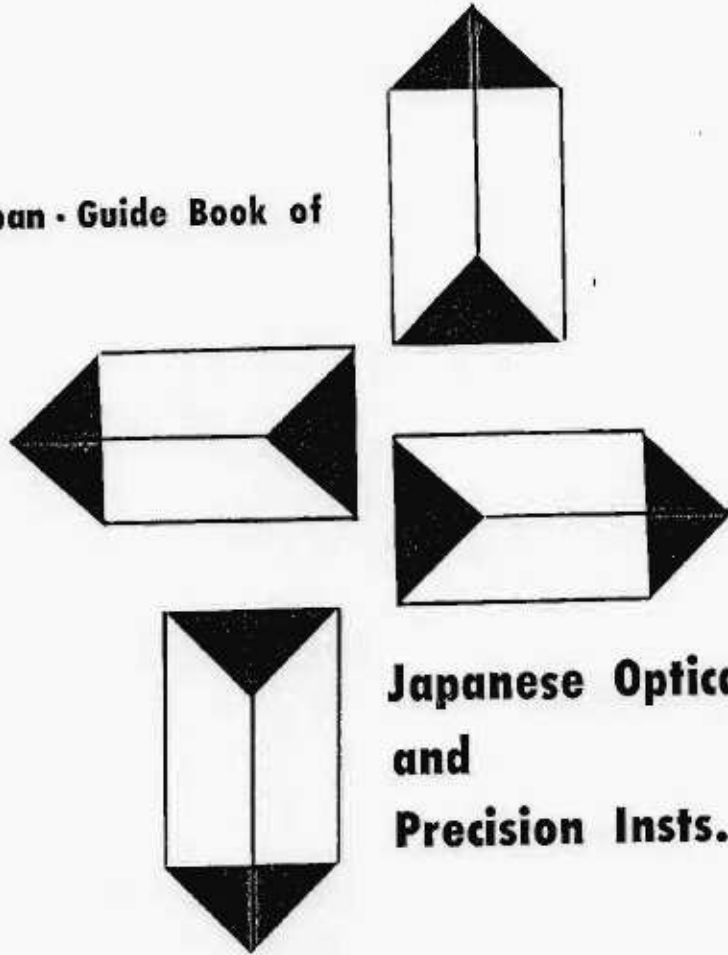


1957

1957 / 58

Machinery Japan - Guide Book of



**Japanese Optical
and
Precision Insts.**

Compiled by :
**Japan Optical and
Precision Instruments
Manufacturers' Association**
Supervised by :
**Ministry of International
Trade and Industry**

**TRADE
MARKS
OF
MANUFACTURERS**



AIRES CAMERA IND. CO., LTD.

B.S.D

BUNSHODO CO., LTD.

Canon

CANON CAMERA CO., INC.



CHIYODA KOGAKU SEIKO K.K. KI

ELMO

ELMO CO., LTD.



FUJI PHOTO FILM CO., LTD.



FUJI OPTICAL CO., LTD.



FUJI SOKURYOKI SEIZO K.K.
(FUJI SURVEYING INSTRUMENT MFG.
CO., LTD.)



FUJI TRADING CO., LTD.



HAZAMA ELECTRIC CO., LTD.



HOKUSHIN ELECTRIC WORKS, LTD.



JAPAN MICROSCOPE MFG. CO., LTD.



KATSUMA OPTICAL CO., LTD.



KOFUKU SANGYO CO., LTD.
KOWA OPTICAL WORKS



KOMITZ KOGYO K.K.



KONISHIROKU PHOTO IND. CO., LTD.



KURIBAYASHI CAMERA INDUSTRY, INC.



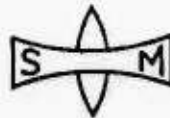
KUROKI OPTICAL INST. CO., LTD.



KYOWA OPTICAL CO., LTD.



LEOTAX CAMERA CO., LTD.



MAMIYA CAMERA CO., LTD.



MIKASA & CO.



MYCRO CAMERA CO., LTD.



NANSHIN OPTICAL INDUSTRY CO., LTD.



NICCA CAMERA CO., LTD.



NEOCA CO., LTD.



NIHON KOGEI CO., LTD.



NIPPON KOGAKU K.K.



OFUNA OPTICAL INSTRUMENT
MFG. CO., LTD.



OKAYA OPTICAL CO., LTD.



OLYMPUS OPTICAL CO., LTD.



OMORI SOGO KOGAKU KOGYO
CO., LTD.



J. OSAWA CO., LTD.



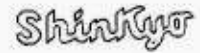
RIKEN OPTICAL INDUSTRY, LTD.



SANKYO KOHKI
(OPTICAL GOODS) WORKS, LTD.



SHIMADZU SEISAKUSHO LTD.



SHINKYO ELECTRIC IND. CO., LTD.



SHOWA OPTICAL CO., LTD.



TOKYO
SOKKISHA CO., LTD.



SOKUEISHA CO., LTD.



TAMA SOKKI & CO.



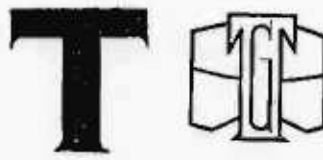
TAMAYA & CO., LTD.



TANAKA OPTICAL CO., LTD.



TOA OPTICAL CO., LTD.



TOGODO OPTICAL CO., LTD.



TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K.K.)



TOKYO SOKKI CO., LTD.



TOKYO SURVEYING INSTITUTE
(TOKYO SOKURYOJUTSU KENKYUSHO)



TOKYO THEATRE SUPPLY CO., LTD.



UNION OPTICAL CO., LTD.



USHIKATA MFG. CO., LTD.



VICTOR COMPANY OF JAPAN, LTD.



WALZ CO., LTD.



YAMANO SEISAKUSHO



YASHIMA OPTICAL CO., LTD.

6 INCH EQUATORIAL REFRACTOR

Objective Aperture: 150 mm
 Focal Length: 2250 mm
 Eyepieces: Huygenian 40 mm, 25 mm and 18 mm
 Orthoscopic 9 mm and 7 mm
 Hour Circle: Reading 20 sec.
 Declination Circle: Reading 5 sec.
 Finder Telescope: Magnification 27 X
 Objective aperture 50 mm
 Focal length 750 mm
 Real field of view 1° 50'

Mounting: German style equatorial
 3 Sun glasses
 2 Moon glasses
 1 Star diagonal
 1 Sun prism (Herschel type)
 1 Sun projecting screen (each for main and finder telescope)
 Carrying case (for above mentioned accessories)
 Position micrometer, Astro-camera, Moon camera, 6 X finder telescope, etc. are available on order.



NIPPON KOGAKU K. K.

TELESCOPES

1 1/2 and 2 Inch ASTRONOMICAL TELESCOPE

	1 1/2 inch	2 inch
Objective Aperture:	65 mm	50 mm
Focal Length:	980 mm	750 mm
Eyepieces:		
focal lengths:	Huygenian 25 mm, 18 mm Orthoscopic 9 mm Terrestrial 40 mm	Huygenian 18 mm Orthoscopic 9 mm
Magnifications:	40 X, 55 X, 110 X, 25 X	42 X, 83 X
Equipped with:	with slow motion control	without slow motion control
Accessories:	Sun glass Sun projecting screen Wooden cabinet	Sun glass Sun projecting screen Star diagonal with Zenith finder Wooden cabinet
Weight:	Telescope 3 kg Tripod 12 kg Wooden case 10 kg	Telescope 2 kg Tripod 7.5 kg Wooden case 5 kg
Eyepieces, orthoscopic 5 mm, 7 mm, Huygenian 12.5 mm and finder telescope 6 X are available on order.		



NIPPON KOGAKU K. K.

JUPITER TELESCOPE

Magnification: 50 X
 Diameter of Objective: 50 mm
 Weight: Telescope 2 lbs. (1.07 kg)
 Tripod 23 1/2 lbs. (11.15 kg)
 Length: 24" (610 mm)
 Height: 15 3/4" (400 mm)

In grey finish, supplied with tripod.



ASAHI OPTICAL CO., LTD.

**OBSERVATION BINOCULAR
COIN OPERATED
20 - 120 coated**

Aperture of Objective 120 mm
Magnification 20x
Real Field of View 3°
Exit Pupil 6 mm
Commodity 35
Power Requirement 100 or 110 V, 50 or 60 cycle A.C.

After the coin is inserted, the picture opens automatically and will remain open for the pre-adjusted time interval.



KOFUKU SANGYO CO., LTD.
KOWA OPTICAL WORKS

**12 CM OBSERVATION
BINOCULAR
TELESCOPE**

Aperture of Objective 120 mm
Magnification 20x
Real Field of View 3°
Exit Pupil 6 mm
Weight 12 1/2" (314 mm)
Height 27 1/2" (698 mm)
Weight 40 lbs (18 kg)

Mount with horizontal and vertical circles



TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

**12 CM OBSERVATION
BINOCULAR TELESCOPE
WITH INCLINED EYEPIECE**

Aperture of Objective 120 mm
Magnification 20x
Real Field of View 3°
Exit Pupil 6 mm
Diameter Adjustment 1/2" (12.7 mm)
Weight 35 lbs (15.8 kg)

Height 27 1/2" (698 mm)
Length 12 1/2" (314 mm)
Mount with horizontal and vertical circles



NIPPON KOGAKU K. K.

**12 CM OBSERVATION
BINOCULAR TELESCOPE**



Aperture of Objective 120 mm
Magnification 20x
Real Field of View 3°
Exit Pupil 6 mm
Diameter Adjustment +2 - +4
Weight 35 lbs (15.8 kg) with mount

Height 27 1/2" (698 mm)
Length 12 1/2" (314 mm)
Weight 40 lbs (18 kg)

Mount with horizontal and vertical circles

NIPPON KOGAKU K. K.

**8 CM OBSERVATION
BINOCULAR TELESCOPE
WITH INCLINED EYEPIECES**



Aperture of Objective 80 mm
Magnification 15x
Real Field of View 4°
Exit Pupil 5.3 mm
Diameter Adjustment +2 - +4
Weight 27 1/2" (698 mm) with mount

Height 27 1/2" (698 mm) with mount
Weight 13 1/2" (340 mm)
Length 14 1/2" (368 mm)

Mount with horizontal and vertical circles

NIPPON KOGAKU K. K.

**8 CM OBSERVATION
BINOCULAR TELESCOPE**



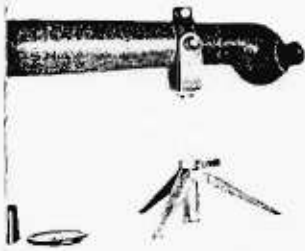
Aperture of Objective 80 mm
Magnification 15x
Real Field of View 4°
Exit Pupil 5.3 mm
Diameter Adjustment +2 - +4
Weight 27 1/2" (698 mm) with mount

Height 27 1/2" (698 mm) with mount
Weight 13 1/2" (340 mm)
Length 14 1/2" (368 mm)

Mount with horizontal and vertical circles

NIPPON KOGAKU K. K.

SPOTTING SCOPE
20x60 coated



(with 25x eyepiece lens)

Magnification: 45x offset type
Magnification: 25x
Diameter of Objective: 60 mm
Overall length: 16 3/4" (42.5 mm)
Barrel length: 3 1/4" (82.5 mm)
Weight: 6 1/4" (158 mm)
Exit pupil: 2.5 mm
Weight: 20 lbs. (1,150 gr.)
Changeable eyepiece
Magnification: 15x, 20x, 40x, 60x

KOFUKU SANGYO CO., LTD.
KOWA OPTICAL WORKS.

MEIJI PRISMATIC
SPOTTING SCOPE
20x50 coated
(Extra wide field)



Magnification: 20x
Aperture of Objective: 50 mm
Diameter of Eyepiece: 15 mm
Field of View: 3.3° (180 feet at 1000 yard)
Exit Pupil: 2.5 mm
Relative Brightness: 6.25
Weight: 1 3/8 lbs. (620 gr.)
Height: 12 3/4" (320 mm)
Width: 10 3/8" (270 mm)

MEIJI SEIKO CO., LTD.

SPOTTING TELESCOPE
20x50 coated



Magnification: 20x
Aperture of Objective: 50 mm
Real field of View: 3°
Exit Pupil: 2.5 mm
Diapler Adjustment: +2 - -4
Weight: 7 1/4 lbs. (3.5 kg) (with tripod)
Length: 13 3/8" (345 mm)

NIPPON KOGAKU K. K.

SPOTTING TELESCOPES

BINOCULARS

MIKRON
5x15 coated

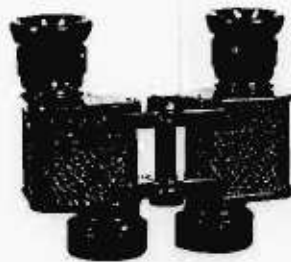
Focusing: Central focusing
Magnification: 5x
Diameter of Objective: 15 mm
Field of View: 9°30'
Exit Pupil: 3 mm
Relative Brightness: 9
Weight: 1 1/4 lbs. (120 gr.)
Height: 2" (50 mm)
Width: 4" (102 mm)



NIPPON KOGAKU K. K.

VISTA
6x15 coated

Focusing: Individual focusing
Magnification: 6x
Diameter of Objective: 15 mm
Field of View: 8°5'
Exit Pupil: 2.5 mm
Relative Brightness: 6.25
Weight: 3/8 lbs. (175 gr.)
Height: 3" (75 mm)
Width: 3 3/8" (99 mm)



OKAYA OPTICAL CO., LTD.

COMET
6x15 coated

Focusing: Individual focusing
Magnification: 6x
Diameter of Objective: 15 mm
Field of View: 7°
Exit Pupil: 2.5 mm
Relative Brightness: 6.25
Weight: 3/8 lbs. (150 gr.)
Height: 1 3/8" (49 mm)
Width: 1 1/4" (32 mm)



TOA OPTICAL CO., LTD.

MIKRON
6×18 coated



Focusing	Central focusing
Magnification	6 X
Diameter of Objective	18 mm
Field of View	7°
Exit Pupil	3 mm
Relative Brightness	9
Weight	3½ lbs. (160 gr.)
Height	2½" (74 mm)
Width	4" (102 mm)

NIPPON KOGAKU K. K.

JUPITER
6×25 coated



Focusing	Central focusing
Magnification	6 X
Diameter of Objective	25 mm
Field of View	11°
Exit Pupil	4.1 mm
Relative Brightness	17
Weight	1¾ lbs. (360 gr.)
Height	2¾" (66 mm)
Width	4½" (114 mm)

ASAHI OPTICAL CO., LTD.

MIKRON
6×30 coated



Focusing	Central focusing
Magnification	6 X
Diameter of Objective	30 mm
Field of View	6° 00'
Exit Pupil	5 mm
Relative Brightness	25
Weight	11½ lbs. (460 gr.)
Height	4½" (114 mm)
Width	6¼" (173 mm)

NIPPON KOGAKU K. K.

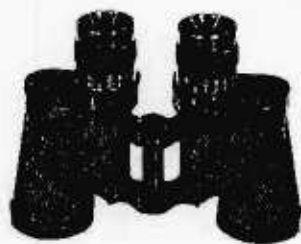
MAGNA
6×30 coated



Focusing	Individual focusing
Magnification	6 X
Diameter of Objective	30 mm
Field of View	8°
Exit Pupil	5 mm
Relative Brightness	25
Weight	1¾ lbs. (632 gr.)
Height	4¼" (119 mm)
Width	6½" (165 mm)

TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

MAGNA
6×30 coated



Focusing	Individual focusing
Magnification	6 X
Diameter of Objective	30 mm
Field of View	8° 30'
Exit Pupil	5 mm
Relative Brightness	25
Weight	1¾ lbs. (635 gr.)
Height	4¾" (121 mm)
Width	6½" (166 mm)

TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

MIKRON
7×15 coated



Focusing	Central focusing
Magnification	7 X
Diameter of Objective	15 mm
Field of View	8°
Exit Pupil	2.1 mm
Relative Brightness	6.4
Weight	1½ lbs. (170 gr.)
Height	3½" (84 mm)
Width	4" (101 mm)

NIPPON KOGAKU K. K.

COMET
7×18 coated

Focusing: Central focusing
Magnification: 7×
Diameter of Objective: 18 mm
Field of View: 7°
Exit Pupil: 2.57 mm
Relative Brightness: 6.8
Weight: 1½ lbs. (225 gr.)
Height: 2¼" (58 mm)
Width: 1¾" (40 mm)



TOA OPTICAL CO., LTD.

MEIJI
7×23 coated

(Extra wide field)
Focusing: Central focusing
Magnification: 7×
Diameter of Objective: 23 mm
Field of View: 9.5° (500 feet at 1000 yard)
Exit Pupil: 3.3 mm
Relative Brightness: 10.9
Weight: 1½ lbs. (320 gr.)
Height: 3¼" (82 mm)
Width: 4¾" (110 mm)



MEIJI SEIKO CO., LTD.

COMET
7×25 coated

Focusing: Individual focusing
Magnification: 7×
Diameter of Objective: 25 mm
Field of View: 10°
Exit Pupil: 3.57 mm
Relative Brightness: 12.75
Weight: 1½ lbs. (400 gr.)
Height: 3¼" (80 mm)
Width: 2½" (55 mm)



TOA OPTICAL CO., LTD.

B I N O C U L A R S

PEAFOWL
7×35 coated

(Wide angle)
Focusing: Central focusing
Magnification: 7×
Diameter of Objective: 35 mm
Field of View: 10.5°
Exit Pupil: 5 mm
Relative Brightness: 25
Weight: 1¾ lbs. (850 gr.)
Height: 5" (128 mm)
Width: 7¼" (185 mm)



ABA KOGAKU KOGYO CO., LTD.
(Address.....Page 111)

PROMINAR
7×35 coated

(Wide angle)
Focusing: Central focusing
Magnification: 7×
Diameter of Objective: 35 mm
Field of View: 10°
Exit Pupil: 5 mm
Relative Brightness: 25
Weight: 1¾ lbs. (790 gr.)
Height: 5¼" (133 mm)
Width: 7½" (190 mm)



KOFUKU SANGYO CO., LTD.
KOWA OPTICAL WORKS.

MIKRON
7×35 coated

Focusing: Central focusing
Magnification: 7×
Diameter of Objective: 35 mm
Field of View: 7°8'
Exit Pupil: 5 mm
Relative Brightness: 25
Weight: 1½ lbs. (500 gr.)
Height: 5¼" (140 mm)
Width: 7¼" (180 mm)



NIPPON KOGAKU K. K.

OFUNA
7 × 35 coated



B & K type. Extra wide angle leather weight.
 Focusing: Central focusing
 Magnification: 7x
 Diameter of Objective: 35 mm
 Field of View: 10°
 Exit Pupil: 5 mm
 Relative Brightness: 25
 Weight: 1¹/₂ lbs. (880 gr.)
 Height: 4¹/₂" (125 mm)
 Width: 7¹/₂" (200 mm)

OFUNA OPTICAL INSTRUMENT
MFG. CO., LTD.

PEAFOWL
7 × 50 coated



Focusing: Central focusing
 Magnification: 7x
 Diameter of Objective: 50 mm
 Field of View: 7° 1'
 Exit Pupil: 7.14 mm
 Relative Brightness: 51
 Weight: 2¹/₄ lbs. (1000 gr.)
 Height: 6¹/₂" (175 mm)
 Width: 7¹/₂" (200 mm)

FUTABA KOGAKU KOGYO CO., LTD.
(Address page 111)

LICHTER
7 × 50 coated



Focusing: Individual focusing
 Magnification: 7x
 Diameter of Objective: 50 mm
 Field of View: 7° 1'
 Exit Pupil: 7.14 mm
 Relative Brightness: 51
 Weight: 2¹/₄ lbs. (995 gr.)
 Height: 6¹/₂" (170 mm)
 Width: 7¹/₂" (200 mm)

KUROKI OPTICAL INSTRUMENT
CO., LTD.

MIKRON
7 × 50 coated

Focusing: Central focusing
 Magnification: 7x
 Diameter of Objective: 50 mm
 Field of View: 7° 16'
 Exit Pupil: 7.1 mm
 Relative Brightness: 50.4
 Weight: 2¹/₄ lbs. (950 gr.)
 Height: 7¹/₂" (184 mm)
 Width: 7¹/₂" (200 mm)



NIPPON KOGAKU K. K.

COMET
7 × 50 coated

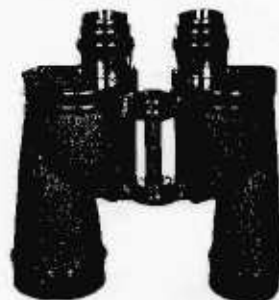
Focusing: Individual focusing
 Magnification: 7x
 Diameter of Objective: 50 mm
 Field of View: 7° 1'
 Exit Pupil: 7.14 mm
 Relative Brightness: 51
 Weight: 1¹/₂ lbs. (900 gr.)
 Height: 7¹/₂" (180 mm)
 Width: 7¹/₂" (200 mm)



TOA OPTICAL CO., LTD.

MAGNA
7 × 50 coated

Focusing: Individual focusing
 Magnification: 7x
 Diameter of Objective: 50 mm
 Field of View: 7° 16'
 Exit Pupil: 7.14 mm
 Relative Brightness: 51
 Weight: 2¹/₄ lbs. (920 gr.)
 Height: 7¹/₂" (184 mm)
 Width: 7¹/₂" (200 mm)



TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

MAGNA
7×50 coated



Focusing	Individual focusing
Magnification	7×
Diameter of Objective	50 mm
Field of View	7° 6'
Exit Pupil	7.14 mm
Relative Brightness	51
Weight	2 1/4 lbs. (1,000 gr.)
Height	6 1/2" (173 mm)
Width	7 1/2" (200 mm)

TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

ZUIHO
7×50 coated



Focusing	Individual or Central focusing
Magnification	7×
Diameter of Objective	50 mm
Field of View	7° 11'
Exit Pupil	7.14 mm
Relative Brightness	51
Weight	2 1/4 lbs. (1,000 gr.)
Height	7 1/2" (175 mm)
Width	8" (205 mm)

ZUIHO OPTICAL INSTRUMENT CO., LTD.
(Address.....page 102)

MIKRON
8×30 coated



Focusing	Central focusing
Magnification	8×
Diameter of Objective	30 mm
Field of View	8° 30'
Exit Pupil	3.75 mm
Relative Brightness	14.1
Weight	1 1/4 lbs. (480 gr.)
Height	4 1/2" (114 mm)
Width	6 1/4" (166 mm)

NIPPON KOGAKU K. K.

BINOCULARS

MAGNA
8×30 coated



Focusing	Individual focusing
Magnification	8×
Diameter of Objective	30 mm
Field of View	7° 30'
Exit Pupil	3.75 mm
Relative Brightness	14.1
Weight	1 1/4 lbs. (566 gr.)
Height	4 7/8" (113 mm)
Width	6" (163 mm)

TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

MAGNA
8×30 coated



Focusing	Central focusing
Magnification	8×
Diameter of Objective	30 mm
Field of View	7° 30'
Exit Pupil	3.75 mm
Relative Brightness	14.1
Weight	1 3/4 lbs. (550 gr.)
Height	4 7/8" (113 mm)
Width	6 1/4" (163 mm)

TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

OFUNA
8×32 coated



B & L type Extra wide angle leather weight	
Focusing	Central focusing
Magnification	8×
Diameter of Objective	32 mm
Field of View	10°
Exit Pupil	4 mm
Relative Brightness	16
Weight	1 1/4 lbs. (890 gr.)
Height	4 7/8" (125 mm)
Width	7 1/4" (200 mm)

OFUNA OPTICAL INSTRUMENT
MFG. CO., LTD.

MIKRON
8×35 coated



Focusing: Central focusing
Magnification: 8x
Diameter of Objective: 35 mm
Field of View: 7°
Exit Pupil: 4.4 mm
Relative Brightness: 19.4
Weight: 1³/₁₆ lbs. (535 gr.)
Height: 5¹/₄" (133 mm)
Width: 7¹/₈" (181 mm)

NIPPON KOGAKU K. K.

MEIBO
8×40 WF coated



Focusing: Individual or central focusing
Magnification: 8x
Diameter of Objective: 40 mm
Field of View: 8°30'
Exit Pupil: 5 mm
Relative Brightness: 25
Weight: 1¹/₂ app 2¹/₈ lbs.
CF app 2¹/₁₆ lbs.
Height: 4¹/₂" (115 mm)
Width: 6¹/₂" (166 mm)

FUJI PHOTO FILM CO., LTD.
(Address.....Page 96)

MIKRON
8×50 coated

Focusing: Central focusing
Magnification: 8x
Diameter of Objective: 50 mm
Field of View: 7°
Exit Pupil: 6.25 mm
Relative Brightness: 39.1
Weight: 2¹/₈ lbs. (965 gr.)
Height: 7" (178 mm)
Width: 7¹/₂" (200 mm)



NIPPON KOGAKU K. K.

MIKRON
9×35 coated

Focusing: Central focusing
Magnification: 9x
Diameter of Objective: 35 mm
Field of View: 7°20'
Exit Pupil: 3.9 mm
Relative Brightness: 15.2
Weight: 1¹/₂ lbs. (515 gr.)
Height: 5¹/₄" (133 mm)
Width: 6³/₈" (174 mm)



NIPPON KOGAKU K. K.

MEIJI
10×30 coated

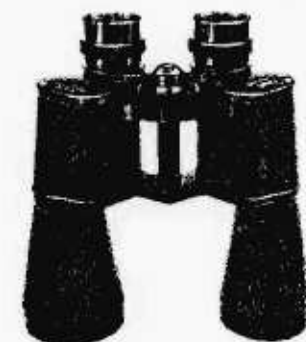
(Extra wide field)

Focusing: Central focusing
Magnification: 10x
Diameter of Objective: 30 mm
Field of View: 6.5° (340 feet
at 1000 yard)
Exit Pupil: 3 mm
Relative Brightness: 9
Weight: 3/4 lbs. (350 gr.)
Height: 4³/₄" (120 mm)
Width: 4³/₈" (110 mm)



MEIJI SEIKO CO., LTD.

PEAFOWL
10×50 coated



Focusing: Central focusing
Magnification: 10x
Diameter of Objective: 50 mm
Field of View: 5°
Exit Pupil: 5 mm
Relative Brightness: 25
Weight: 1¹/₂ lbs. (750 gr.)
Height: 6³/₄" (169 mm)
Width: 7¹/₂" (184 mm)

FUTABA KOGAKU KOGYO CO., LTD.
(Address.....Page 111)

MAGNA
10×50 coated

Extra wide field

Focusing:	Individual focusing
Magnification:	10×
Diameter of Objective:	50 mm
Field of View:	7° 5'
Relative Brightness:	25
Weight:	2 1/8 lbs. (1280 gr.)
Height:	6 3/4" (175 mm)
Width:	7 7/8" (200 mm)



TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

PROMINAR
20×60 coated

Focusing:	Central focusing
Magnification:	20×
Diameter of Objective:	60 mm
Field of View:	3° 30'
Exit Pupil:	3 mm
Relative Brightness:	9
Weight:	3 lbs. (1360 gr.)
Height:	8 3/4" (222 mm)
Width:	8" (203 mm)



KOFUKU SANGYO CO., LTD.
KOWA OPTICAL WORKS

OFUNA
20×60 coated



Focusing:	Central focusing
Magnification:	20×
Diameter of Objective:	60 mm
Field of View:	3.5°
Exit pupil:	3 mm
Relative Brightness:	9
Weight:	3 lbs. (1320 gr.)
Height:	9" (230 mm)
Width:	8" (200 mm)

OFUNA OPTICAL INSTRUMENT
MFG. CO., LTD.

BINOCULARS OPERA GLASSES

MEIBO
3× coated



Focusing:	Central focusing
Magnification:	3×
Diameter of Objective:	30 mm
Field of View:	10°
Weight (with case):	5/8 lbs. (275 gr.)
Height:	2 1/4" (57 mm)
Width:	1 1/4" (40 mm)

TD. FUJI PHOTO FILM CO., LTD.
(Address.....Page 96)

VISTA
2.5×24.5 coated



Focusing:	Central focusing
Magnification:	2.5×
Diameter of Objective:	24.5 mm
Field of View:	5°
Relative Brightness:	96.04
Weight:	1/4 lbs. (125 gr.)
Height:	1 5/8" (43 mm)
Width:	3 3/8" (90 mm)

OKAYA OPTICAL CO., LTD.

ROBIN
3× coated



Focusing:	Central focusing
Magnification:	3×
Diameter of Objective:	26 mm
Field of View:	13°
Weight:	3/8 lbs. (129 gr.)
Height:	1 5/8" (49 mm)
Width:	3 3/8" (97 mm)

TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

PRIDE
2.5x coated



Focusing: Central focusing
 Magnification: 2.5 X
 Diameter of Objective: 24.5 mm
 Field of View: 5°
 Weight: 5/8 lbs. (113 gr.)
 Height: 1 3/8" (42 mm)
 Width: 3 3/8" (90 mm)

TOKYO OPTICAL CO., LTD.
(TOKYO KOGAKU KIKAI K. K.)

GIANT TURTLE



Shinko Collapsible Opera Glass
(Patented)

Magnification: 5 X
 Aperture of Objective: 34 mm
 Measurement:
 Length: 3 1/8" (79.5 mm)
 Width: 5" (127.5 mm)
 Thickness: 7/8" (22.0 mm)
 Weight: 9/16 lbs. (260 gr.)
 Specifications:
 Body finished with goat-hide.
 Colour:
 Black, Brown, Tan, Green, Navy & Red.

SHINKO SEISAKUSHO, INC.

TURTLE



Shinko Collapsible Opera Glass
(Patented)

Magnification: 3.5 X
 Aperture of Objective: 26 mm
 Measurement:
 Length: 2 3/4" (60 mm)
 Width: 4 3/8" (110 mm)
 Thickness: 5/8" (17 mm)
 Weight: 3/8 lbs. (160 gr.)
 Specifications:
 Body finished with goat-hide.
 Colour:
 Black, Brown, Tan, Green, Navy & Red.

SHINKO SEISAKUSHO, INC.

OPERA GLASSES

TURTLE JUNIOR

Shinko Collapsible Opera Glass
(Patented)

Magnification: 3 X
 Aperture of Objective: 24 mm
 Measurement:
 Length: 2 3/4" (60 mm)
 Width: 4 3/8" (110 mm)
 Thickness: 5/8" (17 mm)
 Weight: 3/8 lbs. (140 gr.)
 Specifications:
 Body finished with pig-skin.
 Colour:
 Black, Brown, Tan, Green, Navy & Red.



SHINKO SEISAKUSHO, INC.

CANON SYSTEM OF PHOTOGRAPHY IN STILL & MOTION



**GUARANTEED
FOR
FIVE YEARS !**



TRIGGER-Wind Canon Camera, Model VT de luxe Features :

1. Fastest Operation—single-stroke trigger advances film, cocks shutter, counts exposures in one operation!
2. Rapid Rewind Crank—rewinds film in less than 20 seconds!
3. Exclusive Tri-Position Viewfinder—50mm, 33mm, RF; the most needed settings!
4. Unique Automatic Built-In Parallax Compensation—for auxiliary viewfinder!
5. Built-in Self-Timer!
6. Improved Flash Contact—free! accessory clip!
7. Accurate Focal Plane Shutter—speeds to 1/1000 second!
8. Flash Synchronization—complete for all types of flash; 1 to 1/1000 sec!
9. Fool-Proof Hinged-Back Loading—faster, easier!
10. Screw-In Lens Mounts—finest method devised!
11. Single-Window Range-Viewfinder—big, bright, accurate images!
12. Alternate Film and Shutter Wind Knob—lifts up when needed!
13. Slow Speed Dial—speeds to 1 sec!
14. Single-Glance Film Counter!

LEVER-wind Model L₁ is also available. It has a winding lever instead of the rapid-wind trigger and no built-in self-timer but has all the other features of the Model VT de luxe.

8mm Cine Camera, Model 8-T Features :

1. Easy Spool Loading—25 feet of "Double-8" film!
2. Exclusive Tri-Position Real Image Viewfinder with Built-In Transparent Variable Sports Finder Screen—covers wide range of 6.5mm, 13mm, 25mm, 38mm, 50mm and 75mm lenses, assures accurate, easy composition!
3. Brilliant Wide-Screen Frame for Canonoscope Lens—1 to 2.66 screen image ratio!
4. Unique Built-In Automatic Parallax Compensation—18 inches to infinity!
5. Sturdy Twin-Turret Lens Flange and Exclusive Canon Bayonet Lens Mount—for rapid lens changes!
6. Through-the-Lens Focusing—permits super-critical work, preview of depth-of-field as well as subject composition!
7. Powerful Spring-Driven Motor, Back-and-Forth Winding—no need of releasing hand from winding key!
8. Accurate, Reliable Shutter—operates at 16, 24, 32, 48 and 64 frames per second!
9. Unique Shutter Lever—moves down for continuous run, up for single frame exposure; accidental tripping prevented by locking knob!
10. Automatic Footage Counter—single-glance dial and audible ticks at every black run!
11. Unique Design—shaped to sit cozily in palms; all controls conveniently concentrated!
12. Interchangeable Eyepiece—to suit individual eyesight!

ALL THESE FEATURES in a TRIM, HANDSOME BODY!

Canon

CANON CAMERA CO., INC. TOKYO-NEW YORK

WORLD'S FIRST

Single Lens Reflex with
photographic "follow-through"!



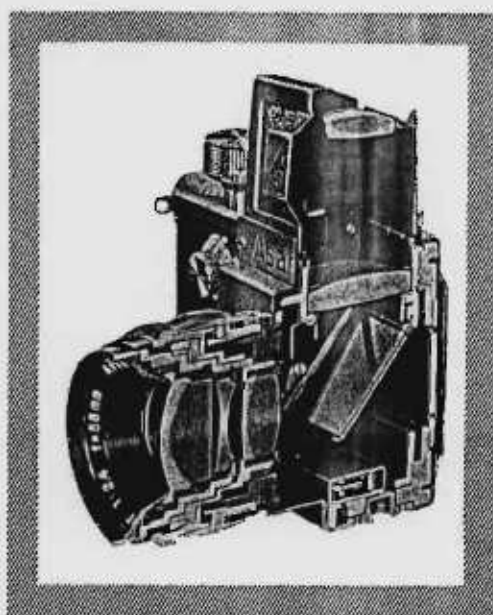
Asahiflex

ASAHI-FLEX ends the ground-glass black-out which limits every other single lens reflex system.....ends the need to cock your shutter in order to again see the subject!.....ends the controversy of single lens reflex versus range finder camera! With ASAHI-FLEX you have every advantage of the single lens reflex system of photography *without* the frustrating "blindness" of a suddenly-dark ground glass. With ASAHI-FLEX you have every advantage of the twin lens reflex system *without* parallax! Only ASAHI-FLEX has photographic "follow through"!

OTHER ASAHI-FLEX FEATURES INCLUDE:

- eye-level viewfinder for candid and sports action
- waist-level ground glass with built-in magnifier for studied composing
- focal plane speeds from 1/2 to 1/500, T, B; FP and X flash synchronization
- choice of coated, color-corrected 5-element, 58mm f 2.4 lens or 4-element 50mm f 3.5 lens
- pre-set diaphragm adjustment
- complete system of interchangeable lenses from 50mm to 500mm
- complete system of accessories for close-up, macro, micro and even X-ray photography

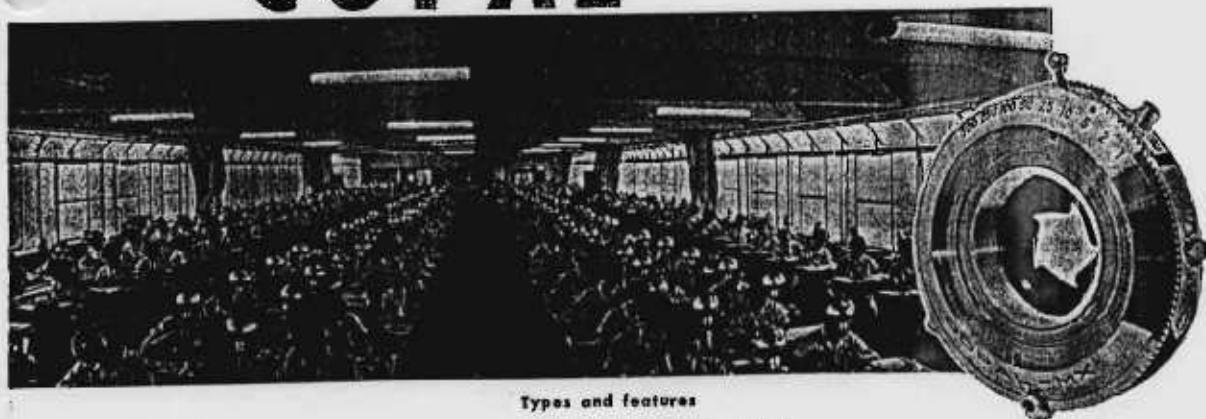
Available in photographic stores everywhere. For further information, write to:



Manufactured by: **Asahi Optical Co., Ltd.** Yoshizawa Bldg., 3 Ginza 8-chome, Chuo-ku, Tokyo.

Specialized Shutter Plant in Japan

COPAL



Types and features

1. **Copal MX shutter.**
#00, 5 blades of sector, 9 speeds from 1 to 1/500 and B, MX synchronization, built-in self timer.
2. **Copal MX shutter.**
#00, 5 blades of sector, 8 speeds from 1 to 1/300 and B, MX synchronization, built-in self timer.
3. **Copal shutter.**
#00, 5 blades of sector, 8 speeds from 1 to 1/300, and B, X-synchronization, built-in self timer.

4. **Copal shutter.**
#00, 5 blades of sector, speed range 1/10 to 1/300 and B, X-synchronization, built-in self timer (or without self timer).
5. **Copal shutter.**
#0, 5 blades of sector, 8 speeds from 1 to 1/300 and B, X-synchronization, built-in self timer.

All types of Copal shutter above are of Prontor type. But there's hope that New Copal Type shutter will be created in near future.

COPAL KOKI CO., LTD. TOKYO, JAPAN.

2-25 SHIMURA-MACHI, ITABASHI-KU, TOKYO, JAPAN TEL. (90) 1101~9

THE FINEST PRISMATIC BINOCULARS



LICHTER

16×50,	12×50,	10×50,
7×50,	7×35,	8×30,
6×30,	7×18,	6×18.

Type: Individual or Central Focusing



KUROKI OPTICAL INSTRUMENT CO., LTD.

No. 1088, Shimura-moen-cho, Itabashi-ku, Tokyo Tel. (96) 1051, 0885~4

Cable Address "BLACKWOOD"

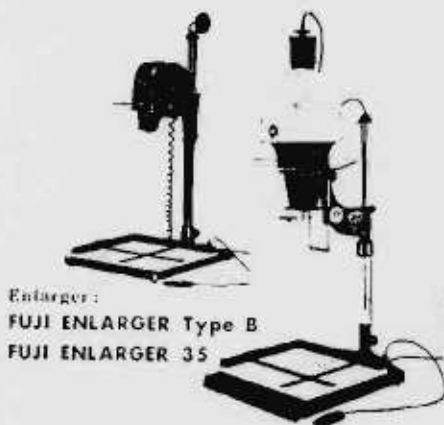
IDEAL FILMS FOR IDEAL PICTURES

FUJI PHOTO FILM CO., LTD. supplies all kinds of photographic materials & equipment.



Film: for general use
for cine use
for radiograph use
and others

Photographic paper:
for contact print
for enlarging
Photographic chemical



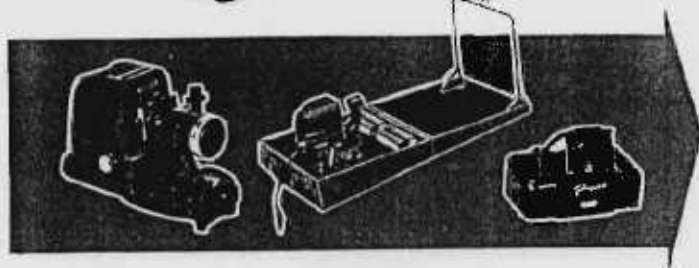
Enlarger:
FUJI ENLARGER Type B
FUJI ENLARGER 35



Lens: FUJINON
f/1.2 50mm
f/3.0 35mm
f/3.0 100mm

Camera: Super Fujica-M

Binocular: Meibo
6 x 35 7 x 35 7 x 50
8 x 35 8 x 40 10 x 50
12 x 50



Slide projector
BIRDIE Type II
BIRDIE KIT

Slide viewer
PIPIT

FUJI PHOTO FILM CO., LTD.

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FUTABA BINOCULARS !!

FAMOUS
IN
THE WORLD !!

Peafowl



Bausch & Lomb Type 7x35
Field 10.5° (10°~11°)

FUTABA'S binoculars are always used one of above factory number, otherwise we are unable to have responsibility.

Beside of above trade mark, "Peafowl", we are always ready to accept any other marks with your option.

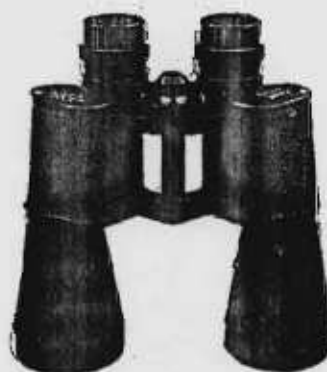
Production of Automation system, every each part is carefully selected with skillful engineers, and supplying guaranteed quality with careful concentration of lower price for keen market competition.



Zeiss Type 7x50

Monthly production: 5,000 pairs in various assort.
Annual production: 60,000 pairs including Magneclium binoculars.

WELCOME, your active inquiries for our promptest service, ready to send pamphlets and information.



Long Leg Type 10x50

Following models available, both of Individual focus & center focus.

	Zeiss Type and Bausch & Lomb Type											Long Legs Type				B & L Wide Angle	
	6x30	7x35	7x50	8x30	8x40	8x50	10x50	12x50	16x50	20x50	22x50	10x50	12x50	16x50	20x50	7x35	10x50
Magnification	6x	7x	7x	8x	8x	8x	10x	12x	16x	20x	22x	10x	12x	16x	20x	7x	10x
Dia of objective	30mm	35mm	50mm	30mm	40mm	50mm	50mm	50mm	50mm	50mm	50mm	50mm	50mm	50mm	50mm	35mm	50mm
Field of view	8.0°	7.0°	7.1°	8.0°	6.5°	5.5°	5.5°	5.0°	3.5°	3°	2.5°	5.0°	5.0°	3.5°	3°	10.0°	7.0°
Exit of pupil	5.0mm	5.0mm	7.1mm	3.7mm	5.0mm	5.25mm	5.0mm	4.1mm	3.1mm	2.5mm	2.27mm	5.0mm	4.1mm	3.1mm	2.5mm	5.0mm	5.0mm

Manufacturer

FUTABA KOGAKU KOGYO CO., LTD.

No. 28, 4-chome, Takinogawa, Kita-ku, Tokyo, Japan

Prismatic Binocular **GLORY**

Type: Individual or Central
focusing with coated
lenses

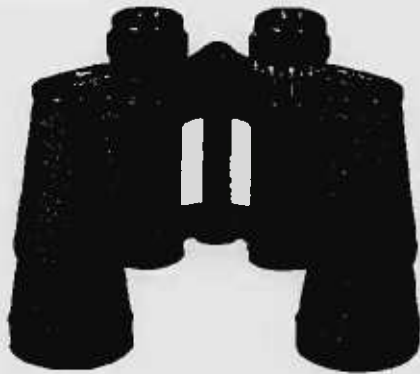
Finest Precision



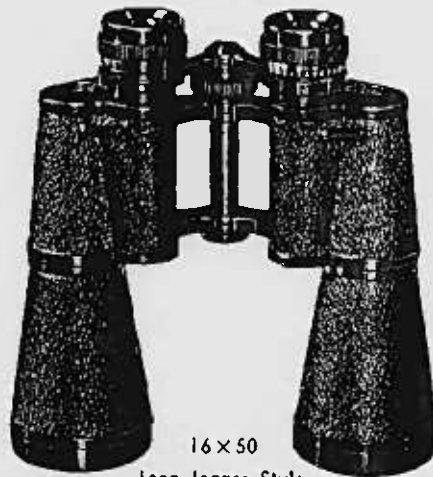
7×35 11°
Bausch & Lomb Wide angle Style



7×50
Bausch & Lomb



10×50 7°
Zeiss Style



16×50
Long Legger Style

The "Glory" binoculars are produced by highly talented technical staff of our company which has 20 years' experiences in the manufacture of optical instruments at the most up-to-date factory installed with modern equipment.

The "Glory" binoculars are shipped out only after they have passed the strict inspection conducted by an authorized inspection agency and have, therefore, acquired excellent reputation in the overseas markets. We are confident that this product will serve to bring about a better sales record for you.

Zeiss Style Bausch & Lomb Style			Bausch & Lomb Wide Angle Style	
8×25	6×30	8×30	7×35	11°
7×35	9×35	8×40	6×30, 8×30	9°
7×50	8×50	10×50		
12×50	16×50	18×50		
20×50	20×60			
"Long Legger" Style				
7×50	10×50	12×50		
16×50	18×50	20×50		

*Catalogue
sent on Request*

KATSUMA OPTICAL CO., LTD.

Head Office & First Factory :

No. 28, 3-chome, Tokiwado, Itabashi-ku, Tokyo, Japan Tel. Itabashi (96) 1921, 3517, 3445, 7033

Second Factory :

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World Famous Prominar Optics; Projection Lenses, Anamorphic Lenses, Binoculars, Rifle Scopes, Spotting Scopes, and Cameras.



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Most Efficient Snap Camera with Wide Angle Lens; Prominar 1:2.8, F=35mm., 6-elements.

Prominar 1 3.5 75mm **KALLOFLEX**

KALLOFLEX Automat is The Most Unique Twin-lens Reflex Camera, Speedy Operation, Scientific Precision, Sensational Lens Resolution. The Resolution Power of Prominar 1:3.5, F=75mm., is 125 Lines Per mm.



Prominar **ANAMORPHIC**

Cylindrical Anamorphic Attachment for Standard Cine and 8m/m - 16m/m Home Movie. Prominar Anamorphic-8 and -16 are The Dual Lens-Taking and Projecting 8m/m - 16m/m Movie into Cinemascope.



Prominar **BABY-SCOPE**

15cm Range Finder (Gaffer's Scope)
Type: Double image coincidence type.
Base Length: 150mm.
Effective Base Length: 570mm.
Measuring Range: 60-200yds.
Magnification: 3.8x
Field of View: 4°



Prominar **BINOCULARS**

All Models are American Type with Feather-weight (Magnesium) Body or Light-weight (Aluminum) Body and Central or Individual focusing.



Kowa

KOFUKU SANGYO CO., LTD. OPTICAL DEPT.
KOWA OPTICAL WORKS

Asahimachi Nagoya, Japan



NIKON 52 Camera



MIKRON
Binoculars

POINTAL Ophthalmic Lens



NIKKOR Interchangeable Lens



Observation Binoculars



CINE-NIKKOR
8 mm and 16 mm Cine-Camera Lens



PRO-NIKKOR
35 mm Cine-Projector
Lens

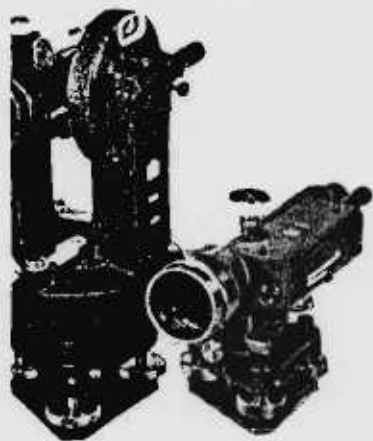


NIPPON KOGAKU'S

er the entire field of Optical Instruments



SHADOWGRAPH
Contour Projector

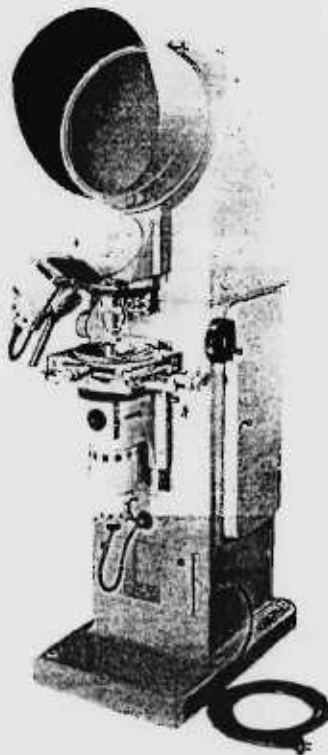


Transit

Level



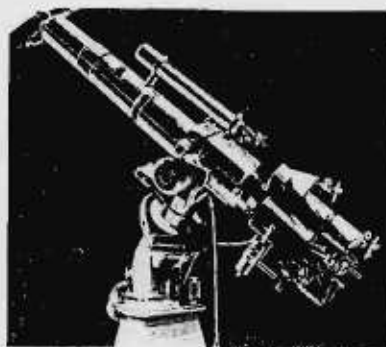
APO-NIKKOR
Photo-Engraving Lens



Microscope



DIOPTOMETER
Vertex Focometer



Astronomical Telescope



OFUNA OPTICAL INSTRUMENT MFG. CO., LTD.

CINE-OFUNA for 8 mm CINE-CAMERA : "D" mount



f 1.9 Telephoto Lens f 1.9 Standard

Focal Length	Aperture Ratio	Focus Range	Lens Elements
6.5 mm	f 1.9 to 16	Fixed Focus	8
13 mm	f 1.9 to 16	1' - ∞	4
38 mm	f 1.9 to 16	1.5' - ∞	5
6.5 mm	f 1.4 to 16	Fixed Focus	9
13 mm	f 1.4 to 16	1' - ∞	5
38 mm	f 1.4 to 16	1.5' - ∞	6

BINOCULAR & OPERA GLASS :



8 x 32 B & L type, C.F.C.
EXTRA WIDE ANGLE,
Featherweight.



3 x Flat type, C.F.C.
Opera glass.

E-OFUNAR ENLARGER LENSES :



1 : 3.5 (7.5 cm) 1 : 3.5 (5 cm)
(3 elements) (4 elements)

Bore Scopes.

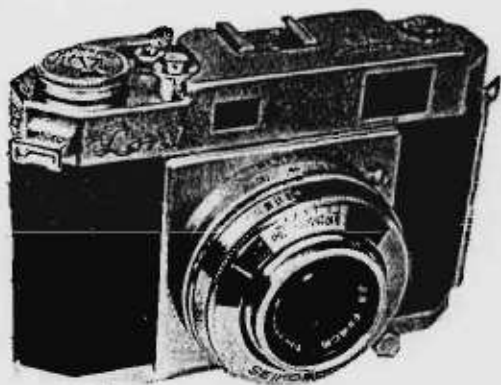
Camera.

Projector Lens.

Observing and Sighting
Optical Equipments.

OFUNA OPTICAL INSTRUMENT MFG. CO., LTD.

Head Office
and Factory : No. 659, Dai, Kamakura-city,
Kanagawa-pref.
Tel. No. : 2161/3, Ofuna.



Lord 35 IV B
Highkor F 2.8 40m m

Lord 35 IV A
Highkor F 3.5 40m m



Vista Rifle Scopes

2.5x
4x
6x



Vista Binocular
6x15



Vista Opera Glass
2.5x

Export Agents

HATTORI

TRADING CO., LTD.

**GINZA, TOKYO,
JAPAN**

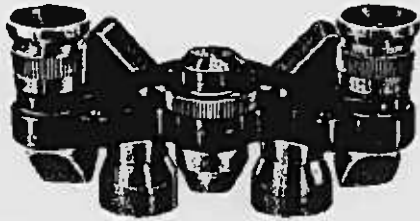


Vista Binoculars

8x30 I.F.C.F.
6x30 I.F.C.F.

Manufacturer **OKAYA OPTICAL CO., LTD.**
GINZA, TOKYO, JAPAN

TRADE **PLUM** MARK



PLUM Micro Binocular

6 × 15
6 × 18
7 × 15
7 × 18 I.F.C. & C.F.C.
8 × 20
9 × 20
10 × 20



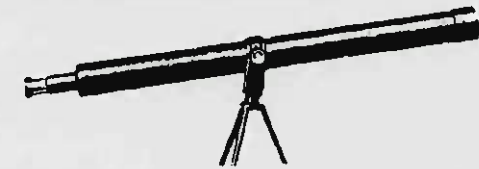
PLUM Riflescope

No adjustment
Elevation
Elevation and windage



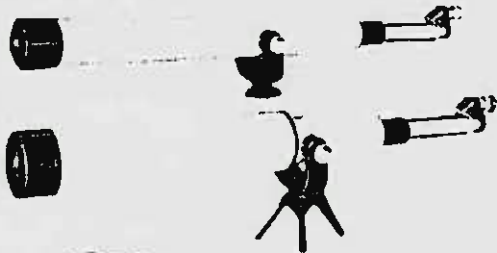
PLUM Telescope

50 × 40
Serving both as 50 × and 30 ×
25 × 50
Serving both as 25 × and 20 ×



PLUM Spotting scope

10 × 20
20 × 40 Employ the 90°-prism
30 × 60
30 × 60 Employ the Roof-prism
50 × 40
50 × 50 P.T.S.



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**FINEST COLLAPSIBLE SPORT GLASSES
AND
PRISMATIC SPECS**

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TURTLE A 3.5 x 26 mm (Patented)



EYE-AIDS (Patented)



GIANT TURTLE 5 x 34 mm (Patented)



TURTLE JUNIOR 3 x 24 mm (Patented)

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TEL: (70) 3050, 3476

Eye-aids



SHOWA OPTICAL CO., LTD.

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Manufacturer & Exporter

ORIENT BINOCULARS

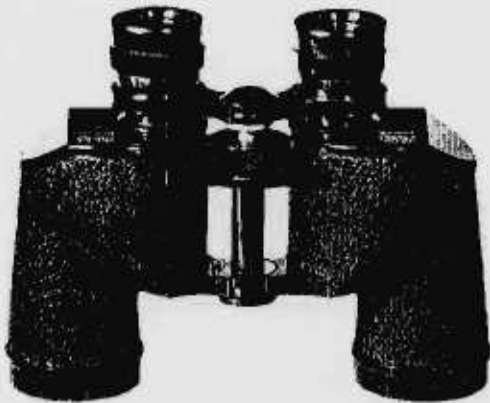
**PATENTED
ORIENT TYPE**



7 × 35 mm

7 × 40 mm

8 × 40 mm



BAUSCH & LOMB TYPE

7 × 35 mm

7 × 40 mm

8 × 40 mm

10 × 40 mm

**INDUSTRIAL
PERISCOPES
FOR ISOTOPE
TREATMENT**



ZUIHO



TRADE MARK

PRISM BINOCULARS

Zeiss Type or Bausch & Lomb Type and Control Focus or Individual Focus

6 x 30, 8 x 30, 7 x 35, 8 x 40,

7 x 50, 10 x 50, 12 x 50

Special Wide Angle Binoculars

Opera Glasses (2.5 x 7.6,

3 x 26, 3.5 x 26)

Var. Power Telescopes



CAMERAS

HONOR 35" Leica Type 35 mm. Camera

Lens: HIKAR F 3.5 50 mm. coated

Shutter: focal plane shutter, 11 Speeds from 1 to 1/1000, incl. " and B

Special Features: Built-in TLR synchronization, interchangeable lens, completely removable back plate.



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MICROSCOPES

Model ZK-M 1300

.. ZK 1500

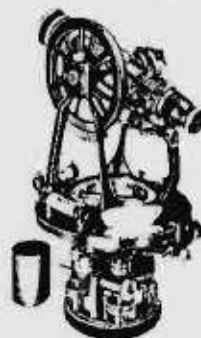
.. ZN 900

.. ZA 600

GUNSCOPES

2.5 x 28 mm, 4 x 28 mm,

6 x 28 mm. Tube dia. 1 inch



6-inch Transit

5

4

18-inch Dumpy Level

15

12

15-inch Wye Level

12

MANUFACTURERS & EXPORTERS

ZUIHO OPTICAL INSTRUMENT CO., LTD.

OFFICE: No. 7, 3-chome, Kyobashi, Chuo-ku, Tokyo, Japan.
Tel.: (56) 0603, 8098.

Cable Address: "ZUIOPTIC" TOKYO

FACTORY: No. 519, Nishi-chiai, 2-chome, Shinjuku-ku, Tokyo, Japan.
Tel.: (95) 5815, 6411.