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Celestron CGEM II 925 Telescope

AUD
\$7,439.00

Product Images



Short Description

- 9.25" Schmidt-Cassegrain optical tube assembly
- Celestron's premium StarBright XLT coatings
- 40 lbs payload capacity
- Dual-fit Vixen/CG-5 and Losmandy/CGE dovetail saddle
- 2" steel legs with height index marks for quick leveling
- Internal cabling throughout for worry-free remote operation
- Able to track past the meridian allowing seamless imaging
- USB hand control to control the telescope via a personal computer

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

The CGEM II 925 Schmidt-Cassegrain Telescope features Celestron's premium StarBright XLT coated optics and the newly redesigned CGEM II computerized equatorial mount. The CGEM II 925 offers the middle ground for those looking to combine portability with high resolution. This telescope is especially at home as a solid platform for long exposure photography with optional CCD cameras or photographic equipment. With over 925 inches of aperture and our premium StarBright XLT coatings, the CGEM II 925 gives you over 1000 times the light gathering power than the unaided eye.

A fresh update to the venerable CGEM mount, the CGEM II has a fresh, attractive, bold appearance and is capable of carrying Celestron's higher-end SCT optical tubes (up to 11") securely and vibration free, which is ideal for both imaging and visual observing. Capable of holding 40 lbs. of payload and slewing at 5° per second, you will be able to instantly point to any of the celestial objects in the database.

ERGONOMIC DESIGN

CGEM II was designed to be ergonomically friendly with large Altitude and Azimuth adjustment knobs for quick and easy polar alignment adjustment. The internal RA and DEC motor wiring provides a clean look and an easy and trouble free set up.

INNOVATION

The CGEM II series features Celestron's innovative Polar alignment procedure called All-Star™. All-Star allows users to choose any bright star, while the software calculates and assists with polar alignment. Another great feature of the CGEM II sure to please astroimagers, is the Permanent Periodic Error Correction (PEC) which will allow users to train out the worm gears periodic errors, while the mount retains the PEC recordings.

PERFORMANCE

For objects near the Meridian (imaginary line passing from North to South), the CGEM II will track well past the Meridian for uninterrupted imaging through the most ideal part of the sky. The CGEM II mount has a robust database with over 40,000 objects, 100 user defined programmable objects and enhanced information on over 200 objects. Celestron's CGEM II mount is the perfect fit between the Advanced Series and CGE Series. Offering the portability of the Advanced Series and the precision of the CGE.

OPTICAL TUBE FEATURES

- 9.25" Schmidt-Cassegrain Optical Tube Assembly
- Celestron's premium StarBright XLT coatings
- 2350 mm focal length (f/10)
- 25 mm eyepiece included (94x)
- Visual back allows for use with 1.25" accessories
- 6x30 finderscope to help accurately center alignment objects
- Star diagonal provides more comfortable viewing position when observing objects that are high in the sky

- Includes large CGE style dovetail mounting bar

COMPUTERIZED MOUNT FEATURES

- 40 lbs payload capacity
- Dual-fit Vixen/CG-5 and Losmandy/CGE dovetail saddle
- 2" steel legs with height index marks for quick leveling
- USB 2.0 port on hand control for direct links to a PC via ASCOM supported software
- 40,000 object database with over 100 user-definable objects and expanded information on over 200 objects
- Internal cabling throughout for worry-free remote operation
- Low cog DC Servo motor with integrated optical encoders offer smooth, quiet operation
- Able to track past the meridian allowing seamless imaging
- Permanent periodic error corrections allow users to train out the worm gears periodic errors once, while the mount retains the PEC recordings
- Software Features include: Mount Calibration, Database Filter Limits, Hibernate, five Alignment Procedures, and user-defined slew limits
- Built-in polar alignment program to polar align on any star in the sky
- Longer clutch levers to make tightening and loosening of clutches easier
- Custom database lists of all the most famous deep-sky objects by name and catalog number
- Solar System alignment method allows to view the moon and planets during the day
- Custom Rate 9 feature allows to set maximum slew rate
- Tandem mode allows to star align the mount even when positioned for tandem scope use
- USB hand control to control the telescope via a personal computer
- Includes NexRemote telescope control software, for advanced control of telescope via computer
- Precision machined 40 mm diameter steel Polar shafts supported by multiple tapered roller bearings and ball bearings
- GPS-compatible with optional SkySync GPS Accessory

Specifications

OPTICAL TUBE INFO:	
Optical Design	Schmidt-Cassegrain
Aperture	234.95mm (9.25")
Focal Length	2350mm (93")
Focal Ratio	f/10
Focal Length of Eyepiece 1	25mm (0.98")
Magnification of Eyepiece 1	94x
Finderscope	6x30
Star Diagonal	1.25" Star Diagonal
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	271.8mm (10.7")
Optical Tube Weight	20 lbs (9.07kg)
Dovetail	CGE Dovetail bar
MOUNT INFO:	
Mount Type	Computerized Equatorial
Instrument load capacity	40 lbs (18 kg)
Height adjustment range (includes mount and tripod)	1346mm - 1651mm (53" - 65")
Tripod Leg Diameter	50.8mm (2") Steel tripod with graduated markings on lower section
Latitude adjustment range	15° - 70°
Mount Head Weight	40 lbs (18.14 kg)
Accessory Tray	Yes
Tripod Weight	20 lbs (9 kg)
Weight of Counterweights	1 x 17 lbs 1 x 11 lbs
Slew Speeds	9 slew speeds - max speed 4.5"/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 (1x Hand control port and 1x AUX Port for optional accessories)
Autoguide port	Yes
USB Port	Yes, Input on Hand Control
Power Requirements	12V DC, 3.2 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	Celestron's Starry Night Special Edition Software, SkyPortal App
Total Kit Weight	98 lbs (44.4 kg)
Included Items	CGEM II Equatorial Head Tripod Accessory Tray 1 x 17 lbs and 1 x 11 lbs counterweights NexStar+ Hand Control DC Power Cable (Item#18769) Hand Control Holder