LX600

	10 inch Advanced Coma-Free	12 inch Advanced Coma-Free	14 inch Advanced Coma-Free	16 inch Advanced Coma-Free
Product number	1008-70-01	1208-70-01	1408-70-01	1608-70-01
UPC	7 09942 50201 5	7 09942 50202 2	7 09942 50203 9	7 09942 50204 6
Optical design	Advanced Coma-Free			
Clear aperture	10 inches	12 inches	14 inches	16 inches
Focal length focal ratio	2032mm, f/8	2438mm, f/8	2845mm, f/8	3251mm, f/8
Optical coatings	UHTC			
Resolving power (Dawes limit)	.46 arcseconds	.38 arcseconds	.325 arcseconds	.285 arcseconds
Secondary obstruction (%)	20.95	16.86	13.28	TBD
AutoStar Controller	AutoStar II			
Object Database	145,000 objects			
Viewfinder	8x50 refractor with cross hairs			
Eyepiece	26mm Series 4000 Super Plössl			
Diagonal	1.25 inch diagonal prism			Series 5000 2 inch enhanced diagonal
Focus system	Internal Crayford-style, zero image-shift primary mirror focus with dual speed 7:1 control			
Primary mirror lock	Included on 12" and 16" OTA's only			
Slew Speeds	RA and Dec: 0.01x to1.0x sidereal, variable in 0.01x increments; 2x, 8x, 16x, 64x, 128x sidereal; 1°/sec. to 2°/sec., variable in 0.1° increments.			
Tracking Rates	Sidereal, lunar, or custom-selected from 2000 incremental rates			
Control Panel	12v DC in, 12v DC out, Power, Focuser, Reticle, Handbox port, 1 computer connection port (RS232), 1 StarLock port, 1 Aux guide port			
Telescope Mounting	Heavy-duty fork type; double-tine			
Split Fork Arm	OTA and Telescope base can be separated for easier assembly and disassembly			
Power supply	8 "C" batteries (user supplied), or optional 12v DC 5A Meade Universal Power Supply			12v DC 5A Meade Universal Power Supply
Tripod	Giant Field Tripod			MAX Tripod
Wedge (optional)	X-Wedge			MAX Wedge
Materials				
Primary mirror	Low-expansion borosilicate glass			
Secondary mirror	Individually figured with primary mirror for maximum correction. Low-expansion borosilicate glass			
Correcting plate/lens	Aspheric high-spectral transmission Borofloat glass from Schott AG Germany			
Optical tube	Aluminum			
	10 inch Advanced Coma-Free	**12 inch Advanced Coma-Free**	**14 inch Advanced Coma-Free**	**16 inch Advanced Coma-Free**
Weights and dimensions				
OTA and mount net weight	TBD	TBD	TBD	TBD
Tripod net weight	50 pounds			81 pounds

Shipping weight (approx.)	136 pounds	179 pounds	239 pounds	374 pounds
U.S. retail with mount, OTA, StarLock and tripod	$4,499	$5,499	$7,999	$19,999
StarLock				
Wide-field camera	25mm x 26mm f/1.04 optic with 1/2 inch format CMOS sensor gives field of 14.72 x 11.78 degrees.			
Narrow-field camera	80mm x 400mm f/5 optic with 1/2 inch format CMOS sensor gives field of 57.2 x 45.8 arcminutes (2.68 arcseconds/pixel)			
High-precision pointing	+/- 1 arcminute			
High-precision guiding	+/- 1 arcsecond (with good seeing. 1-4 second correction update rate depending on star magnitude. Faintest guide star 11th mag.)			
High-precision alignment	Semi-automatic drift align procedure for ultra-precise polar alignment			
Weight	2.7 pounds			

	10 inch ACF with X-Wedge	12 inch ACF with X-Wedge	14 inch ACF with X-Wedge	16 inch ACF with MAX wedge
Product number	1008-70-02	1208-70-02	1408-70-02	1608-70-02
UPC	7 09942 50211 4	7 09942 50212 1	7 09942 50213 8	7 09942 50214 5
U.S. retail with mount, OTA, tripod and optional wedge	$4,999	$5,999	$8,499	$22,999

Wedge price separately	$699	$3,499

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Specifications and prices subject to change without notice. 20-12003

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LX600™ WITH STARLOCK. THE MOST RADICALLY ADVANCED FORK-MOUNTED TELESCOPE EVER PRODUCED

LX600™

LX600 FEATURES EXCLUSIVE TO THE 16 INCH MODEL

Weighing in at Observatory-class, the 16 inch LX600 boasts features not available with the standard LX600 line:

⑧ **Filtered Cooling Fan** To keep your telescope in thermal equilibrium the optical tube is equipped with a cooling fan as well as a filtered exhaust vent.

⑨ **Professional-Grade Fork Mount With 11" Gears.** The massive 16" LX600 fork system, cast in one continuous piece from one declination housing to the other, includes a total of four 80mm roller bearings in declination (two in each housing) and two roller bearings in right ascension (one each of 100mm and 150mm bearings in the RA housing). Usage of these precision roller bearings in the telescope's design permits the addition of substantial auxiliary equipment without the risk of strain on the mount. Large DC-servo motor-driven 11" worm gears on both axes yield smooth, precision tracking and slewing required of a professional telescope.

⑩ **MAX Wedge (optional)** The MAX Wedge was designed using advanced CAD analysis to assure both ease of adjustment and rock solid stability using modern light weight alloys. Attractively finished, all standard field installation and adjustments on the MAX Wedge can be performed with the included tools or using large, easily accessible ergonomic handles and knobs.

⑪ **MAX Tripod** The MAX Tripod can be transported or permanently installed. It provides a wide stance to assure that it can safely carry the 16" LX600's payload in all orientations, but still collapses down to a size that is easy to handle. It will even fit in a single vehicle with the rest of your gear. The hinged feet are fitted with built-in anti-vibration pads for the most stable viewing possible.

Split-Fork arm design
The OTA and base can be separated

LX600

LX600 SERIES FEATURES

The LX600 is a simple to operate, portable package that makes taking great astrophotos as easy as focusing your camera and opening the shutter. The collection of features and technology integrated into the LX600 is unavailable from any other manufacturer and cannot be duplicated by just attaching a set of add-ons to another scope.

① **StarLock** The LX600 integrates a unique star tracking and object finding system into the telescope mount. This integration allows the telescope to center your target perfectly in the field of view. Once centered, the star tracking system communicates directly with the motor drives to automatically insure that your scope stays locked onto its target with arcsecond precision. The automated optical tracking system delivers long-exposure guiding with pinpoint stars on astroimages — all without the need of an external computer.

② **New f/8 Advanced Coma-Free™ Optical System** Meade has completely redesigned the OTAs with a new mirror mounting and focusing system to achieve zero image-shift and a two-speed microfocuser. The scope features faster f/8 ACF™ optics giving you pinpoint stars all the way across the field of view. The OTAs are available in 10, 12, 14 and 16 inch apertures.

③ **Internal Crayford-style 7:1 Focuser** The completely redesigned mirror mounting system achieves zero-image shift and integrates a two-speed microfocuser for quick and easy adjustments.

④ **Solid Fork Mount With Heavy Duty 5.75" Gears.** Large, high-quality worm-gear drives in both axes provide smooth movements with low periodic error that are critical for long exposure astrophotography, that provides the freedom to go horizon to horizon without any meridian flip, unlike German Equatorial Mounts.

⑤ **Alt/Az Mode** In alt/az mode, the LX600 also makes for the best visual and short exposure experience possible. StarLock will put every target dead center in the eyepiece and track with arcsecond accuracy so you can concentrate on the beautiful, wide fields of pinpoint stars created by the superb f/8 ACF optical system.

⑥ **Autostar II Controller**. Puts over 145,000 objects at your fingertips with the fastest GoTo performance available (8° per second - 10", 12" and 14" aperatures). Or you can control the system from an external computer.

⑦ **Giant Field Tripod** With 3" diameter chromed steel legs and cast aluminum tripod head — adjustable from 34" to 54" — the Giant Field Tripod provides a research-grade foundation for the LX600.

⑫ **All New X-Wedge™** Precision CNC-machined from ultra-ridged, aircraft-grade aluminum with smooth, accurate altitude and azimuth adjustments. Thirty percent more stable than competing equatorial wedges, the X-Wedge is the essential accessory for long exposure astroimaging.

⑬ **Portability** Need a telescope system that can be easily broken down and moved to a dark-sky site? Always wanted a bigger telescope, but were worried about the weight? With the NEW LX600 Split Fork design, you can have both. The OTA can be quickly separated from the mount, reducing the total weight that must be lifted at one time by 35 lb. This allows for easy setup and transportation even with a 12" or 14" OTA.