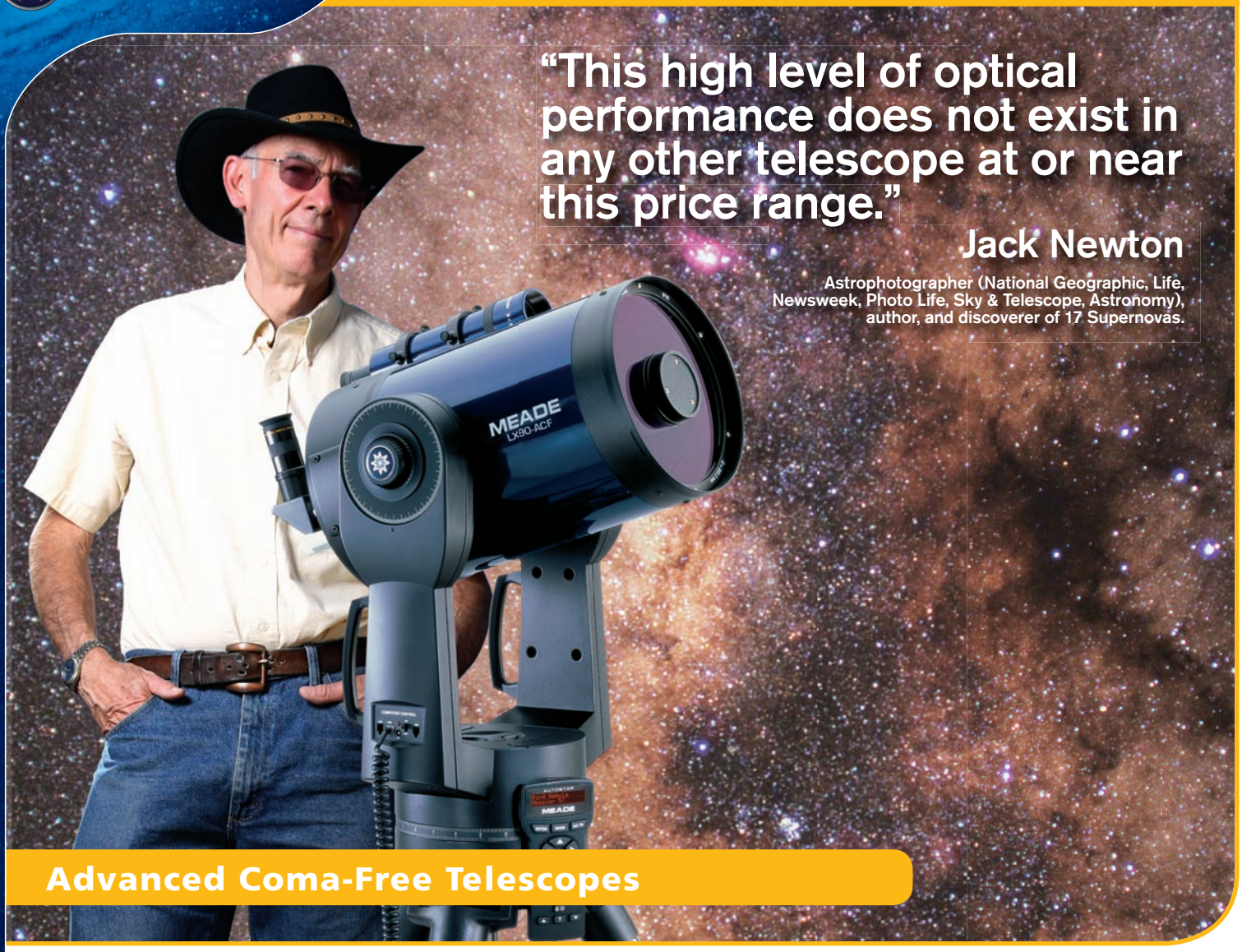
MEADE®

LX90-ACF™



"This high level of optical performance does not exist in any other telescope at or near this price range."

Jack Newton

Astrophotographer (National Geographic, Life, Newsweek, Photo Life, Sky & Telescope, Astronomy), author, and discoverer of 17 Supernovas.

Advanced Coma-Free Telescopes

The new LX90-ACF represents the latest step in the evolution of the LX90, featuring Meade's f/10 ADVANCED COMA-FREE OPTICS: Building from a classic RC design, Meade has created a new optical design with the same coma-free pinpoint star images and flatter field that discerning astrophotographers and most professional observatories expect. The NEW LX90-ACF with Meade's Advanced Coma-Free system also reduces the astigmatism and eliminates diffractions spikes found in classical RCs. No competing Schmidt-Cassegrain Telescope can make those claims. The LX90-ACF is the perfect platform for the demanding visual observer and imaging enthusiast with telescopes available in apertures of 8 inches, 10 inches, and 12 inches. When it comes to industry-leading optics, depth of features, and computerized operation, the LX90-ACF is the best all-around telescope value you can find.

FEATURES

- **GPS and LNT™**

  LX90-ACF uses electronic sensors including GPS and LNT to automatically determine its place in time and space. Turn it on and the sensors immediately determine your precise date, time, location, north and level position. AutoAlign then uses this info to align your scope with the sky and than you are ready for a tour of the most spectacular sights in the universe.

- **Advanced Coma-Free Optics**

  Meade's exciting optical innovation delivers stunning performance only seen previously with systems costing tens of thousands of dollars more. With the Ultra-High Transmission Coatings, the LX90-ACF gives you the sharpest, brightest optical system available at any price.

- **Rigid Cast Aluminum Fork Mount**

  The Meade LX90-ACF's Optical Tube Assembly is mounted on two sturdy fork arms giving you a rock solid platform for astrophotography. 4.875 inch precision worm-gear drives, not spur gears, give you the ultimate in tracking and pointing accuracy.

SPECIFICATIONS

Part Number	0810-90-01	1010-90-01	1210-90-01
Optical Design	Advanced Coma-Free	Advanced Coma-Free	Advanced Coma-Free
Clear Aperture	8" (203mm)	10" (254mm)	12" (305mm)
Focal Length, Focal Ratio	2000mm f/10	2500mm f/10	3048mm f/10
Optical Tube Dimensions (D x L)	9.1" x 16.75"	11.75" x 22"	13.6" x 25"
Optical Coatings	MgF2 on correcting plate (2-sides); standard aluminum on primary and secondary mirrors		
Ultra-High Transmission Coatings	Included	Included	Included
GPS	Sony®GPS	Sony®GPS	Sony®GPS
Included Eyepiece	26mm Series 4000 Super Plössl (All Models)		
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 Diam. RA & Dec.	RA: 8"; Dec: 5"	RA: 8"; Dec: 5"	RA: 8"; Dec: 5"
GO TO Pointing Precision (approx.)	5-arc minutes	5-arc minutes	5-arc minutes
Pointing Precision, High Prec. Mode	3-arc minutes	3-arc minutes	3-arc minutes
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 backlit		
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:	sidereal, lunar, or custom-selected from 2000 incremental rates		
Tracking Rates	RA and Dec: 1x, 2x, 8x, 16x, 64x, 128x sidereal and 1.5°/sec., 3°/sec., 6.5°/sec.		
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
Telescope Weight	33 lbs.	50 lbs.	60 lbs.
Tripod Weight	19 lbs.	19 lbs.	19 lbs.
Field Tripod Height	30" to 44" variable	30" to 44" variable	30" to 44" variable
UPC	7 09942 37016 4	7 09942 37017 1	7 09942 37018 8



LX90-ACF

Meade Instruments
6001 Oak Canyon
Irvine, CA 92618
tel 800.626.3233
www.meade.com

© 2008 Meade Instruments Corporation. All rights reserved. Specifications subject to change without notice.

MEADE®