

POLAREX UNITRON®

ASTRONOMICAL TELESCOPES & ACCESSORIES



D157mm, F2500mm

Finder: 12.5×60

Guide scope:
D102mm, F1500mm

Eyepieces: 6 mm,
7 mm, 9 mm, 12.5
mm, 18mm, 25mm,
40mm, 60mm. (41-
410×).

Accessories: Same
as Model 136.

Power sec.: 0.87.

Minimum magnitude
observable: 13.2.

Field of view: 3°10'.

Model 135 6"

NIHON SEIKO KENKYUSHO, LTD.

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**Model 127 1.6", 105 2", 133-N 2.4"
Altazimuth Refractor**

Objective lens: D 40 mm, 50 mm, 60 mm, F 700 mm
Viewfinder: 4× 19 mm
Eyepieces: Model 127 & 105...9 mm, 12.5 mm, 18 mm
 Model 133-N7 mm, 12.5 mm, 18 mm, 25 mm
Accessories: Star diagonal, Sunglass,
Magnifications: Model 127, 105...38× to 78×
 Model 133-N28× to 100×
Power sec.: 127...3, 105...2.3, 133-N...2.3
Minimum magnitude observable: 127...10, 105...10.5, 133...11
Field of view: 127, 105, 133-N...7'12'
Additional accessories available: Sun diagonal



Model 114 2.4" Altazimuth Refractor

Objective lens: D 60 mm, F 900 mm
Viewfinder: 4× 19 mm
Eyepieces: 9 mm, 12.5 mm, 18 mm, 25 mm
Accessories: Star diagonal, Sunglass, Erecting prism
Magnifications: 36× to 100×
Power sec.: 2
Minimum magnitude observable: 11
Field of view: 7'12'
Additional accessories available: Rotary eyepiece holder, Double eyepiece holder, Sun diagonal, Solar aperture diaphragm, Camera clamp, Sun projection screen, Astro-camera, Spectro scope.



Model 129 3" Altazimuth Refractor

Objective lens: D 75 mm, F 1200 mm

Viewfinder: 8× 30 mm

Eyepieces: 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm

Accessories: Star diagonal, Sunglass, Erecting prism

Magnifications: 48× to 171×

Power sec.: 1.6

Minimum magnitude observable: 11.8

Field of view: 4°20'

Additional accessories available: Rotary eyepiece holder, Double eyepiece holder, Sun diagonal, Solar aperture diaphragm, Camera clamp, Sun projection screen, Astro-camera, Spectro scope.



Model 134 4" Altazimuth Refractor

Objective lens: D 102 mm, F 1500 mm

Viewfinder: 10× 40 mm

Eyepieces: 6 mm, 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm

Accessories: Star diagonal, Sunglass, Erecting prism

Magnifications: 60× to 250×

Power sec.: 1.2

Minimum magnitude observable: 12

Field of view: 3°22'

Additional accessories available: Rotary eyepiece holder, Double eyepiece holder, Sun diagonal, Solar aperture diaphragm, Camera clamp, Sun projection screen, Astro-camera, Spectro scope.



Model 128 2.4" Equatorial Refractor

Objective lens: D 60 mm, F 900 mm

Viewfinder: 6× 23.5 mm

Eyepieces: 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm

Accessories: Star diagonal, Sunglass, Erecting prism, Sun projection screen, Solar aperture diaphragm.

Magnifications: 36× to 128×

Power sec.: 2

Minimum magnitude observable: 11

Field of view: 6 00'

Additional accessories available: Rotary eyepiece holder, Double eyepiece holder, Sun diagonal, Camera clamp, Synchronous motor, Astro camera, Spectro scope.



Model 131 3" Equatorial Refractor

Objective lens: D 75 mm, F 1200 mm

Viewfinder: 8× 30 mm

Eyepieces: 6 mm, 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm

Accessories: Star diagonal, Sunglass, Erecting prism, Sun projection screen, Solar aperture diaphragm.

Magnifications: 48× to 200×

Power sec.: 16

Minimum magnitude observable: 11.8

Field of view: 4°22'

Additional accessories available: Rotary eyepiece holder, Double eyepiece holder, Sun diagonal, Camera clamp, Synchronous motor, Astro camera, Counterbalance clamp, Spectro scope.



Model 132 4" Equatorial Refractor

Objective lens: D 102 mm, F 1500 mm

Viewfinder: 10× 40 mm

Eyepieces: 6 mm, 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm, 40 mm

Accessories: Star diagonal, Sunglass, Erecting prism, Sun projection screen, Solar aperture diaphragm

Magnifications: 37× to 250×

Power sec.: 1.2

Minimum magnitude observable: 12

Field of view: 3°22'

Additional accessories available: Rotary eyepiece holder, Double eyepiece holder, Sun diagonal, Camera clamp, Synchronous motor, Astro-camera, Counter balance clamp, Spectro scope.



Model 132-E 4" Photo Equatorial Refractor

Objective lens: D 102 mm, F 1500 mm

Viewfinder: 10× 40 mm

Guide telescope: D 60 mm, F 700 mm, W 9 mm eyepiece.

Eyepieces: 6 mm, 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm, 40 mm, 60 mm

Accessories: Star diagonal, Sunglass, Erecting prism, Sun projection screen, Solar aperture diaphragm, Astro-camera, Motor or Clock drive, Counter-balance clamp, Super rack and pinion.

Magnifications: 25× to 250×

Power sec.: 1.2

Minimum magnitude observable: 12

Field of view: 3°22'

Additional accessories available: Same as Model 132.



Model 132-F

Model 132-F 4" Photo Equatorial

Objective lens: D 102 mm, F 1500 mm

Viewfinder: 10× 40 mm

Guide scope: D 60 mm, F 700 mm, W 9 mm

Eyepieces: 6 mm, 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm, 40 mm, 60 mm

Accessories: Star diagonal, Sun glass, Erecting prism, Sun projection screen, Solar aperture diaphragm, Astro-camera, Motor or Clock drive, Counterbalance clamp, Super rack and pinion.

Magnifications: 25× to 250×

Power sec.: 1.2

Minimum magnitude observable: 12

Field of view: 3°22'

Additional accessories available: Rotary eyepiece holder, Double eyepiece holder, Sun diagonal, Camera clamp.

Model 136 5" Photo Equatorial

Objective lens: D 127 mm, F 2000 mm

Viewfinder: 10× 40 mm

Guide scope: D 75 mm, F 1200 mm, W/9 mm

Eyepieces: 6 mm, 7 mm, 9 mm, 12.5 mm, 18 mm, 25 mm, 40 mm, 60 mm

Accessories: Star diagonal, Sun glass, Erecting prism, Sun projection screen, Solar aperture diaphragm, Astro-camera, Motor or Clock drive, Counterbalance clamp, Super rack & pinion.

Magnifications: 33× to 330×

Power sec.: 1

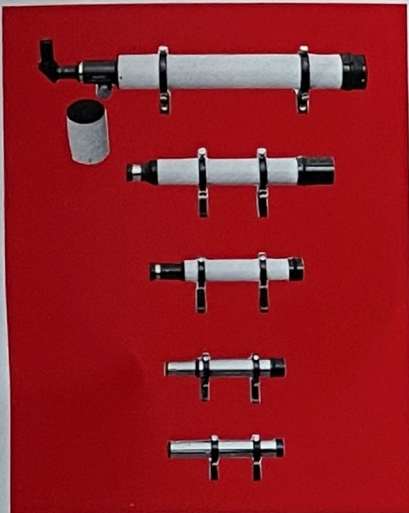
Minimum magnitude observable: 12.8

Field of view: 3°22'

Additional accessories available: Star camera and same as Model 132 F 4"



Model 136



VIEWFINDERS

- 12.5× 60 mm
- 10× 40 mm
- 8× 30 mm
- 6× 23.5 mm
- 4× 19 mm



EYEPIECES

- 4 mm Orthoscopic
- 5 mm Orthoscopic
- 6 mm Orthoscopic
- 7 mm Symmetrical
- 9 mm Symmetrical
- 9 mm as above,
with crossline
- 12.5 mm Kellner
- 18 mm Kellner
- 25 mm Ramsden
- 40 mm Monochro.
- 40 mm as above,
with crossline
- 60 mm Kellner



Achromatic amplifier (Barlow lens)



Sunglass & Moonglass

POLAREX · UNITRON

TELESCOPE ACCESSORIES



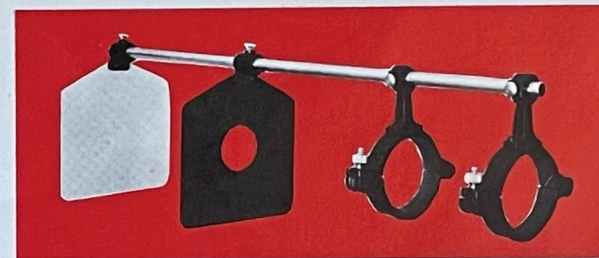
Star diagonal



Erecting prism



Camera clamp (bracket)
A convenient device to attach a camera
to your telescope
For 2.4", 3" and 4" Model



Sun projection screen with clamp
Set for 2.4" & 3", with screen 6"×6"
Set for 4" Model with screen 7"×7"



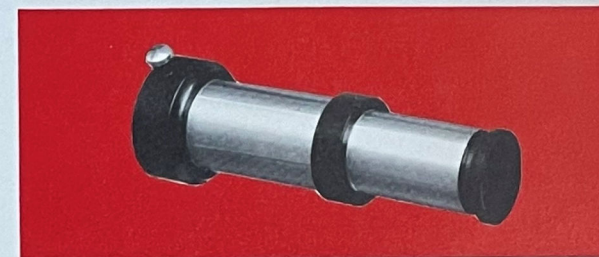
Herschel solar wedge
(Sundial)



Erecting star diagonal



Compound viewfinder
(half mirror)



Star spectro scope
Set for all model



Synchronous Motor



Motor for Model 132EF, 5", 6"



Clock Drive
(with weight and coupling device)

Synchronous Motor:

After you have located a celestial object, the synchronous motor will keep it centered in the field of view, allowing you to devote your full attention to observing.

Clock Drives:

All UNITRON, POLAREX Equatorial models are available with Synchronous Motor. Model 132E, F, 5" & 6" can, in addition, use UNITRON POLAREX Clock drive which features adjustable speed control and requires no electrical power.

All equatorial models have a second, supplementary R.A. slow motion to facilitate changes in this coordinate without the need to stop or disengage the clock. This feature is included on all UNITRON POLAREX instruments, even those ordered without the drive, in case you should choose to add this accessory at a later date.

Double Eyepiece Holder:

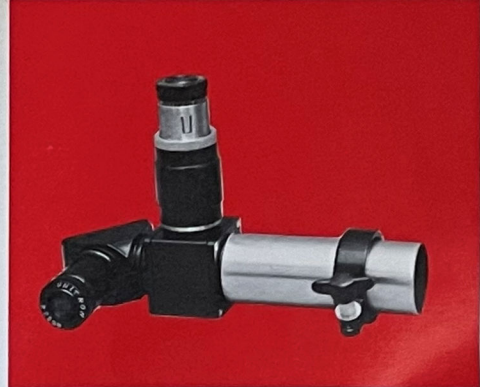
With the Double Eyepiece Holder, two observers may use the telescope simultaneously. A focusing sleeve is provided so that the eyepieces used need not be of the same magnification.

Rotary Eyepiece Holder:

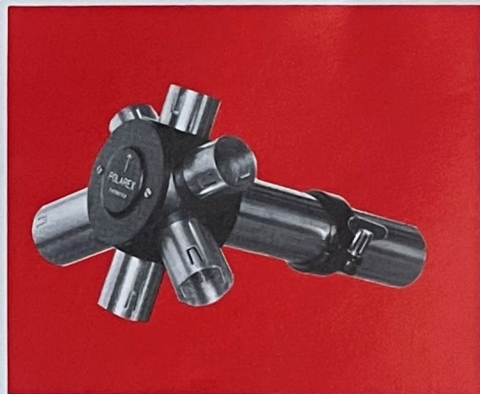
The old-fashioned method of fumbling with eyepiece in the dark has been outmoded by the Rotary Eyepiece Holder which puts 6 magnifications at your fingertips. To change power, merely rotate a new eyepiece into position while the object stays centered in the field of view.

Astro Camera

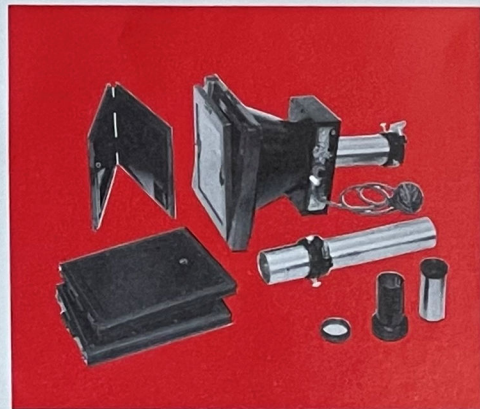
As illustrated is a light-weight camera designed especially for photography using the objective lens (or mirror) of the telescope as the principal optical element. A photo-ocular projects a magnified image at the film plane. The ocular can be removed to permit prime focus photography. An air operated curtain shutter of the Thornton-Pickard type gives speed of 1/10 to 1/90 sec. in addition to bulb and time. Three double plateholders, cut film adapters, extension tubes, a special 30 mm photo-ocular, filter, clamps, air operated shutter release are included.



Double Eyepiece Holder



Rotary Eyepiece Holder



Astro Camera