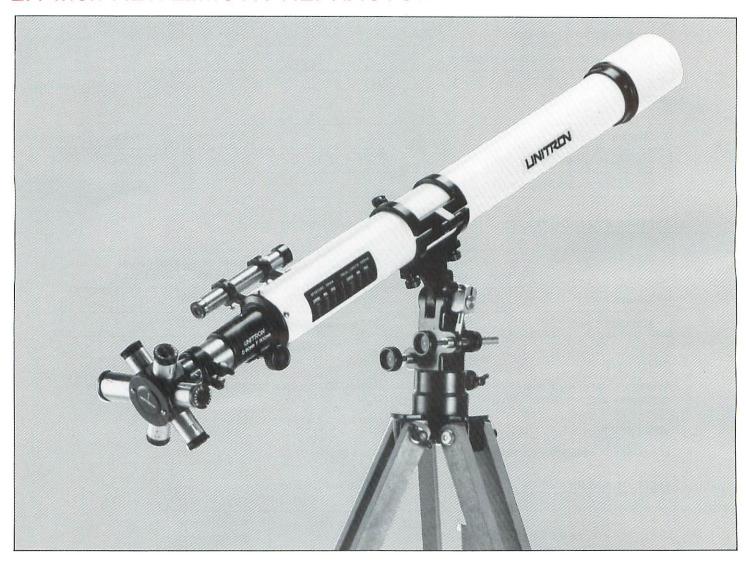
# MODEL 114 2.4 inch ALTAZIMUTH REFRACTOR



MODEL 114 — Complete with: altazimuth mounting with coarse and slow motion controls in altitude and azimuth; tripod with leg brace and accessories shelf; 6X-24mm viewfinder; Standard rack and pinion focusing mechanism with eyepiece holder; 4 coated eyepieces\*, 25mm (35X), 18mm (50X), 12.5mm (72X), 9mm (100X); dewcap; dustcap; wooden cabinet; instructions.

Prod. No. 16501 Model 114 2.4" Altazimuth Refractor.

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

Although the Model 114 may be used as is for straightthrough 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.



#### **SPECIFICATIONS**

### Unitron Model 114 2.4" Altazimuth Refractor

#### 1. DIMENSIONS:

Length (eyepiece to dustcap)	34 1/2 "
Height of instrument (ground to cradle)	58 "

#### 2. WEIGHT:

Shipping weight	30 lbs.
Instrument in cabinet	27 lbs.
Instrument in observing position	16 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° 50′	1° 06′	

#### 4. OBJECTIVE:

Achromatic, air-spaced, coated 2-element 60mm clear aperture, 900mm focal length, f/15, resolving power 1.9 arcsec, minimum magnitude observable +11, field of view 7° 12 '.

#### 5. VIEWFINDER:

Focusable 6X eyepiece with crossline, 24mm objective, field of view 6° 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.
4mm	225X	450X	0° 11′
5	180	360	0° 14′
6	150	300	0° 16′
7	129	258	0° 18′
9*	100	200	0° 23′
12.5*	72	144	0° 29′
18*	50	100	0° 42′
25*	35	70	1° 08′
40†	22	44	1° 41′

<sup>\*</sup> Supplied as standard equipment.

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

<sup>†</sup> Must be used in UNIHEX or 11/4-inch adapter.