22")
	Optical Tube Diameter	271.78mm (10.7")
	Optical Tube Weight	21 lbs (9.53 kg)
	Dovetail	CGE Dovetail Bar
	MOUNT INFO:	
	Mount Type	Computerized Equatorial
	Instrument load capacity	55 lbs (25 kg)
	Height adjustment range (includes mount and tripod)	1200.15mm - 1968.5mm (47.25" - 77.5")
	Tripod Leg Diameter	50.8mm (2") Steel tripod with graduated markings on lower section
	Latitude adjustment range	3° - 65°
	Mount Head Weight	44 lbs (20 kg)
	Accessory Tray	Yes
	Tripod Weight	19.2 lbs (8.7 kg)
	Weight of Counterweights	2 x 11 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 (Vixen and CGE saddle)
	Number of Auxiliary ports	2 Aux ports (Hand Control can use either Aux port)
	Autoguide port	Yes
	USB Port	Yes, input for Mount and Hand Control
	Power Requirements	12V DC, 4 amps
	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	PWI Telescope Control Software, Celestron's Starry Night Special Edition Software, SkyPortal App
	Total Kit Weight	106.2 lbs (48.17 kg)
	Included Items	CGX Equatorial Head CGX Tripod Accessory Tray 2 x 11 lbs counterweights NexStar+ Hand Control 8mm Allen Wrench 12V DC Power Cable Hand Control Holster