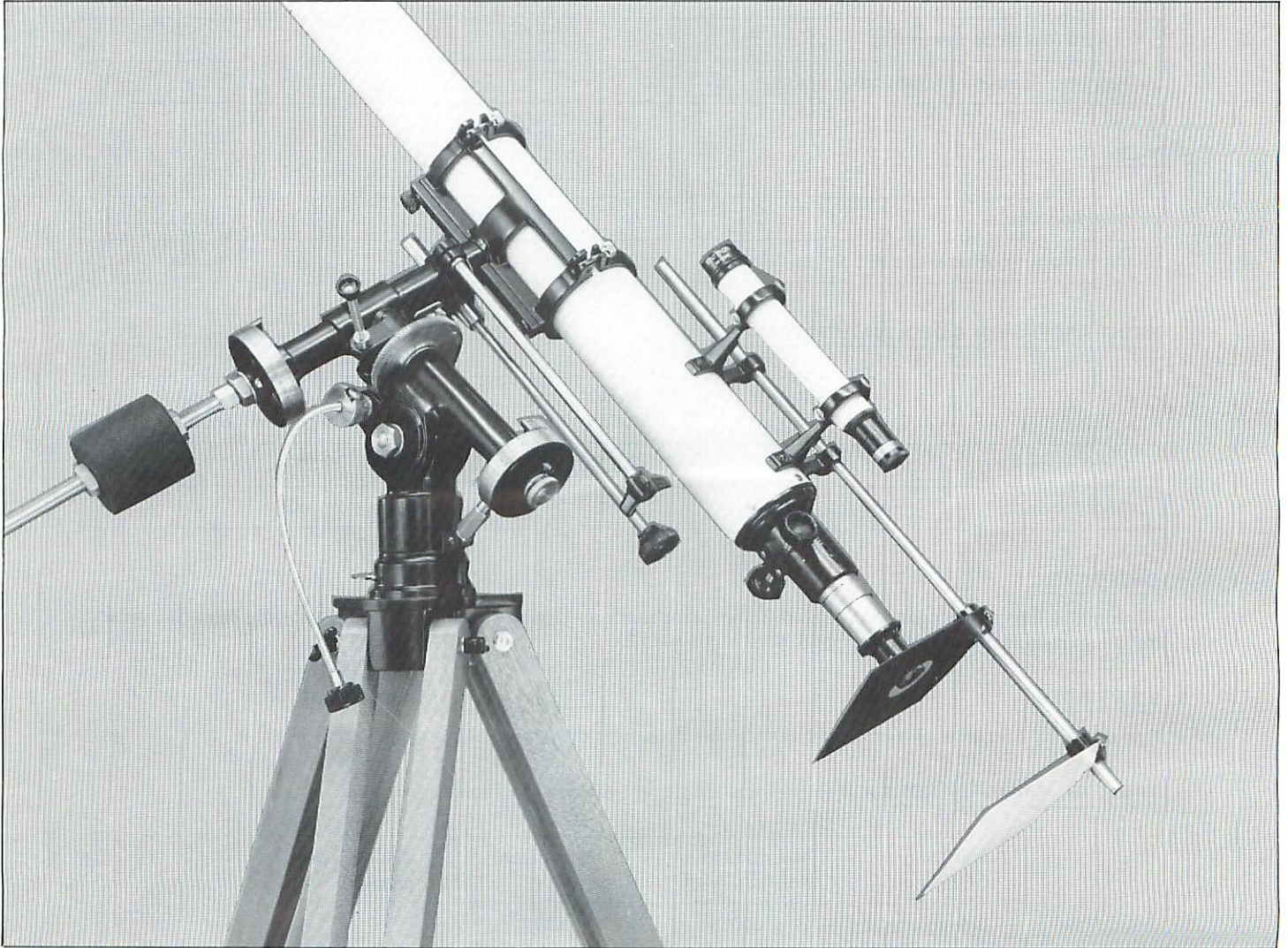


UNITRON[®] MODEL 142

3 inch EQUATORIAL REFRACTOR



ADDITIONAL EYEPIECES AVAILABLE* —

- Prod. No. 16622 Model A DUETRON
- Prod. No. 16624 Model A UNIHEX
- Prod. No. 16643 Erecting Prism†
- Prod. No. 16644 Adapter to use 1 1/4" Eyepieces in 24.5mm Holders
- Prod. No. 16645 Model A Star Diagonal
- Prod. No. 16653 Model A Sun Diagonal (Herschel Wedge)
- Prod. No. 16656 Deluxe Rack and Pinion**
- Prod. No. 16664 3" Counterbalance Clamp
- Prod. No. 16666 3" UNICLAMP Camera Bracket
- Prod. No. 16668 3" UNIBALANCE Set
- Prod. No. 16670 60mm Photo Guide Scope
- Prod. No. 16684 3" Synchronous Motor Drive
- Prod. No. 16690 Extra, Small Counterweight

* Powers indicated are doubled when the Achromatic Amplifier is used.

† Must be used in UNIHEX or Prod. No. 16644.

** Must be used with Prod. No. 16658, Coupling for 3 1/16" i.d. tubing.

ADDITIONAL EYEPIECES AVAILABLE* —

- Prod. No. 16627 40mm Monochromatic (for 30x)†
- Prod. No. 16635 6mm Orthoscopic (for 200x)
- Prod. No. 16636 5mm Orthoscopic (for 240x)
- Prod. No. 16637 4mm Orthoscopic (for 300x)

MODEL 142—Complete with Equatorial Mounting and slow motion controls for declination and right ascension, extension flexible cable for R.A. control, supplementary R.A. slow motion and provision for attaching accessory motor drive, setting circles and verniers, tripod and accessories shelf, 8x-30mm viewfinder, Standard rack and pinion focusing mechanism, choice of 5 coated eyepieces; 6mm (200x), 9mm (133x), 12.5mm (96x), 18mm (67x), 25mm (48x), solar aperture diaphragm sun projecting screen, dewcap, dustcap, wooden cabinets, instructions.

UNITRON
EXCELLENCE BY DESIGN™
SINCE 1952

SPECIFICATIONS

Unitron Model 142 3" Equatorial Refractor

1. DIMENSIONS:

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

2. WEIGHT:

Shipping weight	80 lbs.
Instrument in observing position	46 lbs.

3. RIGHT ASCENSION & DECLINATION TRAVEL:

	Fast Motion	Slow Motion	Angular travel/revolution of slow motion control knob
Right ascension	14 ^h 30 ^m	1 ^h 30 ^m	5 ^m
Declination	360°	30° 30'	1° 30'

4. OBJECTIVE:

Achromatic, air-spaced, coated 2-element, 75mm clear aperture, 1200mm focal length, f/16, resolving power 1.5 arcsec, minimum magnitude observable +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/ach. Amp.	Field of view w/o Ach. Amp.
0 4mm	300X	600X	0° 10'
0 5	240	380	0° 13'
0 6*	200	400	0° 15'
AS 7	171	342	0° 17'
AS 9*	131	262	0° 20'
K 12.5*	96	192	0° 28'
K 18*	67	134	0° 40'
R 25*	48	96	0° 50'
M 40†	30	60	1° 20'

* 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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