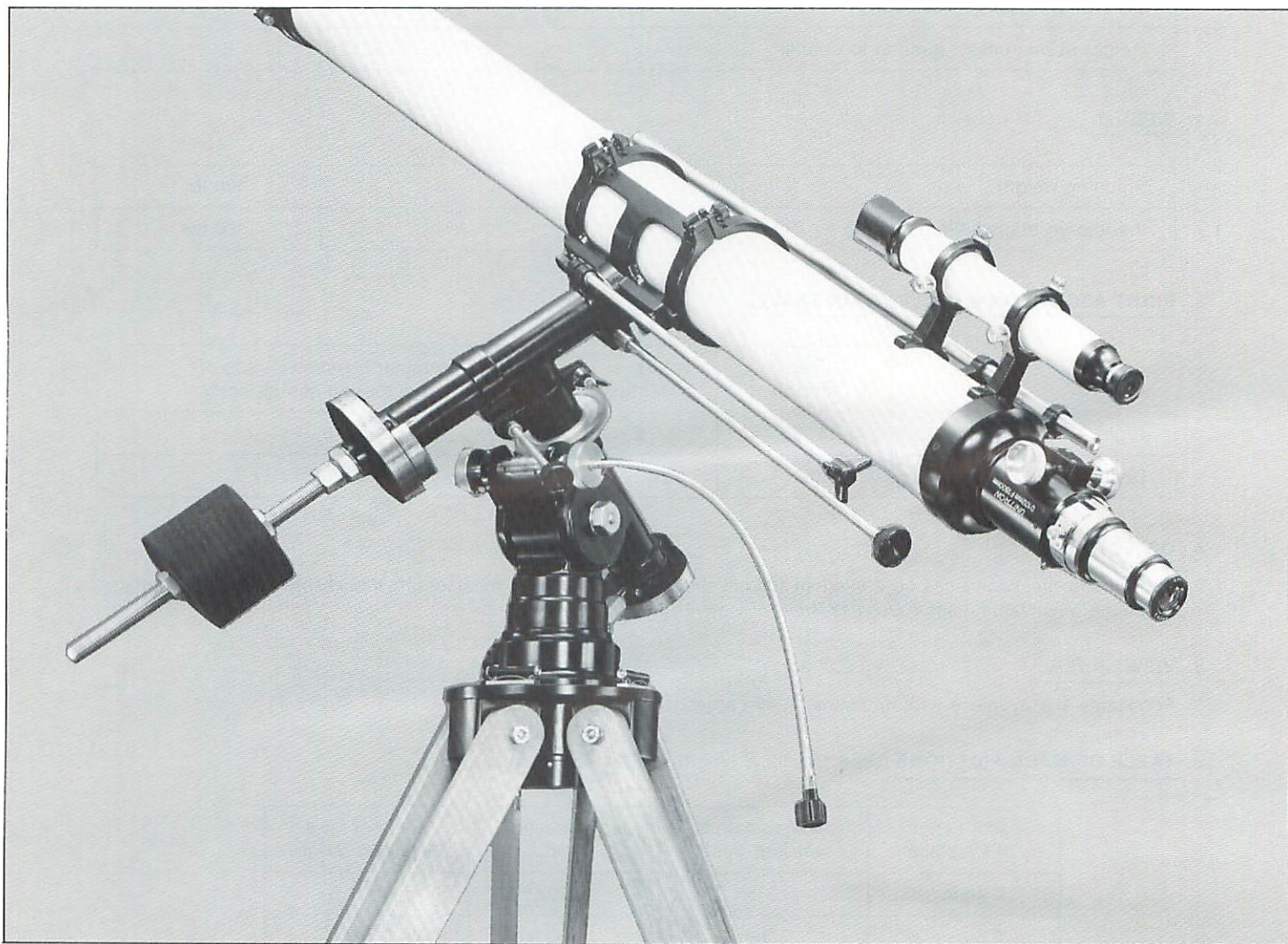


# UNITRON<sup>®</sup> MODEL 152

## 4 inch EQUATORIAL REFRACTOR



### ADDITIONAL EYEPIECES AVAILABLE\*—

- Prod. No. 16636 5mm Orthoscopic (for 300x)
- Prod. No. 16637 4mm Orthoscopic (for 375x)
- Prod. No. 16638 60mm Kellner (for 25x)††

### ADDITIONAL ACCESSORIES AVAILABLE:

- Prod. No. 16622 Model A DUETRON
- Prod. No. 16624 Model A UNIHEX
- Prod. No. 16626 Super UNIHEX
- Prod. No. 16643 Erecting Prism System
- Prod. No. 16645 Model A Star Diagonal
- Prod. No. 16653 Model A Sun Diagonal (Herschel Wedge)
- Prod. No. 16667 4" UNICLAMP Camera Bracket
- Prod. No. 16669 4" UNIBALANCE Assembly

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

† Must be used in UNIHEX.

†† Must be used in Super UNIHEX or Super Rack and Pinion.

MODEL 152—Complete with Equatorial Mounting and slow motion controls for both right ascension and declination, extension flexible cable for R.A. control, supplementary R.A. slow motion control and provision for attaching accessory motor drive, setting circles and veniers, tripod with levels, accessories shelf, battery-operated shelf illuminator, 10x-42mm viewfinder, Super rack and pinion focusing mechanism, 7 coated eyepieces: 6mm (250x), 7mm (214x), 9mm (167x), 12.5mm (120x), 18mm (83x), 25mm (60x), 40mm (38x)†, solar aperture diaphragm, sun projecting screen set, dewcap, dustcap, wooden cabinets, instructions.

**UNITRON**  
EXCELLENCE BY DESIGN™  
SINCE 1952

## SPECIFICATIONS

# Unitron Model 152 4" Equatorial Refractor

### 1. DIMENSIONS:

Length (eyepiece to dustcap)	5' 3"
Height of instrument (ground to cradle)	5' 6"

### 2. WEIGHT:

Shipping weight	130 lbs.
Instrument in observing position	100 lbs.

### 3. RIGHT ASCENSION & DECLINATION TRAVEL:

	Fast Motion	Slow Motion	Angular travel/revolution of slow motion control knob
Right ascension	14 <sup>h</sup> 30 <sup>m</sup>	2 <sup>h</sup>	8'
Declination	360°	30° 24'	6'

### 4. OBJECTIVE:

Achromatic, air-spaced, coated, 2-element 100mm clear aperture, 1500mm focal length, f/15, resolving power 1.1 arcsec, minimum observable magnitude +12, field of view 3° 22'.

### 5. VIEWFINDER:

Focusable 10X eyepiece with crossline, 42mm objective, field of view 2° 54'.

### 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	375X	750X	0° 06'
0 5	300	600	0° 08'
0 6*	250	500	0° 10'
AS 7*	214	428	0° 11'
AS 9*	167	334	0° 14'
K 12.5*	120	240	0° 18'
K 18*	83	166	0° 25'
R 25*	60	120	0° 40'
M 40†	38	76	0° 58'
K 60‡	25	N/A	1° 17'

\* Supplied as standard equipment.

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

‡ Must be used in Super UNIHEX or Super Rack and Pinion.

### 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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