



Advanced Coma-Free Telescopes

All the cutting-edge technology that has made the Meade name synonymous with innovation has gone into the design of the LX200-ACF, the best all-purpose high-performance telescope system available.

The Advanced Coma-Free optical system has brought the highest level of optical performance well within the reach of most amateurs. With the Ultra-High Transmission Coatings (standard on all LX200-ACF systems), you have the ultimate in premium optics.

Optional Zero Image-Shift Microfocuser for exacting electronic control of focus (optional for the 8", 10", 12", 14" and standard for the 16" model). Primary Mirror Lock to eliminate focus and mirror shift during long exposures. Large high-quality worm-gear drives in both axes provide smooth movements with low periodic error that are critical for long exposure astrophotography.

The AutoStar II handbox controller puts over 140,000 objects at your fingertips and the fastest GoTo performance available. You can even control the system from an external computer with supplied or third party software.

With its unbelievable list of features and capabilities, the advanced amateur or researcher could not be looking for a better telescope system than the LX200-ACF.

The LX200-ACF telescopes are among the most versatile astronomical systems available. Many are used for research by professional astronomers because of their top-level performance and their ability to handle almost any type of measuring or imaging equipment.

At the same time, because the LX200-ACF is light weight, compact and easy to use, it is the telescope of choice for thousands of amateur astronomers around the world. No matter what your goals are in the field of astronomy, an LX200-ACF telescope will allow you to achieve them.

FEATURES

- **Advanced Coma-Free Optical System with UHTC™**

Professional quality performance with the sharpest, brightest images for their size.

- **Ultra-Stable Fork Mount, Tripod and Extra Features**

Provide the stability required for advanced applications. Combined with the precision worm-gear drives, Zero Image-Shift focuser, and primary mirror lock, this is the ultimate system for almost any astronomical task.

- **Computer Control with AutoStar II**

Gives the user complete control of every aspect of operation with the simple to use handbox. Tour the night sky's best objects or select an object from the over 140,000 in the database and the telescope automatically centers it in the eyepiece, all with just the push of a button.

SPECIFICATIONS

Clear Aperture	8" (203mm)	10" (254mm)	12" (305mm)	14" (356mm)	16" (406mm)
Part Number	0810-60-02	1010-60-02	1210-60-02	1410-60-02	1610-60-02
Optical Design	Advanced Coma-Free (all models)				
Focal Length, Focal Ratio	2000mm f/10	2500mm f/10	3048mm f/10	3556mm f/10	4064mm f/10
Max. Practical Visual Power	600X	650X	750X	850X	950X
Telescope Mounting	fork-type; double tine (all models)				
Ultra-High Transmission Coatings	Included	Included	Included	Included	Included
Primary Mirror Lock	included, progressive tension (all models)				
Zero Image-Shift Microfocuser	Optional Accessory Order PN 07080	Optional Accessory Order PN 07080	Optional Accessory Order PN 07080	Optional Accessory Order PN 07080	Included (4-speed)
Eyepiece	Series 4000 26mm Super Plössl	Series 4000 26mm Super Plössl	Series 4000 26mm Super Plössl	Series 4000 26mm Super Plössl	Series 5000 26mm 5-element Plössl
Viewfinder	8x50mm	8x50mm	8x50mm	8x50mm	8x50mm
GPS, True-level and North sensors	16-Channel GPS	16-Channel GPS	16-Channel GPS	16-Channel GPS	16-Channel GPS
Autostar® II Hand Controller	included (147,541 object database) all models				
Pointing Precision, High Prec. Mode	1-arc minute	1-arc minute	1-arc minute	1-arc minute	1-arc minute
Batteries (user-supplied)	8 x C-cells	8 x C-cells	8 x C-cells	8 x C-cells	
Battery Life (approx.)	20 hrs.	20 hrs.	20 hrs.	20 hrs.	N/A
Slew Speeds	RA and Dec: 0.01x to 1.0x sidereal, variable in 0.01x increments; 2x, 8x, 16x, 64x, 128x sidereal; 1°/sec. to 8°/sec., variable in 0.1° increments (all models)				
Tracking Rates	sidereal, lunar, or custom-selected from 2000 incremental rates (all models)				
Primary, Secondary Mirrors	Pyrex® glass	Pyrex® glass	Pyrex® glass	Pyrex® glass	Pyrex® glass
Correcting Plate/Lens					
Telescope Weight	73 lbs.	90 lbs.	125 lbs.	166 lbs.	318 lbs.
Shipping Weight	94 lbs.	122 lbs.	165 lbs.	225 lbs.	360 lbs.
Field Tripod Height	30" to 44" variable	30" to 44" variable	40" to 50" variable	40" to 50" variable	40" to 50" variable
UPC	7 09942 50023 3	7 09942 50033 2	7 09942 50045 5	7 09942 50055 4	7 09942 50069 1

The “Advanced” in Advanced Coma-Free

A traditional Ritchey-Chrétien (RC) is a type of reflector that delivers a coma-free, flat field of view via hyperbolic primary and secondary mirrors. RC telescopes (from a variety of manufacturers) are found in most of the world’s top observatories and NASA’s Hubble Space Telescope. Because the mirrors in these telescopes have always been very expensive to make, few amateur astronomers could enjoy them. Fortunately, Meade engineers developed a radical new Advanced Coma-Free design by combining a hyperbolic secondary mirror with a corrector-lens-and-spherical-primary-mirror combination that performs as one hyperbolic element. This ACF design produces a coma-free, flat field of view that rivals traditional RC telescopes at a fraction of the cost. The design even eliminates diffraction spikes and improves astigmatism, both of which are inherent in the traditional RC design. When reviewing Meade’s LX400-ACF Advanced Coma-Free, *Sky and Telescope* magazine said, “[It] does indeed perform like a [Ritchey-Chrétien]. The difference between the off-axis images (compared to a Schmidt-Cassegrain) was dramatic to say the least.”

16" ON SUPERGIANT FIELD TRIPOD



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LX200-ACF

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