

Ultra-High Transmission Coatings (UHTC): Available optionally with the ETX-90AT, ETX-105AT, or ETX-125AT, the Meade UHTC group permits the highest levels of light transmission (about a 20% increase in total telescope light transmission compared to the standard coatings) ever offered on amateur telescopes. The UHTC group, if desired, must be specified at the time of telescope order. See pp. 26-27 for full details on this important advance in optical coatings.

"Our [ETX-105] sample, purchased from stock at a local telescope dealer, was in perfect collimation...the version-22Et Autostar we tested behaves like mature technology...we sent the scope to a series of targets spread across the sky. It found each one with 100 percent success...Indeed, 90 percent of the targets were positioned within the center half of the field of view...Views of the Moon and planets were all satisfyingly crisp. The rings of Saturn, including the Cassini Division, were sharply rendered, and Jupiter's faded Red Spot was easy to see as it crossed the planet's central meridian...One of my most enjoyable moments with this Meade came while I was viewing Castor on a foggy evening that offered very good seeing. The scope split this unequal double star very cleanly and displayed the sort of Airy disks and diffraction rings that one sees in optical textbooks but seldom in real life."

— from the review in *Sky & Telescope*, March, 2002.

Standard Equipment: Meade ETX Astro Telescopes are supplied as complete instruments. Standard equipment includes a premium-grade Meade Series 4000 Super Plössl 26mm eyepiece for 48X with the ETX-90AT, 57X with the ETX-105AT, or 73X with the ETX-125AT. The 8 x 21mm viewfinder of the ETX-90AT incorporates an internal roof prism that results in an erect-image orientation, facilitating



The fully adjustable #864 Deluxe Field Tripod, included as standard equipment with ETX-90AT, ETX-105AT, and ETX-125AT models, permits seated or standing observations in either the altazimuth or equatorial modes. The tripod has an elevation range of 20° to 90°.

Specifications and Features: ETX-70AT, ETX-90AT, ETX-105AT, and ETX-125AT Astro Telescopes

TELESCOPE:	ETX-70AT	ETX-90AT	ETX-105AT	ETX-125AT
Optical Design	Achromatic refractor	Maksutov-Cassegrain	Maksutov-Cassegrain	Maksutov-Cassegrain
Primary Mirror Diameter	—	96mm (3.78")	116mm (4.56")	136mm (5.35")
Clear Aperture	70mm (2.8")	90mm (3.5")	105mm (4.13")	127mm (5.0")
Focal Length, Focal Ratio	360mm f/5	1250mm f/13.8	1470mm f/14	1900mm f/15
Near Focus (approx.)	17 ft. (5.2m)	11.5 ft. (3.5m)	15 ft. (4.6m)	15 ft. (4.6m)
Resolving Power (arc sec.)	1.6	1.3	1.1	0.9
Optical Coatings	multi-coated objective lens	MgF ₂ ; standard aluminum/SiO ₂ optional at time of purchase	MgF ₂ ; standard aluminum/SiO ₂ optional at time of purchase	MgF ₂ ; standard aluminum/SiO ₂ optional at time of purchase
Ultra-High Transmission Coatings (p. 26)	—	—	—	—
Limiting Visual Stellar Magnitude	11.3	12.3	12.5	12.5
Image Scale	4.14"/inch	1.18"/inch	0.99"/inch	0.78"/inch
Maximum Practical Visual Power	340X	420X	500X	600X
Optical Tube Dimensions (dia. x length)	3.6" dia. x 12" (9.3cm x 30.4cm)	4.1" x 1.1" (10.4cm x 27.9cm)	4.88" x 12.9" (12.4cm x 32.8cm)	5.73" x 14.2" (14.6cm x 36cm)
Eyepiece(s)	26mm, MA25mm	Super Plössl 26mm	Super Plössl 26mm	Super Plössl 26mm
Secondary Mirror Obstruction (dia. %)	—	1.1" (27.8mm); 9.6%	1.52" (38.6mm); 9.4%	1.52" (38.6mm); 9.6%
Telescope Mounting	—	fork type; double time	fork type; double time	fork type; double time
Setting Circle Diameters	—	Dec.: 3.7"; RA: 7"	Dec.: 3.6"; RA: 7"	Dec.: 4.3"; RA: 9"
RA and Dec. Motor Drive Systems	—	DC servo motors with encoders, both axes; 9-volts DC electric, 9-speed, both axes included (#494)	DC servo motors with encoders, both axes; 12-volts DC electric, 9-speed, both axes included (#497)	DC servo motors with encoders, both axes; 12-volts DC electric, 9-speed, both axes included (#497)
Slow-Motion Controls	—	—	—	—
Autostar Controller	—	—	—	—
Hemispheres of Operation	—	North and South	North and South	North and South
Batteries (user-supplied)	—	8 x AA	8 x AA	8 x AA
Battery Life (approx.)	—	20 hrs.	20 hrs.	20 hrs.
Bearings	—	Dec.: Acetal; RA: Nylon	Dec.: ball bearings; RA: radial ball bearing	Dec.: ball bearings; RA: ball bearings
Materials	—	—	—	—
Tube Body	high impact ABS	aluminum	aluminum	aluminum
Mounting	reinforced high-impact ABS	steel-reinforced high-impact ABS	internal aluminum structure with high-impact ABS	internal aluminum structure with high-impact ABS
Primary Mirror	—	Pyrex® glass	Pyrex® glass	Pyrex® glass
Connecting Lens	—	BK7 optical glass, Grade-A	BK7 optical glass, Grade-A	BK7 optical glass, Grade-A
Tripod; net weight	#862 Field Tripod; 6 lbs.	#864 Deluxe Field Tripod; 11 lbs.	#864 Deluxe Field Tripod; 11 lbs.	#864 Deluxe Field Tripod; 11 lbs.
Telescope Dimensions	15" x 7.3" x 8.5"	15" x 7.3" x 8.5"	17" x 8" x 10"	19" x 8.9" x 10.8"
Telescope Net Weight, less tripod	6.8 lbs. (3.0 kg)	7.8 lbs. (3.5 kg)	13.5 lbs. (6.1 kg)	15.2 lbs. (6.9 kg)
Telescope Shipping Weight, less tripod	11.9 lbs. (5.4 kg)	12.4 lbs. (5.6 kg)	18.4 lbs. (8.3 kg)	20.2 lbs. (9.1 kg)

Meade Etx 125 Telescope Operators Manual

David Kirk



Meade Etx 125 Telescope Operators Manual:

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