



See The Difference

LX90GPS™

8", 10" & 12" SCHMIDT-CASSEGRAIN TELESCOPES



12" LX90GPS

8" LX90GPS
8" LX90/UHTC
10" LX90GPS
10" LX90/UHTC
12" LX90GPS
12" LX90/UHTC

The NEW LX90GPS™ can do more than track satellites. It talks to them as well. Turn it on and the built-in Sony® GPS sensor immediately determines your precise date, time and location. AutoAlign™ then uses this info to align your scope for a tour of the most spectacular sights in the universe. With all the features of the legendary LX90 Schmidt-Cassegrain plus the ability to talk to satellites, the new LX90GPS now has it all. When it comes to industry-leading American-made optics, depth of features, and value for your dollar, the LX90GPS is the best Schmidt-Cassegrain telescope you can find that can find itself.

- **AUTOALIGN™** – Telescopes with Meade's new AutoAlign come pre-aligned. They are smart scopes that know the night sky right out of the box. AutoAlign picks two fail-proof alignment stars for you and places them right in your view-finder. Just center them to fine tune your alignment and the wonders of the universe are at your fingertips.
- **DIFFRACTION-LIMITED MEADE SCHMIDT-CASSEGRAIN OPTICS**
Meade individually figures their water-white corrector lenses and Pyrex® primary and secondary mirrors for superior light transmission, temperature stability, smoothness and correction.
- **OVERSIZED PRIMARY MIRROR** – Only Meade manufactures their primary mirrors in diameters larger than their listed aperture (e.g. the diameter of the 8" LX90's primary mirror is actually 8.25"). This additional 1/4" yields a wider, fully illuminated field-of-view, and allows you to see the light other telescopes leave behind.
- **Slew Speed** – The LX90GPS slews (moves) from star to star at 7 degrees per second. That is more than twice as fast as the competition. This means that over the course of an evening, a Meade LX90GPS will show you two to three times more objects.
- **RIGID CAST ALUMINUM FORK MOUNT** – The Meade LX90GPS's Optical Tube Assembly is mounted on two sturdy fork arms giving you a rock solid platform for astrophotography.
- **LX200™ - SERIES TRIPOD** – The LX90GPS comes standard with the same sturdy field tripod as the LX200R series telescope.
- **SMART DRIVE™** – Meade's AutoStar® provides Periodic Error Correction (in polar mode). Over the course of one or more training periods your LX90GPS will minimize guiding corrections during long exposure astrophotography.
- **AUTOSTAR CONTROLLER** – Meade's AutoStar® can be updated after purchase. Log on to www.meade.com to download software upgrades, guided tours and timely objects like comets, satellites and new discoveries – Free! Keep your AutoStar up-to-date, and your LX90GPS will grow with you for years to come.
- **SMARTFINDER™ (RED DOT) & 8 X 50 VIEWFINDER** – Quickly and easily locate and center deep sky objects.
- **MADE IN THE USA** – All LX90GPS telescopes are made in the USA at Meade's state-of-the-art design and manufacturing facility in Irvine, California.



Includes #497 AutoStar® Computer Controller

The Meade AutoStar controller helps you quickly find, and GoTo over 30,000 objects in the night sky. View planets, stars, galaxies, nebulae and comets—all at the push of a button. You don't already know the night sky? Let our preprogrammed *Tonight's Best™* tour in your AutoStar automatically point your telescope to the best objects in the sky. Astronomy has never been so easy and rewarding.



Includes Heavy-Duty LX-Series Field Tripod



- Sturdy field tripod
- Chrome-plated aluminum legs
- Spreader bar
- Adjustable height

Includes GPS & LNT™ (Level North Technology) module with SmartFinder™



- GPS
- Electronic Level Sensor
- Electronic Magnetic North Sensor
- High Precision Internal Clock
- Red Dot Viewfinder (SmartFinder)



Schmidt-Cassegrain Optics

Serious astronomers for years have recognized the Meade LX90 for its observatory-quality Schmidt-Cassegrain optical system. Its diffraction-limited optics are rich in contrast, brightness and image resolution.

Ultra-High Transmission Coatings*



Meade UHTC™ is a series of exotic optical coatings precisely tuned to optimize the visual, photographic and CCD imaging performance of your LX90GPS telescope. Image brightness is increased by nearly 15% over standard Meade coatings.

*Available optionally only at time of order

SPECIFICATIONS

	8" LX90GPS	10" LX90GPS	12" LX90GPS
Optical Design	Schmidt-Cassegrain	Schmidt-Cassegrain	Schmidt-Cassegrain
Clear Aperture	203mm (8")	254mm (10")	305mm (12")
Focal Length, Focal Ratio	2,000mm f/10	2,500mm f/10	3,048mm f/10
Optical Coatings	MgF ₂ on correcting plate (2-sides); standard aluminum on primary and secondary mirrors		
Ultra-High Transmission Coatings (UHTC™)	available optionally	available optionally	available optionally
Optical Tube Dimensions (dia. x length)	9.1" x 16.75"	11.75" x 22"	13.6" x 25"
GPS	Sony®GPS	Sony®GPS	Sony®GPS
LNT Module	Patented Level-North Technology with electronic level sensor, electronic magnetic north sensor, high-precision clock.		
Smart Finder™	Red Dot viewfinder	Red Dot viewfinder	Red Dot viewfinder
Viewfinder	8x50	8x50	8x50
Telescope Mounting	fork-type; double tine	fork-type; double tine	fork-type; double tine
Setting Circle Diameters, RA and Dec.	RA: 8"; Dec: 5"	RA: 8"; Dec: 5"	RA: 8"; Dec: 5"
Zero-Image Shift Electric Focuser	optional	optional	optional
GO TO Pointing Precision (approx.)	5-arc mins.	5-arc mins.	5-arc mins.
Pointing Precision, High Precision Mode	3-arc mins.	3-arc mins.	3-arc mins.
Slow-Motion Controls	electric, RA and Dec	electric, RA and Dec	electric, RA and Dec
#497 AutoStar Hand Controller	PIC 16C57 microcontroller; 2 line x 16 alphanumeric character display; 20-button keypad, red LED backlight		
Batteries (user-supplied)	8 x C-cells	8 x C-cells	8 x C-cells
Battery Life (approx.)	60 hrs.	60 hrs.	60 hrs.
Onboard Celestial Object Database	30,223 objects	30,223 objects	30,223 objects
Slew Speeds	RA and Dec: 1x, 2x, 8x, 16x, 64x, 128x sidereal and 1.5°/sec., 3°/sec., 6.5°/sec.		
Tracking Rates	sidereal, lunar, or custom-selected from 2000 incremental rates		
Tube Body	aluminum	aluminum	aluminum
Mount Castings	aluminum	aluminum	aluminum
Primary, Secondary Mirrors	Pyrex® glass	Pyrex® glass	Pyrex® glass
Correcting Plate/Lens	clear water white glass	clear water white glass	clear water white glass
Total Net Telescope Weight	53 lbs.	70 lbs.	80 lbs.
Telescope Shipping Weight (approx.)	73 lbs.	95 lbs.	105 lbs.
Field Tripod Height all models:	30" to 44" variable	30" to 44" variable	30" to 44" variable
Product Number / Standard Coatings	0810-90-50	1010-90-50	1210-90-50
Product Number / UHTC	0810-90-51	1010-90-51	1210-90-51
UPC Code / Standard Coatings	7 09942 37002 7	7 09942 37004 1	7 09942 37006 5
UPC Code / UHTC	7 09942 37003 4	7 09942 37005 8	7 09942 37007 2

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