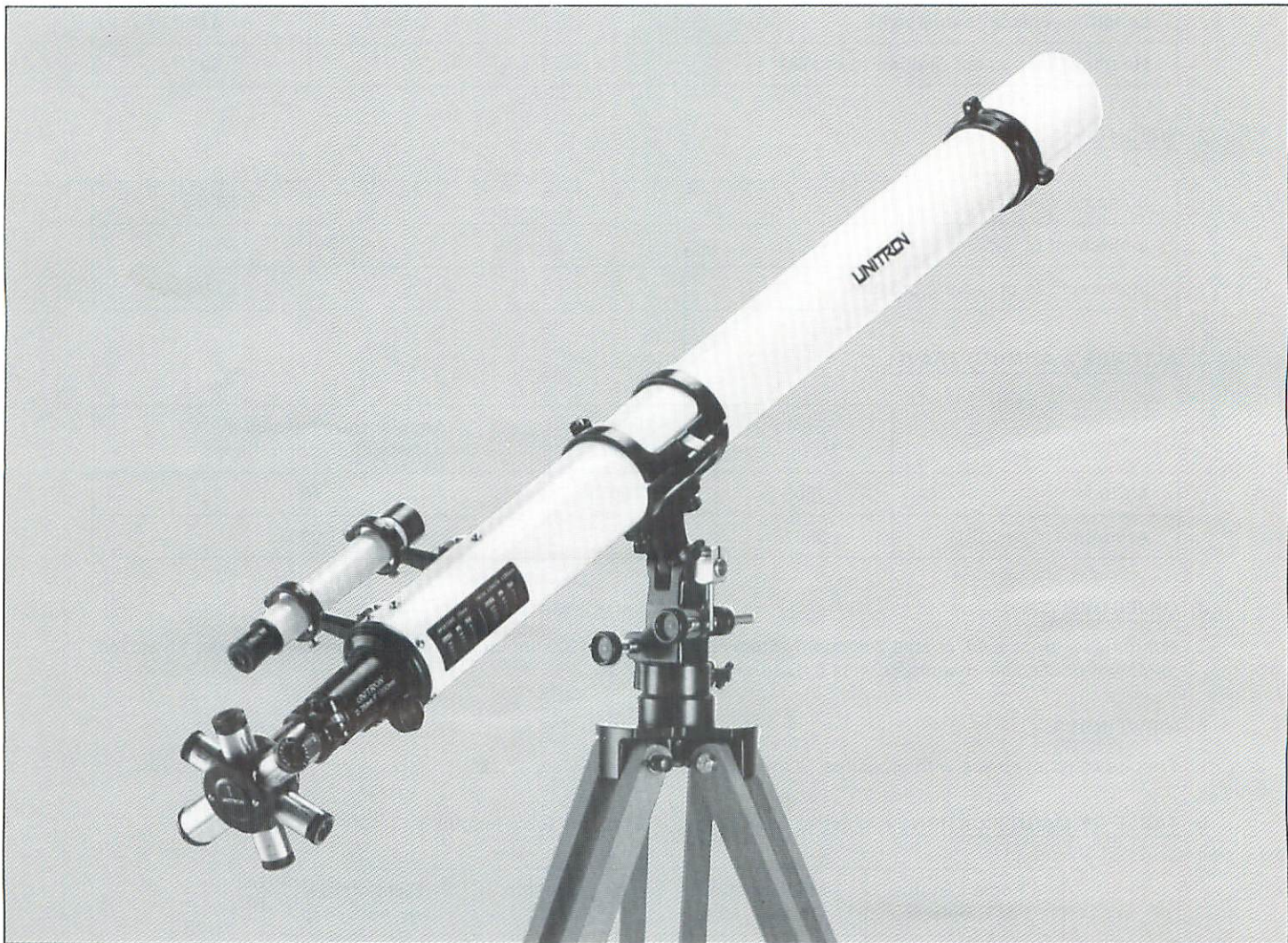


UNITRON[®] MODEL 140

3 inch ALTAZIMUTH REFRACTOR



MODEL 140 — Complete with: altazimuth mounting with coarse and slow motion controls in altitude and azimuth; tripod with leg brace and accessories shelf; 8X-30mm viewfinder; Standard rack and pinion focusing mechanism with eyepiece holder; 5 coated eyepieces*, 25mm (48X), 18mm (67X), 12.5mm (96X), 9mm (133X), 7mm (171X); dewcap; dustcap; wooden cabinet; instructions.

Prod. No. 16507 Model 140 3" Altazimuth Refractor.

*Powers indicated are double when the 2X Barlow Lens is used.

Although the Model 140 may be used as is for straight-through viewing, we recommend using one of the following accessory eyepiece holders for greater convenience:

- Prod. No. 16624 Model A Unihex, rotating multiple eyepiece selector
- Prod. No. 16745 2X Barlow Lens for Model A Unihex
- Prod. No. 16643 Model A Erecting Prism System
- Prod. No. 16645 Model A Star Diagonal, right angle eyepiece holder
- Prod. No. 16746 2X Barlow Lens for Model A Star Diagonal

See our catalog and price list for a wide variety of eyepieces and additional accessories.

UNITRON
EXCELLENCE BY DESIGN™
SINCE 1952

SPECIFICATIONS

Unitron Model 140 3" Altazimuth Refractor

1. DIMENSIONS:

Length (eyepiece to dustcap)	47"
Height of instrument (ground to cradle)	59"

2. WEIGHT:

Shipping weight	50 lbs.
Instrument in cabinet	36 lbs.
Instrument in observing position	23 lbs.

3. ALTITUDE & AZIMUTH TRAVEL:

	Fast Motion	Slow Motion	Angular travel/revolution of slow motion control knob
Altitude	180°	23° 00'	0° 46'
Azimuth	360°	28° 10'	1° 00'

4. OBJECTIVE:

Achromatic, air-spaced, coated 2-element 75mm clear aperture, 1200mm focal length, f/16, resolving power 1.5 arcsec, minimum observable magnitude +11.8, field of view 4° 20'.

5. VIEWFINDER:

Focusable 8X eyepiece with crossline, 30mm objective, field of view 4° 22'.

6. TABLE OF MAGNIFICATIONS (Objective focal length ÷ Eyepiece focal length)

Focal Length of Eyepiece	Magnification w/o Ach. Amp.	Mag. w/achro. Amp.	Field of view w/o Ach. Amp.
0 4mm	300X	600X	0° 08'
0 5	240	480	0° 11'
0 6	200	400	0° 12'
AS 7*	171	342	0° 13'
AS 9*	131	262	0° 17'
K 12.5*	96	192	0° 22'
K 18*	67	134	0° 31'
R 25*	48	96	1° 50'
M 40†	30	60	1° 14'

* Supplied as standard equipment.

† Must be used in UNIHEx or 1¼-inch adapter.

7. WARRANTY: Full 25-year warranty. Written warranty can be obtained free of charge upon specific written request, at the address shown below.

All specifications subject to change without prior notice

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