

UNITRON

PHOTOGRAPHY
with
ASTRO-CAMERA
220



MODEL 145 — COMPLETE with Equatorial Mounting and slow motion controls for both declination and R.A., setting circles and verniers, tripod, photographic guide telescope and accessories, 10X-42mm. viewfinder, rack and pinion focusing mechanism§, 6 eyepieces, choice of UNIHEX or star diagonal and erecting prism system, sun projecting screen apparatus, sunglass, UNIBALANCE tube assembly, pocket eyepiece case, dewcap, dustcap, wooden cabinets, instructions.

\$550.

EYEPIECES INCLUDED —

200X (6mm.), 171X (7mm.), 131X (9mm.),
96X (12.5mm.), 67X (18mm.), 48X (25mm.)

ADDITIONAL EYEPIECES AVAILABLE —

4mm. for 300 power†	\$14.75
5mm. for 240 power	14.75
40mm. for 30 power‡	14.75

ADDITIONAL ACCESSORIES AVAILABLE —

*UNIHEX Rotary Eyepiece Selector	\$24.75
DUETRON Double Eyepiece	23.50
Astro-Camera 220 with Accessories	69.50
*Erecting Prism System	18.50
3" UNICLAMP Camera Bracket	3.75

†Can be used to advantage only under excellent observing conditions.
‡Available as standard equipment as noted above.
§Must be used in UNIHEX or in special adapter priced at \$3.00.
§The De-Luxe rack and pinion is available at an extra cost of \$15.50.
This is described briefly in the section "General Information on UNITRON Refractors" and illustrated in the above photo.

ASTRO-PHOTOGRAPHY with a UNITRON

Photography and astronomy go hand in hand and recording your observations can add a new dimension to your observing program. Astro-Camera 220 uses the telescope objective as the camera lens to photograph at the primary focus of the telescope or, with a telescope eyepiece in position, to project an enlarged image on the film. The camera may be used with any of the altazimuth models except No. 127 to photograph the sun, sunspots, the moon, solar and lunar eclipses, as well as distant terrestrial objects. For stars, nebulae, clusters and comets, an equatorial mounting is necessary. The UNITRON Guide Telescope permits accurate tracking and a clock drive is essential for prolonged exposures. Astro-Camera 220 is pictured and described in more detail in a later page. For star fields, a camera of short focal ratio is of interest and UNITRON will offer a number of such astro-cameras of different apertures. Owners of suitable cameras may attach them to their telescopes as shown above by means of a UNICLAMP Camera Bracket which is available to fit 2.4", 3", and 4" refractors. The clamp encircles the tube and holds a screw threaded to fit the tripod socket of standard cameras. The bracket is designed primarily for equatorial models in which the telescope may be used to guide the camera during a time exposure. The UNIBALANCE Tube Assembly shown above is used to balance heavy accessories.

3-Inch PHOTO-EQUATORIAL