MIZAR Astronomical TELESCOPE

The highest quality good for the astronautical age.

Astronomical "CORONA"

Astronomical "AF56"

Astronomical "ZENGER"

Astronomical "ZENITH"

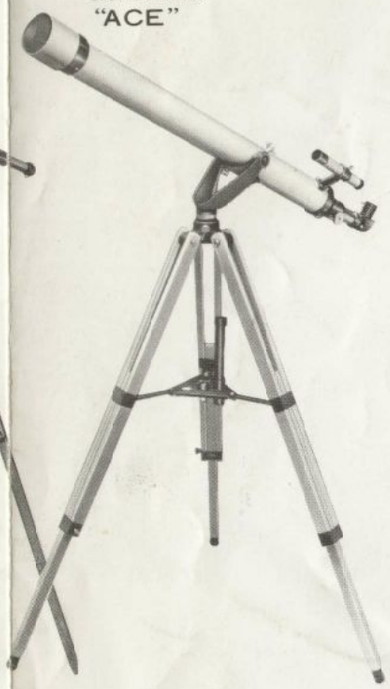
Astronomical & Terrestrial "Deluxe ZENGER"

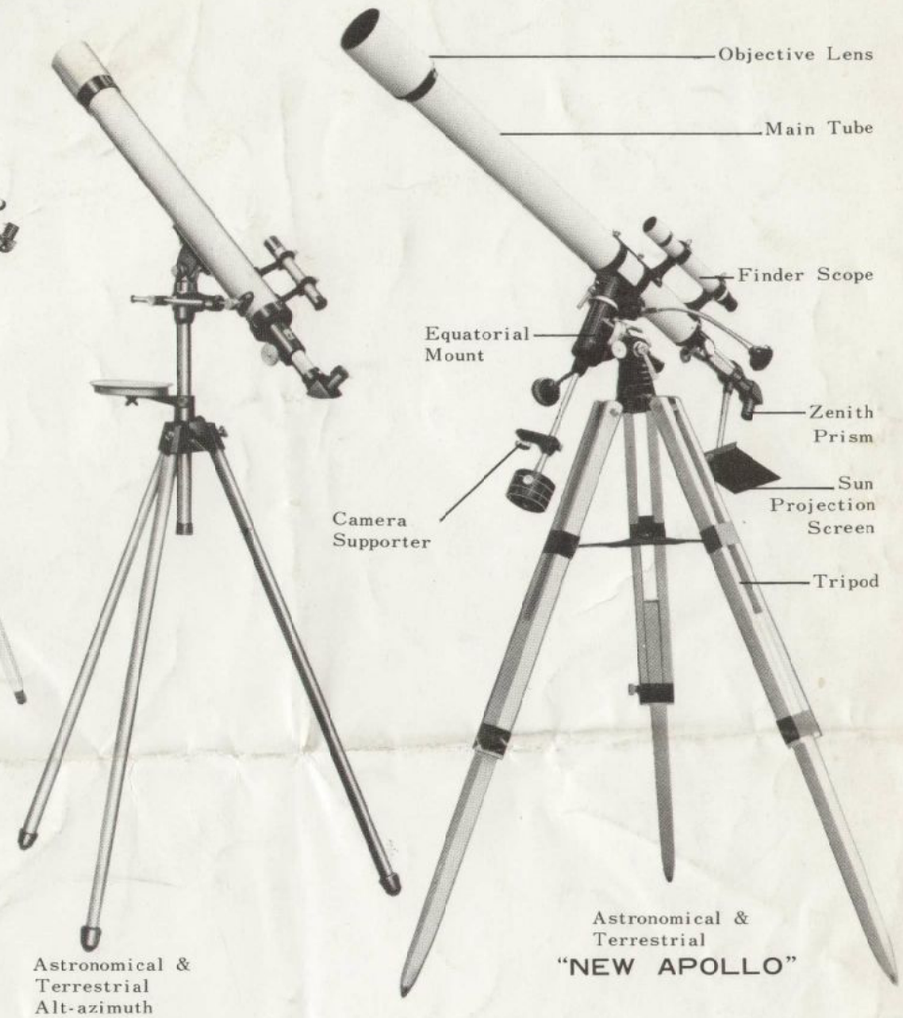


Model	OPTICAL EFFECT OF OBJECTIVE							Weight	Accessories
	Clear aperture	Focal length	Light collecting power for naked eye	Resolving power with respect to double star	Faintest discernible star	Eye-piece	Magnifications		
CORONA	40mm	800mm	32×	2.90″ (sec)	9.m8	F 10	80×	3.2kg	Sun-glass
AF56	40mm	800mm	32×	2.90″ (sec)	9.m8	F 20mm F 10mm	40× 80×	3.5kg	Sun-glass
ZENGER	60mm	800mm	73×	1.93″ (sec)	10.m7	F 20mm F 8mm	40× 100×	4.0kg	Sun-glass
ZENITH	60mm	800mm	73×	1.93″ (sec)	10.m7	F 20mm F 8mm	40× 100×	4.4kg	Sun-glass
Deluxe ZENGER	60mm	800mm	73×	1.93″ (sec)	10.m7	F 20mm F 12.5mm F 8mm Terr.(F-16mm)	40× 64× 100× 50×	4.7kg	Sun-glass Terrestrial eye-piece F-16mm
ACE	60mm	1000mm	73×	1.93″ (sec)	10.m7	F 20mm F 12.5mm F 8mm Terr.(F-16mm)	50× 80× 125× 62×	6.0kg	Sun-glass Finder (5×20mm) Diagonal prism Terrestrial eye-piece F-16mm
LAMBDA—A	60mm	800mm	73×	1.93″ (sec)	10.m7	H 20mm HM 8mm Terr.(F-16mm)	40× 100× 50×	6.0kg	Sun-glass Finder (5×20mm) Diagonal prism Terrestrial eye-piece F-16mm
NEW APOLLO	68mm	1000mm	94×	1.85″ (sec)	11.m0	K 18mm HM 12.5mm HM 6mm	55× 80× 167×	16.5kg	Sun-glass Finder (10×30mm) Achromatic Diagonal prism Sun projector Mount of Camera.

MIZAR Astronomical TELESCOPE

Astronomical & Terrestrial Alt-azimuth "ACE"





Astronomical & Terrestrial Alt-azimuth

"LAMBDA-A"

High Resolving Power Objective (Fraunhober type, achromat)
Practical and Functional Design. Solid Mounting, Handsame Form Floded up compactly, Easy for Carrying and putting away. Best of New Standard Type.

Astronomical & Terrestrial

"NEW APOLLO"

Highest class telescope with equatorial & altazimuth mount fitted up with slow motions, being recommend by the astronomical authorities and the educators. German-type of Equatorial & Alt-Azimuth Mounting with Gradunations of "Hour Aungle & Lattitude"
High resolving power objective (Frauhofer type, achromat); Camera mounting of "Constellation Photography; "Helicoid" type of focusing apparatus.

HINO KINZOKU SANGYO CO., LTD.

Meguro, Tokyo, Japan

AGENCY

MIZAR REFLECOR TELESCOPE

Available completely ranging from the popular type to the professional.

Astronomical Reflector "H-65"

Compact reflector with High resolving power, Exquisite definition

Astronomical Reflector "H-80"

Easy focus adjusting by adopting helicoide apparatus

Astromical Reflector "H-85"

German-type of Equatorial & Alt-Azimuth Mounting with Graduations of "Hour Angle" & "Lattitude"

Fine Finished Paraholic Mirror.

Camera Mounting for "Constellation Photography"

"Helicoid" type of Focusing Apparatus"

Astronomical Reflector "H-100"



Model	OPTICAL EFFECT OF OBJECTIVE							Weight	Accessories
	Clear aperture	Focal length	Light collecting power for naked eye	Resolving power with respect to double star	Faintest discernible star	Eye-piece	Magnifications		
Reflector H—65	65 mm	700 mm	86×	1.78″ (sec)	10.m9	F 20 mm F 8 mm	35× 87×	4.4kg	Sun-glass Finder (5×20 mm)
Reflector H—80	Parabolic 80 mm	700 mm	131×	1.54″ (sec)	11.m3	HM 12.5 mm HM 5 mm	56× 140×	5.5kg	Sun-glass Finder (5×20 mm)
Reflector H—85	Parabolic 85 mm	850 mm	146×	1.36″ (sec)	11.m4	H 20 mm HM 6mm	42× 140×	8.5kg	Sun-glass Finder (10×30 mm) Achromatic
Reflector H—100	Parabolic 100 mm	1000 mm	204×	1.16″ (sec)	11.m8	K 18mm HM8mm HM 5 mm	55× 125× 200×	17.0kg	Sun-glass Finder (10×30 mm) Achromatic Aparture stop for direct Obseruation of the Sun Mount of Camera

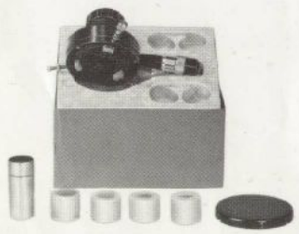
MIZAR CAMEA ADAPTER



SHINSEI ADAPTER

For Astro Photography with 35mm S.L.R. Camera

- ■Use for both "Direct Focus Method" and "Magnifying Method"
- ■Sliding the eye-piece position, magnificatoin is variable within a certain range.
- ■It may fit up to any 24.5mm O.D. type eye-piece of astronomical telescopes.
- ■It may fit to almost all the 35mm S L.R. cameras (body) made in Japan or of the Leica-mount.



HINO ADAPTER

Apparatus for Photographying with Telescope or Microscope for "Indirect Method" (without detaching Camera-lens.)

- ■Using both eye-piece & camera-lens.
- ■Fits for any type of 35-m/m camera, (Coupled Range Finder, S.L.R. Half-Size) with the front lenz frame O.D. 34～58m/m.
- ■Fits also for other product's Telescopes & Microscopes.

ACCESSORIES



EYEPIECES

HM25mm · HM12.5mm
HM 8mm · HM 6mm
HM 5mm · H20mm
AH40mm · Or4mm
Or 6mm · Or9mm
K18mm · K25mm
———etc.

To know magnification of a telescope in conjuncti-on with a certain eyepiece, divide the focal length of its objective by that of each eyepiece.



FINDER TELESCOPE

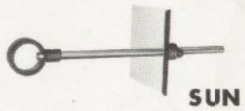
- 10×30mm Achromatic
- 5×20mm

Astronomical telescope must be needed of the star finder telescope of low power and wide field. Can be fitted to the main tube and provided with graticule set be in parallel with the optical axis of the main telescope.



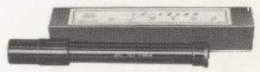
STAR DIAGONAL PRISM

Consits of a right angle prism which facilitates observations when fitted into the eyepiece draw-tube. This prism is greatly helpful when observing in high elavation angle and will be found the most useful addition to any refractor.



SUN PROJECTION SCREEN

To project the image of the Sun upon a white screen with the aid of the star diagonalprium. The screen may be covered with a sheet of white paper on which the image of the Sun with sun spots may be projected and traced with a pencil.



TERRASTRIAL EYEPIECE

F—16mm

Any astronomical telescope can be converted to get an erect image, and so used for terrestrial viewing by addition of this eye-piece.



BARLOW LENS

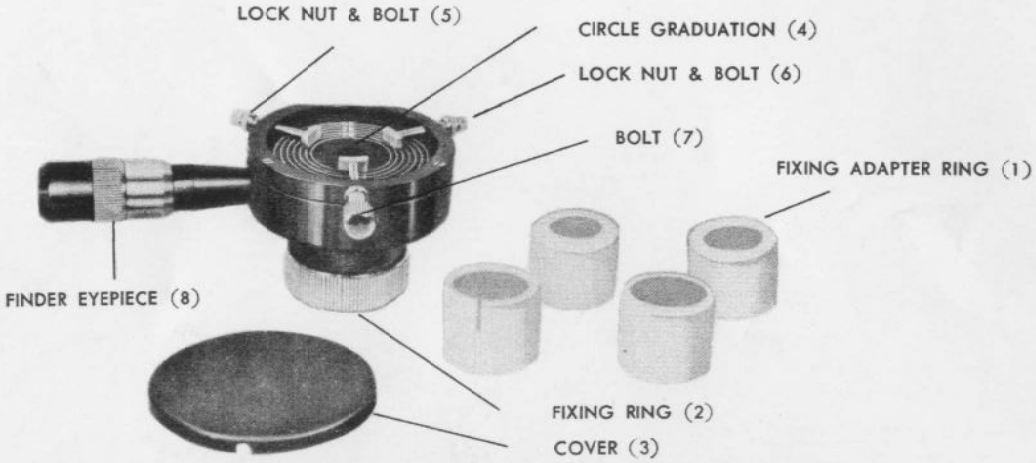
Attached to the draw-tube of the telescope, and it, gives an increase in the magnifying power. The increase in the effectives magnifying power 2× can be obtained. It thus enables the user to do several works with one or two eyepieces

HINO KINZOKU SANGYO CO., LTD.

Meguro, Tokyo, Japan

"CAMERA ADAPTER"

For • Micro-Photography
• Astro-Photography



Operating Instructions :

1. Select one suitable adaptor (1) of the 4 supplied, and fix it on the microscope tube.
2. Bring the crooked hardware of the Lock Nut and Bolt, (5) and (6), to one of the circle graduations (4) coresponding to the lens frame of a camera to be used.
3. Apply the lens frame of the camera to the hardware of Lock Nut & Bolt (5) and (6), and fix it by turning the Fixing Bolt (7), This makes the apparatus hold the camera firm, each hardware closely contacting the outer frame of the camera lens.
4. Adjust the finder eyepiece until the cross mark is clearly visible ; further get exact focus by using both rough and fine adjustment devices on the microscope or telescope.
   Then bring the image of photographing object right on the center of cross mark. (At this time, the image in the finder perfectly coincides with that in the camera.)
5. Set the lens of the camera at the infinite distance, the iris diaphragm at the "open" position, the shutter at a desired speed.
6. The above completes the preparation ; looking through the finder eyepiece, recheck it if the object is clearly visible and depress the camera shutter. For micro photographing, it is recommended that a suitable microscope illuminator be used.

Printed in Japan