

Guide Book
of
JAPANESE
OPTICAL
AND
PRECISION
INSTRUMENTS

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1961-62

1961

1962

35mm CAMERA

CANON P

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Canon Lens 50 mm 1:1.4 coated. Interchangeable screw-mount.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec. & B. automatic synchro-flash timing for FP, M.F. bulbs and speedlight, built-in selftimer.

Focusing: Coupled range-viewfinder with single-eyepiece.

Exposure Control: Clip-on exposure meter couples to shutter speed dial, functions for LV 4-19 (ASA 100).

Other Features: Viewfinder provides 3 bright frames for 35, 50 and 100 mm lenses, life-size image and automatic parallax corrections; single-stroke film advance and shutter wind lever; metal focal-plane shutter curtain and single non-rotating speed dial; film warping and curling prevention device on the pressure plate; auto-reset exposure counter; complete line of Canon lenses and accessories available. Size: $2\frac{3}{8} \times 5\frac{3}{8} \times 1\frac{1}{2}$ " (76x143x34 mm). Weight: 1 $\frac{1}{4}$ lbs (570 g).

CANON CAMERA CO., INC.



35mm CAMERA



NIKON SP

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Nikkor 1:1.1 f=50 mm, 1:1.4 f=50 mm or 1:2 f=50 mm, coated lenses with interchangeable bayonet mount.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec. B & T, Time-lag for FP, M.F. and X flash synchronization selected by color coded synchro selector, built-in selftimer.

Focusing: Coupled range-viewfinder with single-eyepiece.

Exposure Control: Clip-on exposure meter couples to shutter speed, functions with film exposure index ASA 6-4000.

Other Features: Built-in universal viewfinder system for six interchangeable lenses from 28 mm to 135 mm focal lengths, bright frame line; life-size image and automatic parallax corrections for 50-135 mm lenses; single stroke film advance and shutter wind lever; single non-rotating shutter speed dial; auto-reset exposure counter; film lead and film speed indicator; complete line of Nikkor lenses and accessories available. Size: $3\frac{1}{8} \times 5\frac{3}{8} \times 2\frac{3}{4}$ " (80x145x70 mm). Weight: 1 $\frac{1}{2}$ lbs (730g).

NIIPPON KOGAKU K.K.

35mm CAMERA



CANONET

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Canon SE 45 mm 1:1.9 coated lens.

Shutter: Copal SV shutter with speeds from 1 to $\frac{1}{500}$ sec., B & T, M.X flash synchronization, built-in selftimer.

Focusing: Coupled range-viewfinder with single-eyepiece.

Exposure Control: Fully automatic exposure control by built-in exposure meter, functions for LV 5-17 using ASA 100 film, automatic filter compensation, and manual control available.

Other Features: Single-stroke trigger-action winding lever on the base plate, automatic safety device; automatic resetting exposure counter. Size: $3\frac{1}{8} \times 5\frac{3}{8} \times 1\frac{1}{4}$ " (78x140x31 mm). Weight: 1 $\frac{1}{2}$ lbs (700 g).

CANON CAMERA CO., INC.

35mm CAMERA



MINOLTA UNIMAT

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Rokkor TD 1:2.8 f=45 mm coated lens.

Shutter: Optiplex Uni-Citizen shutter with speeds from $\frac{1}{4}$ to $\frac{1}{1000}$ sec. & B, EV scale, M.X flash synchronization, built-in selftimer.

Focusing: Coupled range-viewfinder with single-eyepiece.

Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators on top of camera housing; functions with film exposure index from ASA 7 to 1600, controlled by single ring.

Other Features: Lever for film advance and shutter cocking; finder with albedo type bright frame line and parallax correction mark; simplified flash exposure calculator; automatic resetting exposure counter. Size: $3\frac{1}{8} \times 5\frac{3}{8} \times 2\frac{1}{4}$ " (80x137x73 mm). Weight: 1 $\frac{1}{2}$ lbs (710 g).

CHIYODA KOGAKU SEIKO K.K.

35mm CAMERA

KONICA S

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Hexanon 1: 1.8 f=48 mm coated lens.
 Shutter: Copal SV shutter with speeds from 1 to 1/250 sec. & B, M.X flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators on top of camera housing, functions for EV 6-17 with ASA 100.
 Other Features: Single-stroke lever for shutter advance and shutter cocking; finder with illuminated bright frame line and automatic parallax compensation; automatic resetting film rewind button and exposure counter.
 Size: 3 1/4 x 3 3/4 x 2 1/4" (132 x 85.5 x 72 mm)
 Weight: 2 3/4 lbs (990 g)

KONISHIROKU PHOTO IND. CO., LTD.



35mm CAMERA



KONICA J

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Hexar K 1: 2.8 f=45 mm lens, hard amber-coated.
 Shutter: Seikosa shutter with speeds from 1/15 to 1/500 sec. & B, X flash synchronization.
 Focusing: Coupled range-viewfinder with single eye-piece, minimum focusing distance 0.5 m.
 Other Features: Single-stroke film advance and shutter cocking lever; finder with illuminated bright frame line and parallax correction mark, etc. Size: 5 1/4 x 3 3/4 x 2 3/4" (132 x 86 x 74 mm), Weight: 1 1/2 lbs (665 g)

KONISHIROKU PHOTO IND. CO., LTD.

35mm CAMERA

MAMIYA 35 AUTO-DE LUXE

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Mamiya-Sekor 1: 1.7 f=48 mm coated lens.
 Shutter: Seikosa-SLV shutter with speeds from 1 to 1/500 sec. & B, M.X flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators on top of camera housing, functions with film exposure index ASA 10 to 800, cursor moved by aperture ring.
 Other Features: Single-stroke lever for film advance and shutter cocking; finder with illuminated bright frame line and automatic parallax compensation; self-selecting rewind crank; automatic resetting sprocket release button and exposure counter; internal reflection protection baffles. Size: 3 3/8 x 5 3/8 x 2 1/4" (84 x 137 x 73 mm), Weight: 1 1/2 lbs (790 g)

MAMIYA CAMERA CO., LTD.



35mm CAMERA



MAMIYA 35 RUBY

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Mamiya-Sekor 1: 1.9 f=48 mm lens or 1: 2.8 f=48 mm coated lens.
 Shutter: Copal SVK shutter with speeds from 1 to 1/500 sec. & B, M.X flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators on top of camera housing, functions with film exposure index ASA 10 to 800, cursor moved by aperture ring (w/1.9 lens) or either aperture ring or shutter speed dial (w/2.8 lens).
 Other Features: Single-stroke lever for film advance and shutter cocking; finder with illuminated bright frame line and parallax compensation; self-resetting sprocket release button and exposure counter; internal reflection prevention baffles. Size: 3 1/8 x 5 3/8 x 2 3/8" (79 x 131 x 73 mm), Weight: w/1.9 lens 1 1/2 lbs (774 g), w/2.8 lens 1 1/2 lbs (680 g)

MAMIYA CAMERA CO., LTD.

35mm CAMERA



PETRI Green-O-Matic 1.9

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Petri 1:1.9 f=45 mm coated lens.
 Shutter: Petri shutter with speeds from 1 to 1/500 sec. & B, M.X flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Other Features: Range-viewfinder has green glass for easy focusing and eliminating eye fatigue, illuminated bright frame line and parallax compensation; single stroke film advance and shutter cocking lever; automatic resetting exposure counter. Size: 5 1/4 x 3 1/4 x 2 3/4 (134 x 84 x 70 mm) 1 3/4 lbs (720 g).

KURIBAYASHI CAMERA INDUSTRY, INC.

35mm CAMERA

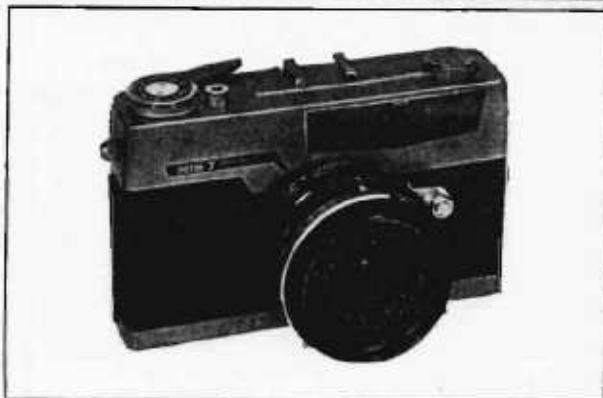


PETRI E. BN 1.9

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Petri 1:1.9 f=45 mm coated lens.
 Shutter: Petri shutter with speeds from 1 to 1/500 sec. & B, M.X flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators on top of camera housing, functions for LV 6.5-17 with ASA 100.
 Other Features: Finder with green glass, illuminated bright frame line and parallax compensation; single-stroke film advance and shutter cocking lever; automatic resetting exposure counter. Size: 5 1/4 x 3 1/4 x 2 3/4 (136 x 81 x 72 mm), Weight: 1 3/4 lbs (750 g).

KURIBAYASHI CAMERA INDUSTRY, INC.

35mm CAMERA



PETRI 7

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Petri 1:2.8 f=45 mm coated lens.
 Shutter: Petri shutter with speeds from 1 to 1/500 sec. & B, M.X flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators in viewfinder, functions for LV 7-17 with ASA 100.
 Other Features: Finder with green glass and illuminated bright frame line; single stroke film advance and shutter cocking lever. Size: 5 1/4 x 3 1/4 x 2 3/4 (136 x 83 x 70 mm), Weight: 1 3/4 lbs (600 g).

KURIBAYASHI CAMERA INDUSTRY, INC.

35mm CAMERA



PETRI COMPACT E

- Picture Size: 24x18 mm on 35 mm cartridge film.
 Lens: Petri 1:2.8 f=28 mm lens, amber-coated.
 Shutter: Petri shutter with speeds from 1/15 to 1/200 sec. & B, X flash synchronization.
 Focusing: Zone focusing system with three markings, and distance scale.
 Exposure Control: Built-in exposure meter, measurement range LV 7-16 with ASA 100.
 Other Features: Green glass viewfinder with illuminated bright frame line and parallax correction mark; trigger type lever for film advance and shutter cocking; automatic resetting exposure counter. Size: 4 1/4 x 3 x 1 1/4 (107 x 76 x 47 mm), Weight: 3/4 lbs (390 g).

KURIBAYASHI CAMERA INDUSTRY, INC.

35mm CAMERA



OLYMPUS AUTO-EYE

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: D Zuiko 1:2.8 f=45 mm coated lens.
 Shutter: Copal Special SV shutter with speeds from 1 to 1/500 sec. & B, M.X. flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Exposure Control: Fully automatic exposure control by built-in exposure meter, functions with film exposure index from ASA 10 to 800, flash exposure control and manual control.
 Other Features: Single-stroke film advance and shutter cocking lever; finder has illuminated bright frame line, parallax compensation and lens F-number signal at any shutter speed; automatic resetting exposure counter. Size: 5 1/4 x 3 3/4 x 3" (133 x 82 x 76 mm), Weight: 1 1/8 lbs (650 g).

OLYMPUS OPTICAL CO., LTD.

35mm CAMERA



OLYMPUS PEN EE

- Picture Size: 24x18 mm on 35 mm cartridge film.
 Lens: D Zuiko 1:3.5 f=28 mm coated lens.
 Shutter: Olympus Special shutter with one speed (1/60 sec.), X flash synchronization.
 Focusing: Fixed Focus.
 Exposure Control: Fully automatic exposure control by built-in exposure meter, functions for EV 8.7-17 (ASA 100), prevented from shutter releasing in unavailable light conditions, optional manual control.
 Other Features: Same as Model S. Size: 2 5/8 x 4 1/4 x 1 3/8" (66 x 108 x 42 mm), Weight: 3/4 lbs (350 g).

OLYMPUS OPTICAL CO., LTD.

35mm CAMERA

OLYMPUS PEN-S

- Picture Size: 24x18 mm on 35 mm cartridge film.
 Lens: D Zuiko 1:2.8 f=30 mm coated lens.
 Shutter: Copal shutter with speeds from 1/8 to 1/1250 sec. & B, X flash synchronization.
 Focusing: Distance scale.
 Other Features: Compact camera, capable to take 72 or 40 pictures on 35 mm standard film; dial type rapid film winder; finder with illuminated bright frame line. Size: 2 5/8 x 4 1/4 x 1 3/4" (66 x 108 x 44 mm), Weight: 7/8 lbs (400 g).

OLYMPUS OPTICAL CO., LTD.



35mm CAMERA

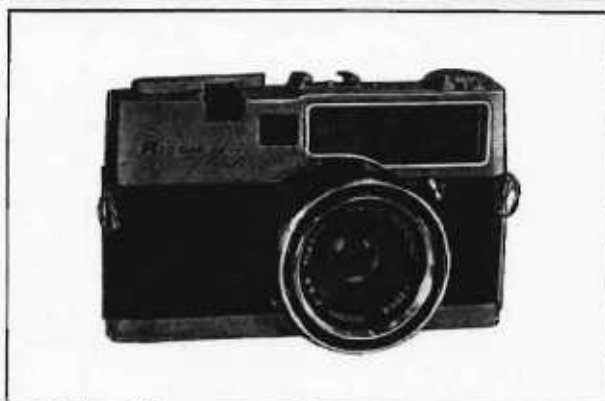


AUTO TERRA SUPER

- Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Plover 1:2.8 f=45 mm coated lens.
 Shutter: Copal SVL shutter with speeds from 1 to 1/500 sec. & B, exposure value scale, M.X. flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Other Features: Built-in spring motor transports film, cocks shutter automatically and permits 8 sequence exposures; finder with illuminated bright frame line and parallax correction mark; shutter release button on front of camera housing and its safety lock device; auxiliary motor, wide angle and telephoto conversion lenses available. Size: 3 5/8 x 5 7/8 x 2 1/4" (91.2 x 149 x 73 mm), Weight: 1 7/8 lbs (850 g).

TERAOKA SEIKOSHO CO., LTD.

35mm CAMERA

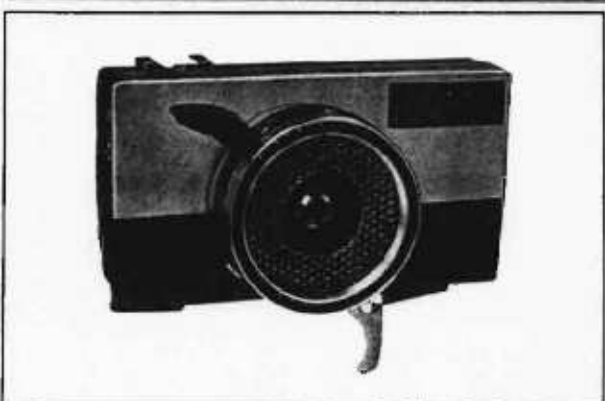


RICOH MATE

- Picture Size: 24 x 36 mm on 35 mm cartridge film.
 Lens: Ricoh 1:2.8 f=45 mm coated lens.
 Shutter: Seikohs V shutter with speeds from 1 to $\frac{1}{1250}$ sec. & B, X flash synchronization, built-in selftimer.
 Focusing: Single-Lever focusing.
 Other Features: Coupled range-viewfinder with single eye-piece. Single-stroke lever advances film and cocks shutter simultaneously; finder with illuminated bright frame line and automatic parallax compensation; flash synchro guide scale; cordless flash contact in accessory shoe; automatic resetting exposure counter. Size: $3\frac{3}{4} \times 5\frac{3}{8} \times 2\frac{1}{4}$ " (86 x 143 x 72 mm). Weight: 1 $\frac{3}{8}$ lbs (740 g).

RIKEN OPTICAL INDUSTRIES, LTD.

35mm CAMERA



RICOH AUTO 35

- Picture Size: 24 x 36 mm on 35 mm cartridge film.
 Lens: Riken Ricoh 1:4 f=40 mm coated lens.
 Shutter: Shutter speeds, $\frac{1}{25}$, $\frac{1}{32}$, $\frac{1}{40}$, $\frac{1}{50}$, $\frac{1}{60}$, $\frac{1}{125}$ sec. & B, correspond to Film Exposure Index (ASA or DIN), marked 2, 3, 4, S, 6, M & B, and M flash synchronization.
 Focusing: Uni-Focus.
 Exposure Control: Fully automatic exposure control by built-in exposure meter, incorrect exposure is warned inside finder.
 Other Features: Single-stroke trigger-type film advance lever; finder with illuminated bright frame line and parallax correction mark; cordless flash contact in accessory shoe; automatic resetting exposure counter. Size: $4\frac{1}{4} \times 2\frac{3}{8} \times 1\frac{1}{4}$ " (123 x 66 x 32 mm). Weight: 1 lb (460 g).

RIKEN OPTICAL INDUSTRIES, LTD.

35mm CAMERA

SAMOCA LM

- Picture Size: 24 x 36 mm on 35 mm cartridge film.
 Lens: Samocar 1:2.8 f=45 mm coated lens.
 Shutter: Samoca Synchro shutter with speeds from 1 to $\frac{1}{1250}$ sec. & B, F, X flash synchronization, built-in selftimer.
 Focusing: Coupled range-viewfinder with single eye-piece.
 Exposure Control: Built-in exposure meter.
 Other Features: Lever-type film advance and shutter cocking; finder with illuminated bright frame line and parallax correction mark; automatic resetting exposure counter. Size: $2\frac{3}{4} \times 5 \times 3\frac{1}{8}$ " (70 x 130 x 85 mm). Weight: 1 $\frac{1}{4}$ lbs (580 g).

SAMOCA CAMERA CO., LTD.



35mm CAMERA



SAMOCA EE

- Picture Size: 24 x 36 mm on 35 mm cartridge film.
 Lens: Samocar 1:3.5 f=45 mm coated lens.
 Shutter: Samoca E shutter with speeds correspond to film exposure index of ASA, X flash synchronization.
 Focusing: Zone focusing system with three click-stops.
 Exposure Control: Fully automatic exposure control by built-in exposure meter, functions for EV 11-17 (ASA 100).
 Other Features: Lever for film advance and shutter cocking; finder with illuminated bright frame line and parallax correction mark; automatic resetting exposure counter. Size: $2\frac{3}{4} \times 5 \times 3\frac{1}{8}$ " (70 x 130 x 85 mm). Weight: 1 $\frac{1}{4}$ lbs (580 g).

SAMOCA CAMERA CO., LTD.

SINGLE-LENS REFLEX CAMERA

ASAHI PENTAX S 3

Picture Size: 24 x 36 mm on 35 mm cartridge film.

Lens: Auto-Takumar 1:1.8 f=55 mm coated lens with fully automatic diaphragm, interchangeable screw mount.

Shutter: Focal-plane shutter, single non-rotating shutter speed dial, 1 to $\frac{1}{1000}$ sec., B & T, FP, X synchro socket.

Focusing: Eye-level Pentaprism finder with Fresnel brightened ground glass and the the Cross-micro-split aerial image.

Exposure Control: Clip-on type PENTAX exposure meter, incorporated with photoconducted cell (CdS) powered by a mercury battery (1.3 V), couples with shutter speed dial, functions for LV 2-18 (Film speed ASA 100).

Other Features: Single stroke winding lever cocks shutter, transports film and advances film exposure counter; instant return mirror; wide angle and telephoto lenses and other accessories. Size: $3\frac{3}{4} \times 5\frac{1}{4} \times 3\frac{3}{8}$ " (92 x 145 x 87 mm), Weight: 1 $\frac{1}{4}$ lbs (802 g).

ASAHI OPTICAL CO., LTD.



SINGLE-LENS REFLEX CAMERA

MINOLTA SR-3

Picture Size: 24 x 36 mm on 35 mm cartridge film.

Lens: Auto Rokkor PF 1:1.8 f=55 mm coated lens with fully automatic diaphragm, interchangeable bayonet mount.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec. & B, FP, X flash synchronization, built-in selftimer.

Focusing: Eye-level Penta-prism finder, groundglass with Fresnel-type lens and split-image rangefinder in the center.

Exposure Control: Clip-on exposure meter couples to shutter speed dial, functions with film exposure index ASA 6-3200.

Other Features: Single-stroke film advance and shutter wind lever; single non-rotating shutter speed dial; auto-reset exposure counter; wide angle, telephoto interchangeable lenses and other various accessories available. Size: $3\frac{3}{4} \times 5\frac{1}{4} \times 1\frac{1}{4}$ " (95 x 145 x 48 mm), Weight: 2 $\frac{1}{4}$ lbs (930 g).

CHIYODA KOGAKU SEIKO K.K.



SINGLE-LENS REFLEX CAMERA

CANONFLEX R 2000

Picture Size: 24 x 36 mm on 35 mm cartridge film.

Lens: Super Canonomatic R 50 mm 1:1.8 coated lens with fully automatic instant-reopen diaphragm, interchangeable bayonet mount.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec., B & T, automatic flash timing for FP, M, F flash bulbs and speedlight.

Focusing: Eye-level Penta-prism finder, interchangeable with waist-level finder, groundglass with Fresnel-type lens.

Exposure Control: Clip-on exposure meter couples to shutter speed dial, functions for LV 4-19 using ASA 100 film.

Other Features: Single-stroke trigger-action film advance and shutter wind lever on the base plate; single non-rotating shutter-speed dial; instant return mirror; cordless flash contact; auto-reset exposure counter; wide angle, telephoto interchangeable lenses and other accessories available. Size: $3\frac{1}{4} \times 5\frac{1}{8} \times 1\frac{3}{8}$ " (99 x 145 x 49 mm), Weight: 22.5 oz. (690 g).

CANON CAMERA CO., INC.



SINGLE-LENS REFLEX CAMERA

CANONFLEX RP

Picture Size: 24 x 36 mm on 35 mm cartridge film.

Lens: Super Canonomatic R 50 mm 1:1.8 coated lens with fully automatic instant-reopen diaphragm, interchangeable bayonet mount.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec. & B, automatic flash timing for FP, M, F flash bulbs and speedlight.

Focusing: Eye-level Penta-prism finder, groundglass with Fresnel-type lens.

Exposure Control: Clip-on exposure meter couples to shutter speed dial, functions for LV 4-19 using ASA 100 film.

Other Features: Single-stroke trigger-action film advance and shutter wind lever on the base plate; metal focal-plane shutter curtains and single non-rotating dial; instant return mirror; cordless flash contact; auto-reset exposure counter; wide angle, telephoto interchangeable lenses and other accessories available. Size: $3\frac{1}{4} \times 5\frac{1}{8} \times 1\frac{3}{8}$ " (99 x 145 x 49 mm), Weight: 1 $\frac{1}{4}$ lbs (680 g).

CANON CAMERA CO., INC.



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SINGLE-LENS REFLEX CAMERA

KONICA FS

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Hexanon 1:2 f=50 mm coated lens with fully automatic instant-reopen diaphragm, interchangeable bayonet mount.

Shutter: Highsynchro, all metal, special focal-plane type shutter, with speeds from 1 to $\frac{1}{1000}$ sec. & B, M flash synchronization at all shutter speeds, and X up to and including $\frac{1}{125}$ sec., built-in selftimer.

Focusing: Eye-level Penta-prism finder, groundglass with Fresnel-type lens.

Other Features: Single-stroke film advance and shutter wind lever; instant return mirror; single non-rotating shutter speed dial; manual aperture lever for depth of field check; minimum focusing distance 60 cm; self-reset exposure counter and rewind button. Size: $5\frac{3}{4} \times 4 \times 3\frac{1}{8}$ " (145x102.5x80 mm), Weight: $2\frac{1}{16}$ lbs (940 g).

KONISHIROKU PHOTO IND. CO., LTD.



SINGLE-LENS REFLEX CAMERA

PETRI PENTA V 2

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Petri 1:2 f=50 mm coated lens with fully automatic diaphragm, interchangeable bayonet mount.

Shutter: Focal-plane shutter with speeds from $\frac{1}{2}$ to $\frac{1}{1000}$ sec. & B, FP, X flash synchronization, built-in selftimer.

Focusing: Eye-level Penta-prism finder, groundglass with Fresnel-type lens and double split-image range-finder in the center.

Other Features: Single-stroke film advance and shutter wind lever; instant return mirror; single pivot non-rotating shutter speed dial; depth of field preview device; auto-reset exposure counter. Size: $5\frac{3}{4} \times 3\frac{3}{4} \times 3\frac{3}{4}$ " (142x94x87 mm), Weight: $1\frac{3}{4}$ lbs (850g).

KURIBAYASHI CAMERA INDUSTRY, INC.



SINGLE-LENS REFLEX CAMERA

MIRANDA AUTOMEX

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Miranda 1:1.9 f=50 mm coated lens with fully automatic instant-reopen diaphragm, interchangeable screw and bayonet mounts.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec. & B, FP, X flash synchronization, built-in selftimer.

Focusing: Eye-level Penta-prism finder, interchangeable with waist-level finder, groundglass with Fresnel-type lens.

Exposure Control: Built-in exposure meter coupled to both the shutter speed dial and diaphragm setting lever, permits exposure control by sighting two indicators inside finder, functions with film exposure index ASA 8-400.

Other Features: Single-stroke film advance and shutter wind lever; instant return mirror; single non-rotating shutter speed dial; auto-reset exposure counter; unique lens mounts accept various lenses of many other makes, complete line of accessories available. Size: $3\frac{3}{4} \times 5\frac{7}{8} \times 3\frac{1}{2}$ " (93x148x89 mm), Weight: 2 lbs (1000 g).

MIRANDA CAMERA CO., LTD.



SINGLE-LENS REFLEX CAMERA

MIRANDA D

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Prominar-Miranda 1:1.9 f=50 mm coated lens with fully automatic diaphragm, or Miranda 1:2.8 f=50 mm coated lens with pre-set diaphragm, interchangeable screw and bayonet mounts.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec. & B, FP, X synchro sockets.

Focusing: Eye-level Penta-prism finder, interchangeable waist-level finder, groundglass with Fresnel-type lens.

Other Features: Single-stroke film advance and shutter wind lever; front shutter release button; instant return mirror; unique lens mounts accept various lenses of many other makes; complete line of accessories available. Size: $3\frac{3}{4} \times 5\frac{3}{8} \times 3$ " (94x148x78 mm), Weight: $1\frac{3}{4}$ lbs (780 g).

MIRANDA CAMERA CO., LTD



SINGLE-LENS REFLEX CAMERA



MAMIYA PRISMAT NP

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Mamiya-Sekor 1:1.7 f=58 mm coated lens, diaphragm closes down to pre-set stop automatically, interchangeable mount.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec., B, S, T, synchronization FP, M, F flash bulbs and speedlight with FP and X sockets, built-in selftimer.

Focusing: Eye-level Penta-prism finder, groundglass with Fresnel-type lens.

Exposure Control: Clip-on exposure meter mounted on Penta-prism housing couples to shutter speed, functions with film exposure index ASA 6-1600.

Other Features: Single-stroke film advance and shutter wind lever; depth of field preview button; instant return mirror; self-reset sprocket release button and exposure counter; prevention for internal reflection. Size: $3\frac{1}{4} \times 5\frac{1}{16} \times 4\frac{1}{8}$ (95x147x101 mm). Weight: 2 $\frac{1}{4}$ lbs (928 g). MAMIYA CAMERA CO., LTD.

SINGLE-LENS REFLEX CAMERA

NIKON F

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Nikkor-auto 1:1.4 f=58 mm or 1:2 f=90 mm coated lens with fully automatic instant-reopen diaphragm, interchangeable bayonet mount.

Shutter: Focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec., B & T, Time-lag for FP, M, F and X flash synchronization selected by color coded synchro selector, built-in selftimer.

Focusing: Eye-level Penta-prism finder, interchangeable with waist-level finder, groundglass with Fresnel-type lens and split-image rangefinder in the center.

Exposure Control: Clip-on exposure meter couples to lens opening and shutter speed, functions with film exposure index ASA 6-4000.

Other Features: Single-stroke film advance and shutter wind lever; metal focal-plane shutter curtain and single non-rotating speed dial; depth of field preview button; instant return mirror; auto-reset exposure counter; wide angle, telephoto interchangeable lenses and other various accessories available. Size: $3\frac{1}{4} \times 3\frac{1}{8} \times 3\frac{1}{4}$ (147x98x89 mm), w/1:2 lens. Weight: 1 $\frac{1}{2}$ lbs (670 g).

NIPPON KOGAKU K.K.



SINGLE-LENS REFLEX CAMERA



AUTOMATIC TOPCON R III

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: F, Auto-Topcon 1:1.8 f=58 mm coated lens with fully automatic instant-reopen diaphragm, interchangeable bayonet mount.

Shutter: Non-spinning single speed dial, focal-plane shutter with speeds from 1 to $\frac{1}{1000}$ sec., B, synchronization for FP, M, F flash bulbs and speedlight selected by F or X setting.

Focusing: Eye-level Penta-prism finder, interchangeable with waist-level finder, groundglass with Fresnel-type lens and split-image rangefinder.

Other Features: Detachable light meter couples to shutter, instant return mirror; wide angle and telephoto interchangeable lenses and other accessories available. Size: $3\frac{1}{4} \times 6\frac{1}{4} \times 3\frac{1}{8}$ (100x155x102 mm). Weight: 2 $\frac{3}{4}$ lbs (1000 g).

TOKYO OPTICAL CO., LTD.

SINGLE-LENS REFLEX CAMERA



KOWAFLEX-E

Picture Size: 24x36 mm on 35 mm cartridge film.

Lens: Prominar 1:2 f=90 mm coated lens with fully automatic diaphragm.

Shutter: Seiknahe SLV shutter with speeds from 1 to $\frac{1}{1000}$ sec., B, M, X flash synchronization, built-in selftimer.

Focusing: Eye-level Penta-prism viewfinder, groundglass with Fresnel-type lens.

Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators inside viewfinder.

Other Features: Lever-type film advance and shutter cocking; instant return mirror; automatic resetting exposure counter; wide angle 36 mm and telephoto 86 mm conversion lenses available. Size: $3\frac{1}{4} \times 3\frac{3}{8} \times 3\frac{3}{8}$ (94x138x87 mm). Weight: 1 $\frac{1}{2}$ lbs (690 g).

KOWA CO., LTD. KOWA OPTICAL WORKS

SINGLE-LENS REFLEX CAMERA



NIKKOREX-35

Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Nikkor 1:2.5 f=50 mm coated lens with automatic diaphragm.
 Shutter: Citizen MVL shutter with speeds from 1 to 1/500 sec. & B, F, X flash synchronization, built-in selftimer.
 Focusing: Eye-level Porro-mirror system finder, groundglass with Fresnel-type lens and split-image rangefinder in the center.
 Exposure Control: Built-in exposure meter cross-coupled to shutter speed and lens diaphragm, permits exposure control by aligning moving needle and index inside finder, functions with film exposure index ASA 10-1600.
 Other Features: Single-stroke lever advances film, cocks shutter, returns mirror and reopens diaphragm; auto-reset exposure counter; conversion lenses for wide angle, tele and close-up available. Size: 5 1/4 x 3 3/4 x 2 1/4" (138 x 95 x 74 mm). Weight: 1 1/4 lbs (810 g).

NIPPON KOGAKU K.K.

SINGLE-LENS REFLEX CAMERA

TOPCON WINKMIRROR

Picture Size: 24x36 mm on 35 mm cartridge film.
 Lens: Topcon 1:2 f=48 mm coated lens with fully automatic instant-reopen diaphragm.
 Shutter: Seikosha SLV shutter with speeds from 1 to 1/500 sec. & B, LV scale, M, X flash synchronization, built-in selftimer.
 Focusing: Eye-level Pentaprism finder, groundglass with Fresnel-type lens and split image rangefinder.
 Other Features: Instant return mirror, single-stroke film advance and shutter cocking, wideangle and telephoto Aux. lenses and other accessories available. Size: 3 1/2 x 3 1/4 x 2 1/4" (132 x 90 x 74 mm). Weight: 1 1/2 lbs (720 g).



TOKYO OPTICAL CO., LTD.

SINGLE-LENS REFLEX CAMERA



ZENSA BRONICA S

Picture Size: 6x6 cm (2 1/4 x 2 1/4") on 120 roll film.
 Lens: Nikkor 1:2.8 f=75 mm coated lens with fully automatic diaphragm, interchangeable bayonet mount.
 Shutter: Focal plane shutter with speeds from 1 to 1/1000 sec. & B, automatic synchronization for FP, M flash bulbs and speedlight.
 Focusing: Waist-level finder, interchangeable with Pentaprism finder, groundglass with Fresnel-type lens.
 Other Features: Stainless steel construction; instant return mirror; depth of field preview button; film transport couples to shutter winding; double exposure prevention and multiple exposure; interchangeable film back; foolproof coupling device between camera body and film back; wide angle and telephoto interchangeable lenses available. Size: 5 3/4 x 4 1/4 x 4 3/4" (138.2 x 109.4 x 112 mm). Weight: 3 3/4 lbs (1700 g).

BRONICA CAMERA INC.

PRESS CAMERA

TOPCON PRESS

Picture Size: 6x9 cm (2 1/4 x 3 1/4") on sheet film, pack film or roll film.
 Lens: Topcon P. S. 1:3.5 f=105 mm coated lens, interchangeable with Topcon P.W. 1:5.6 f=65 mm and Topcon P.T. 2:5.6 f=180 mm lenses.
 Shutter: Seikosha SLV #0 shutter with speeds from 1 to 1/500 sec. & B, M, X flash synchronization, built-in selftimer.
 Focusing: Built-in rangefinder couples to all three lenses by cam-type selector, and groundglass focusing.
 Other Features: Built-in optical finder with bright frame line which corrects parallax automatically; sports finder; front rises and swings, back tilts and swings; bellows extension 14 cm; back extension 2.3 cm; filter, roll film adapter, flash gun etc. available. Size: 3 x 6 1/4 x 3 1/2" (75 x 158 x 89 mm). Weight: 4 1/2 lbs (2005 g).



TOKYO OPTICAL CO., LTD.

TWIN-LENS REFLEX CAMERAS

MINOLTA AUTOCORD

- Picture Size: 6x6 cm (2 1/4 x 2 1/4") on 120 roll film.
 Lens: Rokkor 1:3.5 f=75 mm coated lens.
 Shutter: Optiper MVL shutter with speeds from 1 to 1/500 sec. & B, EV scale from 3 to 18, M, X flash synchronization, built-in selftimer.
 Focusing: Groundglass with Fresnel-lens.
 Other Features: Crank-lever for film winding and shutter cocking; double exposure prevention and multiple exposure device; shutter speeds cross couple to lens openings; safety lock for shutter release; automatic exposure counter; film loading by start mark. Size: 5 1/2 x 3 1/4 x 3 3/4" (143 x 95 x 100 mm). Weight: 3 1/4 lbs (980 g).



CHIYODA KOGAKU
SEIKO K.K.

MAMIYAFLEX C 2 "Professional"

- Picture Size: 6x6 cm (2 1/4 x 2 1/4") on 120 roll film.
 Taking Lens: Mamiya-Sekor 1:3.5 f=105 mm coated lens, interchangeable.
 Shutter: Seikooha-S shutter with speeds from 1 to 1/500 sec. & B, M, X flash synchronization.
 Focusing: Groundglass with Fresnel-lens, waist level finder hood interchangeable with eye-level focusing-viewing mirror finder.
 Other Features: Lens-shutter assembly is interchangeable; straight film path assures correct flatness of film surface; extendable bellows for ultra-close-range work, parallax compensation scale and exposure correction scale; loading and unloading of film possible without removing the camera from tripod; automatic film stop and exposure counter; single exposure possible; film load setting by start mark; wide angle and telephoto interchangeable lenses available. Size: 6 1/2 x 3 1/4 x 4 1/4" (166 x 86 x 106 mm). Weight: 3 1/2 lbs (1600 g).



MAMIYA CAMERA
CO., LTD.

TWIN-LENS REFLEX CAMERAS

RICOHMATIC 44

- Picture Size: 4x4 cm (1 1/4 x 1 1/4") on 127 roll film.
 Taking Lens: Rikenon 1:3.5 f=60 mm coated lens.
 Shutter: Shutter speeds correspond to Film Exposure Index ASA or DIN, marked B, M, 1, 2, 3, and X flash synchronization.
 Focusing: Groundglass with Fresnel-lens.



- Exposure Control: Built-in exposure meter permits exposure control by aligning two indicators on the top of camera housing.
 Other Features: Duo-lever push lever for focusing; built-in eye-level sports finder; automatic shutter cocking; cordless flash contact in accessory shoe; hinged plastic front cover. Size: 4 1/4 x 2 1/4 x 3 1/4" (121 x 63 x 81.5 mm). Weight: 1 1/4 lbs (730 g).

RIKEN OPTICAL IND., LTD.

RICOHMATIC 225

- Picture Size: 6x6 cm (2 1/4 x 2 1/4") on 120 roll film.
 Taking Lens: Rikenon 1:3.5 f=80 mm coated lens.
 Shutter: Seikooha SLV with speeds from 1 to 1/500 sec. & B, EV scale from 4 to 18, M, X flash synchronization, built-in selftimer.
 Focusing: Groundglass with Fresnel-type lens.
 Exposure Control: Built-in exposure meter with EV scale.
 Other Features: Duo pushlever for focusing; shutter speeds cross couple to lens openings; crank-lever for film winding and shutter cocking, double exposure prevention and multiple exposure device; automatic safeguard for accidental shutter tripping; sports finder; automatic exposure counter; film loading by start mark. Size: 3 1/4 x 5 1/4 x 4 1/8" (95 x 145 x 103 mm). Weight: 2 1/4 lbs (1050 g).



RIKEN OPTICAL
IND., LTD.

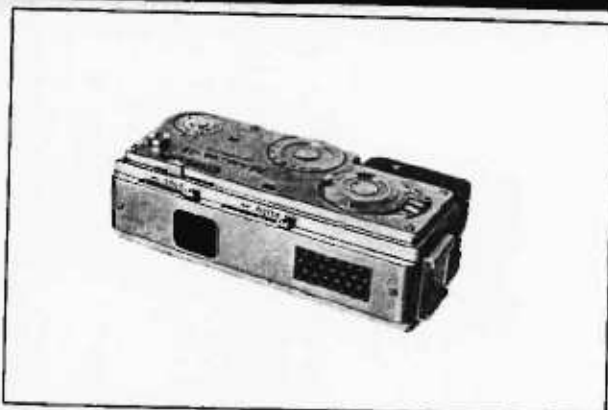
SUB-MINIATURE CAMERA

MAMIYA 16 AUTOMATIC

Picture Size: 10x14 mm on 16 mm film in double cassettes.
 Lens: Mamiya-Sekor I: 2.8 f=25 mm coated lens.
 Shutter: Mamiya special shutter with speeds from 1/4 to 1/300 sec. & B, F flash synchronization.
 Focusing: Distance scale.
 Exposure Control: Built-in exposure meter permits exposure control by aligning shutter speed indication with exposure needle; functions with film speed index ASA 10-1,600.

Other Features: Thumb-operated ring for simultaneous film advance and shutter cocking; automatic exposure counting; fold-away type life-size image finder with parallax correction mark; self-contained interchangeable filters; shutter release safety lock device by lens cover. Size: 1 1/4 x 4 1/4 x 1 3/4" (32 x 104 x 48 mm). Weight: 3/8 lbs (273 g).

MAMIYA CAMERA CO., LTD.



SUB-MINIATURE CAMERA

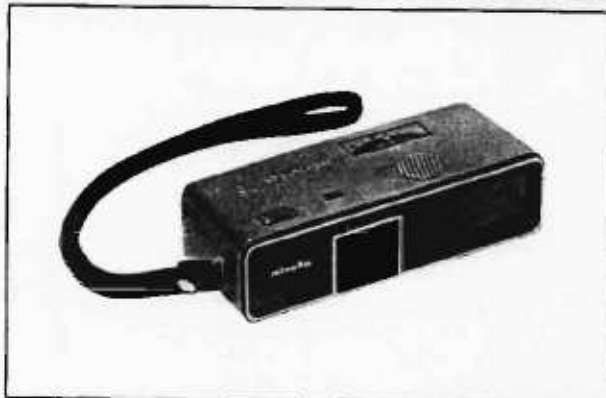


MAMIYA 16 DE LUXE

Picture Size: 10x14 mm on 16 mm film in double cassettes.
 Lens: Mamiya-Sekor I: 2.8 f=25 mm coated lens.
 Shutter: Mamiya special shutter with speeds from 1/4 to 1/300 sec. & B, F flash synchronization.
 Focusing: Distance scale.
 Other Features: Thumb-operated ring for simultaneous film advance and shutter cocking; automatic exposure counting; optical finder with automatic parallax correction; self-contained interchangeable filters; shutter release safety lock device by lens cover. Size: 1 3/4 x 3 3/4 x 1 3/4" (33 x 99 x 50 mm). Weight: 3/8 lbs (248 g).

MAMIYA CAMERA CO., LTD.

SUB-MINIATURE CAMERA



MINOLTA 16-P

Picture Size: 10x14 mm on 16 mm film in double cassettes.
 Lens: Rokkor 1: 3.5 f=25 mm coated lens.
 Shutter: Sliding type shutter with instantaneous speed (1/1000 sec.), X flash synchronization.
 Focusing: Fixed focus.
 Exposure Control: Exposure control dial with film exposure index ASA 10-160.
 Other Features: Life size image finder; film advance couples to shutter cocking; automatic exposure counting. Size: 1 1/4 x 4 1/4 x 1 3/4" (27 x 103 x 42 mm). Weight: 1/4 lbs (120 g).

CHIYODA KOGAKU SEIKO K.K.

INTERCHANGEABLE LENSES FOR STILL CAMERA



TAKUMAR INTERCHANGEABLE LENSES

Name	Focal Length	Speed	Stops Down to	Description
Auto-Takumar	35 mm	1:3.5	f/22	Automatic diaphragm
Auto-Takumar	85 mm	1:1.8	f/16	"
Takumar	135 mm	1:3.5	f/22	Pre-set diaphragm
Takumar	200 mm	1:3.5	f/22	"

Remarks: Other Takumar interchangeable lenses are also available.

ASAHI OPTICAL CO., LTD.

INTERCHANGEABLE LENSES FOR STILL CAMERA

NIKKOR INTERCHANGEABLE LENSES

Name	Focal Length	Speed	Steps Down to	Description
Nikkor	21 mm	1:4	f/22	for Nikon SP, S3
Nikkor	21 mm	1:4	f/16	for Nikon F
Nikkor	25 mm	1:4	f/22	for Nikon SP, S3
Nikkor	28 mm	1:3.5	f/22	"
Nikkor-auto	28 mm	1:3.5	f/22	Automatic diaphragm, for Nikon F
Nikkor	35 mm	1:1.8	f/22	for Nikon SP, S3
Nikkor	35 mm	1:2.3	f/22	"
Nikkor-auto	35 mm	1:2.8	f/16	Automatic diaphragm, for Nikon F
Nikkor	35 mm	1:3.5	f/22	for Nikon SP, S3
Nikkor	50 mm	1:1.1	f/22	"
Nikkor	50 mm	1:1.4	f/16	"
Nikkor	50 mm	1:2	f/16	"
Nikkor-auto	50 mm	1:2	f/16	Automatic diaphragm, for Nikon F
Nikkor-auto	58 mm	1:1.4	f/16	"
Nikkor	85 mm	1:1.5	f/32	for Nikon SP, S3
Nikkor	85 mm	1:2	f/32	"
Nikkor	105 mm	1:2.5	f/32	for Nikon SP, S3
Nikkor-auto	105 mm	1:2.5	f/22	Automatic diaphragm, for Nikon F
Nikkor	105 mm	1:4	f/22	for Nikon SP, S3
Nikkor	105 mm	1:4	f/22	for Nikon F
Nikkor	135 mm	1:3.5	f/32	for Nikon SP, S3
Nikkor-auto	135 mm	1:3.5	f/22	Automatic diaphragm, for Nikon F
Nikkor	180 mm	1:2.5	f/32	Pre-set diaphragm
Nikkor	250 mm	1:4	f/32	Pre-set diaphragm
Nikkor	350 mm	1:4.5	f/32	Semi-automatic diaphragm
Nikkor	500 mm	1:5	f/45	Pre-set diaphragm
Micro-Nikkor	50 mm	1:3.5	f/22	for Nikon SP, S3 or Leica for enlarger with Leica-type lens mount
EL-Nikkor	80 mm	1:2.8		

* for Nikon SP, S3 with reflex-housing or for Nikon F with adapter tube.

REFLEX-NIKKOR

f=1000 mm 1:6.3

Used on the Nikon SP or S3 by Reflex-housing or on the Nikon F by N-F adapter tube, for 24x36 mm super-telephoto photography. Stopped down by built-in neutral filters on the turret to f/11, f/16 and f/22. Focus Range: ∞-30 meters through extension of bellows by rack and pinion.

Color filters: L 39, Y 52, O 56 and R 60, interchangeable by rotating the inside turret.

Picture Angle: 2° 30' in diagonal

Weight: About 22½ lbs (10 kg)

NIKKOR ZOOM LENSES for Nikon F Camera

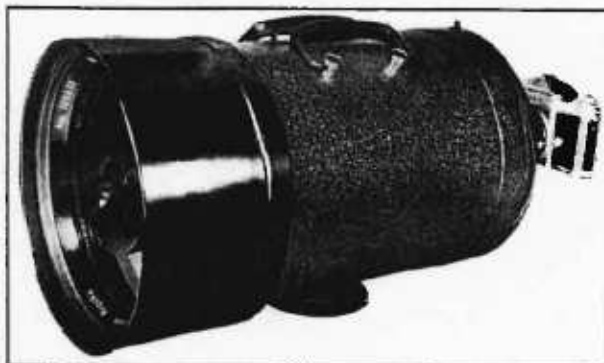
Auto-Nikkor Telephoto-Zoom

f=85 mm - 250 mm 1:4 to 2:4.5

Auto-Nikkor Telephoto-Zoom

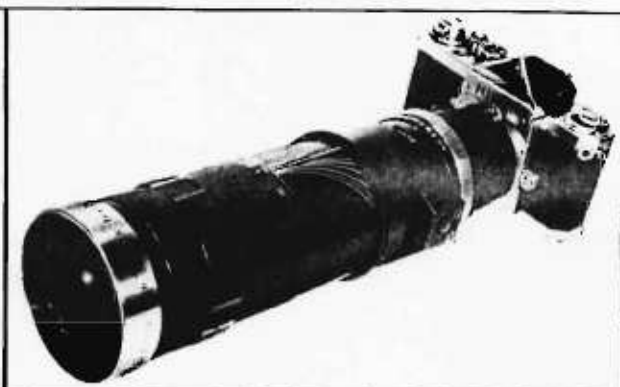
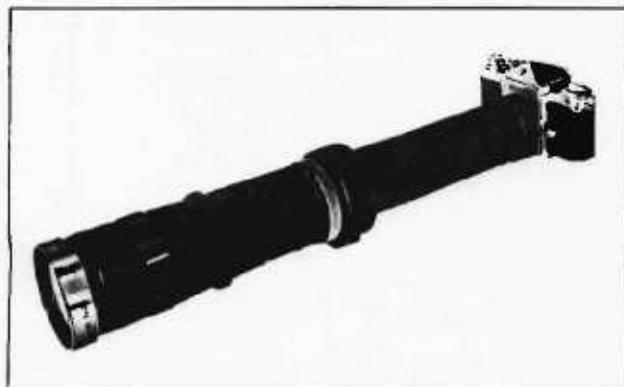
f=200 mm - 600 mm 1:9.5 to 1:10.5

Once in focus for subject distance, it remains in sharp focus at



every focal length. The diaphragm is wide open for focusing and viewing and automatically stops down to the preselected opening and instantly reopens to full aperture. Weight: about 4 lbs (1.8 kg)

NIPPON KOGAKU K.K.



INTERCHANGEABLE LENSES FOR STILL CAMERA

TOPCOR INTERCHANGEABLE LENSES

Name	Focal Length	Speed	Stops Down to	Description
F. Auto-Topcor	35 mm	1:2.8	f/22	Automatic diaphragm
F. Auto-Topcor	58 mm	1:1.8	f/22	"
R. Topcor	90 mm	1:3.5	f/22	Pre-set diaphragm
F. Auto-Topcor	100 mm	1:2.8	f/22	Automatic diaphragm
F. Auto-Topcor	135 mm	1:3.5	f/22	"
R. Topcor	135 mm	1:2	f/22	Pre-set diaphragm
R. Topcor	135 mm	1:3.5	f/22	"
R. Topcor	200 mm	1:4	f/22	"
R. Topcor	300 mm	1:2.8	f/22	"
R. Topcor	300 mm	1:5.6	f/22	"

Remarks: Interchangeable for Topcon R and other single-lens reflex cameras with bayonet mount.



TOKYO OPTICAL CO., LTD.

INTERCHANGEABLE LENSES FOR STILL CAMERA

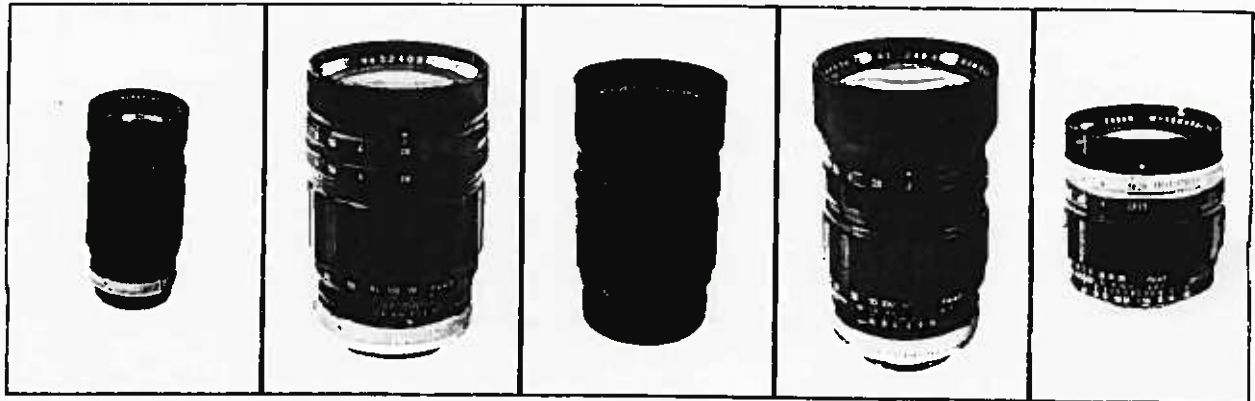
KOMURA INTERCHANGEABLE LENSES

Name	Focal Length	Speed	Stops Down to	Description
Komura	35 mm	1:2.5	f/22	Pre-set diaphragm, mounts (I)
Komura	105 mm	1:2.0	f/16	Pre-set diaphragm, mounts (i)
Komura	105 mm	1:2.0	f/16	Click-stop diaphragm, mounts (II)
Komura	135 mm	1:2.8	f/22	Pre-set diaphragm, mounts (I)
Komura	135 mm	1:2.8	f/22	Click-stop diaphragm, mounts (II)
Komura	135 mm	1:2.3	f/16	Pre-set diaphragm, mounts (I)
Komura	200 mm	1:4.3	f/22	Pre-set diaphragm, mounts (I)
Komura	200 mm	1:4.5	f/22	Click-stop diaphragm, mounts (I)

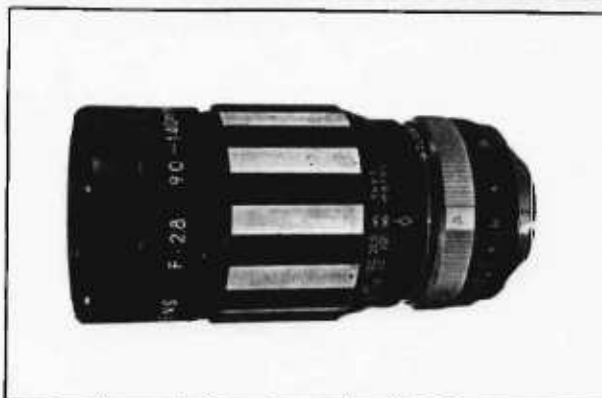
The other lenses, Komura 28 mm 1:2.8, 80 mm 1:1.8, 85 mm 1:1.4, 105 mm 1:3.5, 200 mm 1:3.5, 300 mm 1:5.0, 400 mm 1:6.3, 500 mm 1:7.0, 800 mm 1:8.0 available.

Remarks: Mounts (I).....for Nikon, Miranda, Topcon R, Minolta SR, Petri Penta, Asahi Pentax, Exakta, Praktica, Praktina and Pentacon cameras.
Mounts (II).....for Canon, Nica, Leotax, Yashica, Minolta 35 and Leica cameras.

SANKYO KOHKI (OPTICAL GOODS) WORKS, LTD.



INTERCHANGEABLE LENS FOR STILL CAMERA



SUN ZOOM LENS

Sun interchangeable zoom lens for 35 mm still cameras. Focal length 110 mm—180 mm variable, 1:4, stops down to f/22, with Contax mount or Pentax mount.

SUN OPTICAL CO., LTD.

CAMERA ACCESSORIES

"BRONICA" Accessories for Zenza Bronica Single-lens Reflex Camera

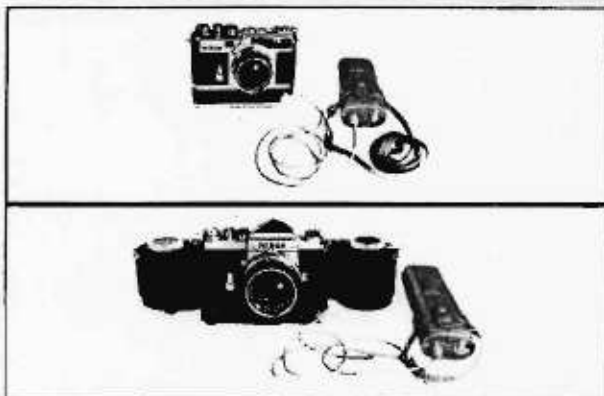
Extension Tube Set.
Pentaprism Viewfinder Model B.
Stabilizer Plate.

"NIKKOR" Interchangeable Lenses:
50 mm 1:3.5 with automatic preset diaphragm.
135 mm 1:3.5 " "
180 mm 1:2.5 with preset diaphragm.
250 mm 1:4.0 " "
350 mm 1:4.5 " "
500 mm 1:5.0 " "

Various assorted Filters and Lens Hoods are available.

BRONICA CAMERA, INC.

CAMERA ACCESSORIES

NIKON ELECTRIC MOTOR BACKS
for Sequence Photography

Nikon Electric Motor Backs Models S36 and F36 for 36 Exposures

Attached to the specially adapted Nikon cameras in place of its regular Camera back, it brings automatic fire-power to Nikon photography. Single or bursts of two or more, right through an entire 36-exposure load—controlled from camera position or remotely from the cord-connected battery case—at a rate of up to 4 frames per second.

Nikon Electric Motor Back Model F 250 for 250 exposures

Attached to the Nikon F, it offers all of the operational advantages of the Model S36 or F36 plus the use of interchangeable daylight cassettes that hold sufficient film up to 250 exposures.

NIPPON KOGAKU K.K.



NIKON CLIP-ON EXPOSURE METER

Nikon Meter Model 3 for Nikon F

Reflected light type, provided with opal plate for incident light reading; calibrated scales: F-number 1.4—22, shutter speeds 2— $\frac{1}{1000}$ sec., and E.V. 5—18 (ASA 100), film exposure index ASA 6—4000; attached on top of Nikon F camera and couples to the shutter speed dial and lens openings on Nikkor-auto interchangeable lenses; follow-the-needle type reading; high and low measurement range change over automatically; booster cell available.

Nikon Meter for Nikon SP

Reflected light type, provided with opal plate for incident light reading; calibrated scales: F-number 1—22, shutter speeds 15— $\frac{1}{1000}$ sec., E.V. 5-18 (ASA 100) and film exposure index ASA 6—4000; attached on top of Nikon SP camera and couples to the shutter dial; the retainer for individual use available.

NIPPON KOGAKU K.K.

Telescopes



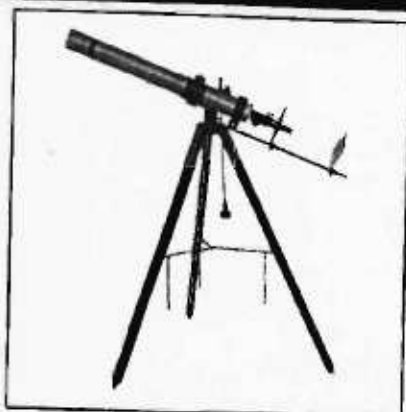
ASTRONOMICAL TELESCOPE**2.5 INCH TELESCOPE**

Magnification: 25x ~ 110x
 Diameter of Objective Aperture: 63 mm
 Focal Length of Objective: 980 mm
 Eyepieces: 40 mm (terrestrial), 25 mm, 18 mm, 9 mm
 Tripod: Provided with simplified equatorial mount and slow motion control driven by hand.

Weight
 Telescope: 6 $\frac{7}{8}$ lbs (3.1 kg)
 Tripod: 26 $\frac{3}{8}$ lbs (12.1 kg)
 Length: 39 $\frac{1}{4}$ " (1010 mm)
 Height: 55 $\frac{1}{8}$ " (1400 mm) with tripod

Sun projector is included.

NIPPON KOGAKU K.K.

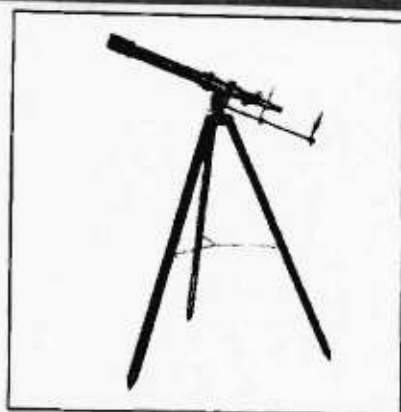
**ASTRONOMICAL TELESCOPE****2 INCH TELESCOPE**

Magnification: 42x, 83x
 Diameter of Objective Aperture: 50 mm
 Focal Length of Objective: 750 mm
 Eyepieces: 18 mm, 9 mm
 Tripod: Provided with simplified equatorial mount

Weight
 Telescope: 4 $\frac{1}{8}$ lbs (2 kg)
 Tripod: 16 $\frac{1}{8}$ lbs (7.5 kg)
 Length: 34 $\frac{1}{4}$ " (870 mm)
 Height: 55 $\frac{1}{8}$ " (1400 mm) with tripod

Sun projector is included.

NIPPON KOGAKU K.K.

**ASTRONOMICAL TELESCOPE****POLAREX TELESCOPE**

Refracting Type
 Diameter of Objective Aperture: 6" (155 mm)
 Focal Length of Objective: 2500 mm
 Finder Telescope: 125 x 60 mm
 Sidescope: 100 mm, 1500 mm
 Eyepieces: Kellner 60 mm, 40 mm, 18 mm
 Ramsden 25 mm
 Achromatic Ramsden 9 mm, 7 mm
 Orthoscopic 6 mm

Accessories: Sun diagonal, Star diagonal, Sun projector, Circles, Sun glass, Moon glass, Sun and moon cameras, Filters, Driving clock or motor.

NIHON SEIKO KENKYUSHO, LTD. (Address Page 122)

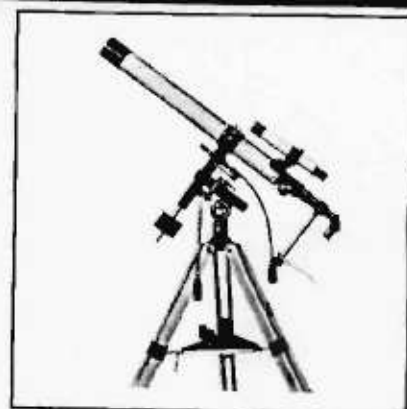
**TOWA ETI**

Magnification: 40x, 88x, 160x
 Diameter of Objective Aperture: 60 mm
 Focal Length of Objective: 800 mm
 Eyepieces: 20 mm, 9 mm, 5 mm

Weight
 Telescope: 3 $\frac{1}{2}$ lbs (1.57 kg)
 Tripod: 5 $\frac{1}{4}$ lbs (2.67 kg)
 Length: 29 $\frac{1}{8}$ " ~ 35 $\frac{1}{4}$ " (740 ~ 895 mm)
 Height (Tripod): 30" ~ 53 $\frac{1}{4}$ " (765 ~ 1370 mm)
 Tripod: 2 section wooden collapsible tripod.

Accessories: Sun glass, Rotary diagonal prism, Erecting prism, 8 x 30 mm finder telescope.

TOWA OPTICAL MFG. CO., LTD. (Address Page 123)





TOWA AT2

Magnification: 40x, 64x, 88x, 132x
 Diameter of Objective Aperture: 60 mm
 Focal Length of Objective: 800 mm
 Eyepieces: 20 mm, 12.5 mm, 9 mm, 6 mm
 Weight
 Telescope: 3½ lbs (1.57 kg)
 Tripod: 3½ lbs (1.5 kg)
 Length: 29¼"~35¼" (740~895 mm)
 Height (Tripod): 29¼"~52¾" (740~1330 mm)
 Tripod: 2 section wooden tripod.
 Accessories: Sunglass, permitting direct visual observation of the sun.
 Diagonal prism for right angle viewing.

TOWA OPTICAL MFG. CO., LTD. (Address Page 123)



TOWA AT7

Magnification: 35x, 117x
 Diameter of Objective Aperture: 60 mm
 Focal Length of Objective: 700 mm
 Eyepieces: 20 mm, 6 mm
 Weight
 Telescope: 2¾ lbs (1.17 kg)
 Tripod: 3½ lbs (1.6 kg)
 Length: 27½"~28¾" (690~720 mm)
 Height (Tripod): 29¼"~52¾" (740~1330 mm)
 Tripod: 2 section wooden tripod.
 Accessories: Sunglass, Diagonal prism.

TOWA OPTICAL MFG. CO., LTD. (Address Page 123)



TOWA VT1 (ROTARY EYEPIECES)

Magnification: 20x, 40x, 60x
 Diameter of Objective Aperture: 60 mm
 Focal Length of Objective: 500 mm
 Weight
 Telescope: 2¾ lbs (1.27 kg)
 Tripod: 4¾ lbs (2.0 kg)
 Length: 29½"~30¾" (750~783 mm)
 Height (Tripod): 26¾"~57¼" (670~1450 mm)
 Tripod: 3 section wooden tripod.

TOWA OPTICAL MFG. CO., LTD. (Address Page 123)

TOWA VT3

Magnification: 15x, 30x, 45x
 Diameter of Objective Aperture: 45 mm
 Focal Length of Objective: 350 mm
 Weight
 Telescope: 1¾ lbs (0.5 kg)
 Tripod: 3¾ lbs (1.8 kg)
 Length: 20¼"~24¼" (516~613 mm)
 Height (Tripod): 28¾"~52¾" (730~1330 mm)
 Tripod: 2 section wooden tripod.

TOWA OPTICAL MFG. CO., LTD. (Address Page 123)



ASTRONOMICAL TELESCOPE

TOWA RET3

Magnification: 30x, 100x
 Diameter of Objective Aperture: 3"
 Focal Length of Objective: 600 mm
 Eyepieces: 20 mm, 6 mm
 Weight:
 Telescope: 3 $\frac{3}{4}$ lbs (1.7 kg)
 Tripod: 8 $\frac{1}{4}$ lbs (3.8 kg)
 Length: 2 $\frac{1}{2}$ ' (630 mm)
 Height: 2 $\frac{1}{4}$ ~2 $\frac{3}{4}$ ' (530~550 mm)
 Tripod: Elevator metal tripod.



TOWA OPTICAL MFG. CO., LTD. (Address Page 123)

BINOCULAR TELESCOPE



NIPPON KOGAKU BINOCULAR TELESCOPE

Type: 15x50, Binocular
 Magnification: 15x
 Diameter of Objective Aperture: 50 mm
 Real Field of View: 3.3°
 Exit Pupil: 3.3 mm
 Diopter Adjustment: Individual, +2~-4 dptr.
 Weight: 11 lbs (5 kg)
 Length: 18 $\frac{1}{8}$ " (460 mm)
 Width: 10" (250 mm)
 Mount: Table stand or tripod.

NIPPON KOGAKU K.K.

COIN-OPERATED TELESCOPE



PROMINAR

Type: 12 cm Coin Operated Marine Type
 Magnification: 20x
 Diameter of Objective Aperture: 120 mm
 Real Field of View: 3°
 Exit Pupil: 6 mm
 Diopter Adjustment: ~1 dptr. Fixed
 Weight: 171 lbs (77.6 kg) including mount.
 Length: 30 $\frac{1}{4}$ " (770 mm)
 Width: 10 $\frac{1}{4}$ " (270 mm)
 Mount: Height 56 $\frac{1}{8}$ " (1440 mm)
 Weight 78 $\frac{3}{4}$ lbs (35.5 kg)

KOWA CO., LTD. KOWA OPTICAL WORKS

COIN-OPERATED TELESCOPE

OFUNA

Magnification: 20x
 Diameter of Objective Aperture: 120 mm
 Real Field of View: 3°
 Exit Pupil: 6 mm
 Diopter Adjustment: +5.5~-5 dptr.
 Weight: 126 $\frac{1}{8}$ lbs (57.4 kg)
 Length: 31 $\frac{1}{4}$ " (800 mm)



OFUNA OPTICAL CO., LTD.

OBSERVATION TELESCOPES**12CM OBSERVATION
BINOCULAR TELESCOPE**

Type: Binocular.
Magnification: 20x
Diameter of Objective Aperture: 120 mm
Real Field of View: 3°
Exit Pupil: 6 mm
Diopter Adjustment: +2~-4 dptr.
Weight: 5½ lbs (24 kg) with
mount
Length: 27¼" (690 mm)
Width: 18" (460 mm)
Mount: York type rigid mount
with azimuth (0~180°) and elevation (-20°
~+90°) circles divided in 1°

NIPPON KOGAKU K.K.

**8CM OBSERVATION
BINOCULAR TELESCOPE**

Type: Binocular, 70° inclined
eyepieces
Magnification: 15x
Diameter of Objective Aperture: 80 mm
Real Field of View: 4°
Exit Pupil: 5.3 mm
Diopter Adjustment: +2~-4 dptr.
Weight: 38½ lbs (17.6 kg) with
mount
Length: 19¼" (490 mm)
Width: 11" (280 mm)
Mount: York type rigid mount
with azimuth (0~180°) and elevation (-20°
~+90°) circles divided in 1°.

NIPPON KOGAKU K.K.

**MONOCULAR TELESCOPE****NIPPON KOGAKU
MONOCULAR TELESCOPE**

Type: 13x80, Monocular
Magnification: 15x
Diameter of Objective Aperture: 80 mm
Real Field of View: 4°
Exit Pupil: 5.3 mm
Diopter Adjustment: -5~+10 dptr. approx.
Weight: 17¼ lbs (8 kg)
Length: 21¼" (550 mm)
Width: 6¾" (167 mm)
Mount: Table stand or tripod.

NIPPON KOGAKU K.K.

**SPOTTING SCOPE****PROMINAR**

Magnification: 25x
Diameter of Objective Aperture: 60 mm
Real Field of View: 1.9°
Exit Pupil: 2.4 mm
Relative Brightness: 5.8
Diopter Adjustment: -4~+10 dptr.
Interchangeable Eyepieces: 20x, 40x, 60x
Weight: 2½ lbs (1049 g)
Length: 17¼" (440 mm)
Width: 5¼" (135 mm)

KOWA CO., LTD. KOWA OPTICAL WORKS

**SPOTTING SCOPE****POLAREX SPOTTING SCOPE**

Magnification: 16x, 24x, 36x, 60x
Straight type & 45° offset type, either with revolving
eyepiece holder or with interchangeable ocular
holder.
Diameter of Objective Aperture: 60 mm
Real Field of View: 3°
Exit Pupil: 3.8 mm, 2.5 mm, 1.7 mm, 1 mm
Relative Brightness: 14, 6.3, 2.8, 1
Weight: 4½ lbs (1.9 kg)
Length: 17¼" (450 mm)

NIHON SEIKO KENKYUSHO, LTD. (Address Page 122)



RIFLE SCOPES

PROMINAR RIFLE SCOPE

Type: American type 4x
 Magnification: 4x
 Real Field of View: 5.8°
 Diameter of Objective Aperture: 31.8 mm
 Exit Pupil: 7.9 mm
 Eyering Distance: 3.1" (78.7 mm)
 (from the eyelens)
 Dia. of Tube: 1.004" (25.5 mm)
 Overall Length: 11 $\frac{3}{4}$ " (298.45 mm)
 Weight: $\frac{5}{8}$ lbs (269 g)
 Besides the above models, rifle scopes of following magnifications are available: 2.5x, 3x, 6x, 8x, 10x

KOWA CO., LTD.
 KOWA OPTICAL WORKS

PLUM RIFLE SCOPES

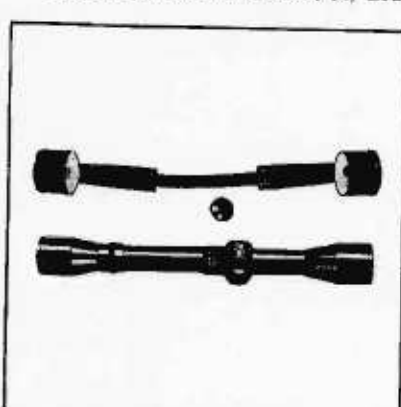
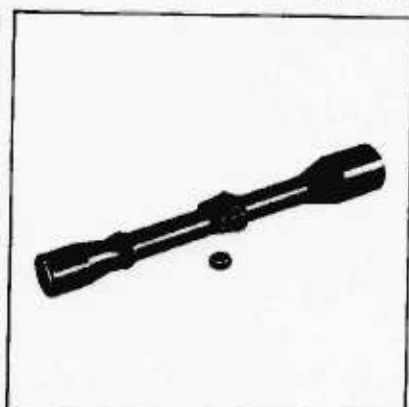
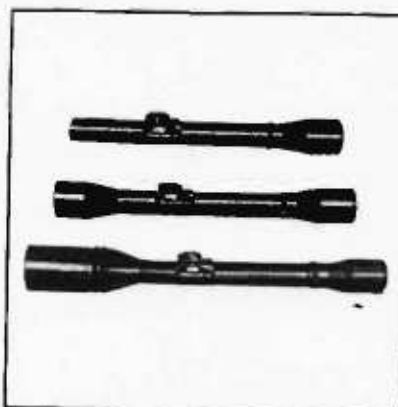
Type:	4x	12x
Magnification:	4x	12x
Field of View:	28 ft	11.3 ft
	(at 100yds)	(at 100yds)
Diameter of Objective Aperture:	31 mm	40 mm
Exit Pupil:	7.75 mm	3.3 mm
Eyering Distance:	91 mm	74 mm
(from the eyelens):		
Dia. of Tube:	1"	1"
Overall Length:	320 mm	343 mm
Weight:	270 g	340 g
Other Types:	2.5x, 6x, 9x, Vari Power (3x~7x) Vari Power (4x~9x)	

OMORI SOGO KOGAKU KOGYO
 CO., LTD.

ALOMA RIFLE SCOPES

Type:	4x	6x
Magnification:	4x	6x
Real Field of View:	5°30'	3°40'
Diameter of Objective Aperture:	32 mm	32 mm
Exit Pupil:	8 mm	5.3 mm
Eyering Distance:	65 mm	65 mm
(from the eyelens):		
Dia. of Tube:	1.002"	1.002"
Overall Length:	300 mm	300 mm
Weight:	280 g	280 g

TOKYO OPTICAL MFG. CO., LTD.



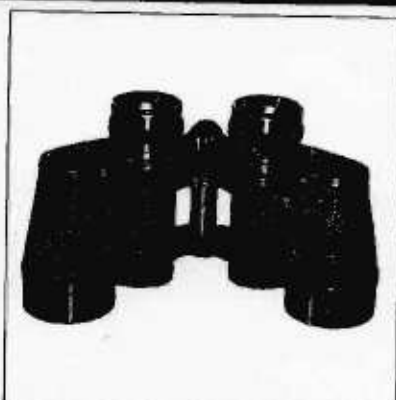
BINOCULARS



NIKON 9x35 COATED

Focusing: Central focusing.
 Magnification: 9x
 Diameter of Objective Aperture: 35 mm
 Real Field of View: 7°20'
 Exit Pupil: 3.9 mm
 Relative Brightness: 15.2
 Weight: 1 $\frac{1}{4}$ lbs (530 g)
 Height: 4 $\frac{3}{4}$ " (10.9 mm)
 Width: 7" (17.5 mm)

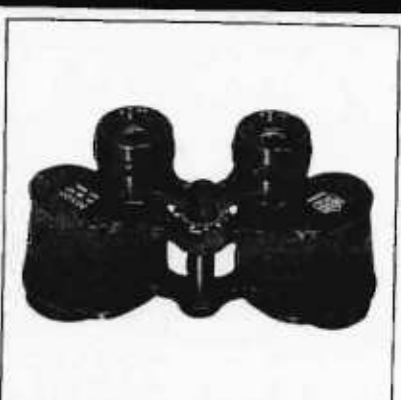
NIPPON KOGAKU K.K.



ALOMA 9x35 COATED

Focusing: Central focusing.
 Magnification: 9x
 Diameter of Objective Aperture: 35 mm
 Real Field of View: 8°
 Exit Pupil: 3.9 mm
 Relative Brightness: 15
 Weight: 1 $\frac{1}{4}$ lbs (650 g)
 Height: 4 $\frac{3}{4}$ " (120 mm)
 Width: 7 $\frac{1}{2}$ " (190 mm)

TOKYO OPTICAL MFG. CO., LTD.



NIKON 8x30 COATED

Focusing: Central focusing.
 Magnification: 8x
 Diameter of Objective Aperture: 30 mm
 Real Field of View: 8°30'
 Exit Pupil: 3.8 mm
 Relative Brightness: 14.4
 Weight: 1 $\frac{1}{4}$ lbs (500 g)
 Height: 3 $\frac{1}{4}$ " (9.7 mm)
 Width: 7" (17.5 mm)

NIPPON KOGAKU K.K.

BINOCULARS

OFUNA 8 × 40 COATED

Focusing: Central focusing.
Magnification: 8x
Diameter
of Objective Aperture: 40 mm
Real Field of View: 7.8°
Exit Pupil: 5 mm
Relative Brightness: 25
Weight: 1½ lbs (620 g)
Height: 5½" (141 mm)
Width: 7½" (190 mm)

NIKON 7 × 50 COATED

Focusing: Central focusing.
Magnification: 7x
Diameter
of Objective Aperture: 50 mm
Real Field of View: 7°16'
Exit Pupil: 7.1 mm
Relative Brightness: 50.4
Weight: 3½ lbs (1420 g)
Height: 7¼" (184 mm)
Width: 8¼" (210 mm)

3W-750 MIND BRAND 7 × 50
COATED

Focusing: Central focusing.
Magnification: 7x
Diameter
of Objective Aperture: 50 mm
Real Field of View: 10° (325 ft at 1000 yds)
Exit Pupil: 7.1 mm
Relative Brightness: 50
Weight: 2½ lbs (1080 g)
Height: 6¾" (170 mm)
Width: 7¾" (200 mm)

OFUNA OPTICAL CO., LTD.

NIPPON KOGAKU K.K.

TOHO PRECISION INSTRUMENT
CO., LTD.

BINOCULARS



NIKON 7 × 50 COATED

OFUNA 7 × 50 COATED

ZUIHO 7 × 50 COATED

Focusing: Individual focusing.
Magnification: 7x
Diameter
of Objective Aperture: 50 mm
Real Field of View: 7°16'
Exit Pupil: 7.1 mm
Relative Brightness: 50.4
Weight: 3½ lbs (1420 g)
Height: 7¼" (184 mm)
Width: 8¼" (210 mm)

Focusing: Central focusing.
Magnification: 7x
Diameter
of Objective Aperture: 50 mm
Real Field of View: 7.2°
Exit Pupil: 7.14 mm
Relative Brightness: 51
Weight: 2¾ lbs (1070 g)
Height: 4½" (115 mm)
Width: 8¼" (210 mm)

Focusing: Central focusing.
Magnification: 7x
Diameter
of Objective Aperture: 50 mm
Real Field of View: 7.1°
Exit Pupil: 7.14 mm
Relative Brightness: 50
Weight: 2¾ lbs (1010 g)
Height: 6¾" (176 mm)
Width: 8¾" (205 mm)

NIPPON KOGAKU K.K.

OFUNA OPTICAL CO., LTD.

ZUIHO OPTICAL INSTRUMENT
CO., LTD. (Address Page 125)

BINOCULARS

PROMINAR 7×35 COATED

Focusing: Central focusing.
Magnification: 7×
Diameter
of Objective Aperture: 35 mm
Real Field of View: 10°
Exit Pupil: 8 mm
Relative Brightness: 25
Weight: 1 $\frac{3}{4}$ lbs (790 g)
Height: 5 $\frac{1}{4}$ " (133 mm)
Width: 7 $\frac{1}{2}$ " (190 mm)

COMET 7×18 COATED

Focusing: Central focusing.
Magnification: 7×
Diameter
of Objective Aperture: 18 mm
Real Field of View: 7°
Exit Pupil: 2.57 mm
Relative Brightness: 6.6
Weight: $\frac{3}{8}$ lbs (225 g)
Height: 2 $\frac{1}{8}$ " (58 mm)
Width: 1 $\frac{3}{4}$ " (40 mm)

COMET 7×25 COATED

Focusing: Individual focusing.
Magnification: 7×
Diameter
of Objective Aperture: 25 mm
Real Field of View: 10°
Exit Pupil: 3.75 mm
Relative Brightness: 12.75
Weight: $\frac{7}{8}$ lbs (400 g)
Height: 3 $\frac{1}{4}$ " (80 mm)
Width: 2 $\frac{1}{2}$ " (55 mm)

KOWA CO., LTD.
KOWA OPTICAL WORKS



TOA OPTICAL CO., LTD.



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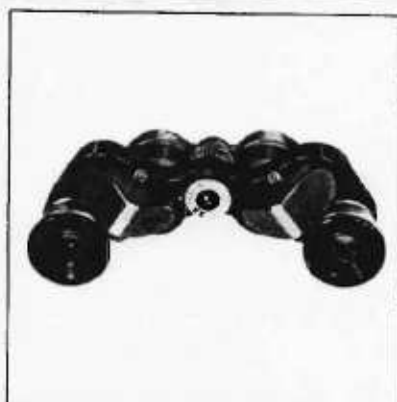
BINOCULARS



NIKON 7×35 COATED

Focusing: Central focusing.
Magnification: 7×
Diameter
of Objective Aperture: 35 mm
Real Field of View: 7-20°
Exit Pupil: 5 mm
Relative Brightness: 25
Weight: 1 $\frac{1}{4}$ lbs (510 g)
Height: 4 $\frac{3}{8}$ " (110 mm)
Width: 7 $\frac{1}{8}$ " (180 mm)

NIPPON KOGAKU K.K.



NIKON 7×15 COATED

Focusing: Central focusing.
Magnification: 7×
Diameter
of Objective Aperture: 15 mm
Real Field of View: 8°
Exit Pupil: 2.1 mm
Relative Brightness: 4.4
Weight: $\frac{1}{2}$ lbs (120 g)
Height: 1 $\frac{3}{4}$ " (44 mm)
Width: 4" (100 mm)

NIPPON KOGAKU K.K.



COMET 6×15 COATED

Focusing: Individual focusing.
Magnification: 6×
Diameter
of Objective Aperture: 15 mm
Real Field of View: 7°
Exit Pupil: 2.5 mm
Relative Brightness: 6.25
Weight: $\frac{3}{8}$ lbs (150 g)
Height: 1 $\frac{3}{4}$ " (49 mm)
Width: 1 $\frac{1}{2}$ " (32 mm)

TOA OPTICAL CO., LTD.

BINOCULAR**NIKON 5×15 COATED**

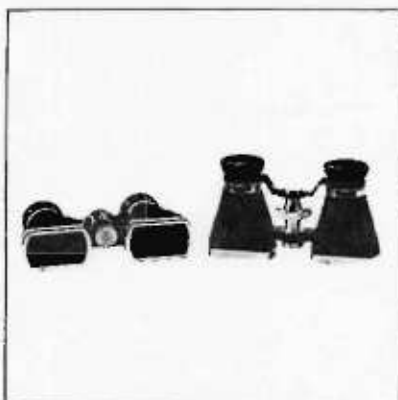
Focusing: Central focusing.
 Magnification: 5×
 Diameter of Objective Aperture: 15 mm
 Real Field of View: 9°30'
 Exit Pupil: 3 mm
 Relative Brightness: 9
 Weight: 1/4 lbs (120 g)
 Height: 2" (50 mm)
 Width: 4" (100 mm)

NIPPON KOGAKU K.K.

**OPERA GLASS****OFUNA 3×10 COATED (FLAT TYPE)**

Focusing: Central focusing.
 Magnification: 3×
 Diameter of Objective Aperture: 34 mm×18 mm
 Real Field of View: 10°
 Weight: 3/8 lbs (150 g)
 Height: 2 1/4"~2 3/8" (64~72 mm)

OFUNA OPTICAL CO., LTD.

**BINOCULAR ZOOM****V.B MIND BRAND 7~12× COATED**

Focusing: Central focusing.
 Magnification: 7~12×
 Diameter of Objective Aperture: 50 mm
 Real Field of View: 7°, 8°, 9°, 10°, 11°, 12°
 6', 6", 5.7', 5.5", 5.4", 5.3"
 Exit Pupil: 7×, 8×, 9×, 10×, 11×, 12×
 7.1mm, 6.25mm, 5.35mm, 5.0mm, 4.54mm, 4.17mm
 Relative Brightness: 50 at 7×
 Weight: 3 3/8 lbs (1450 g)
 Height: 8 3/4" (220 mm)
 Width: 8 1/4" (215 mm)

TOHO PRECISION INSTRUMENT CO., LTD.

**BINOCULAR WITH TRANSISTOR RADIO****OR-401 7×35 COATED**

Focusing: Central focusing.
 Magnification: 7×
 Diameter of Objective Aperture: 35 mm
 Real Field of View: 3.5°
 4 Transistor radio with speaker
 Weight: 1 3/8 lbs (530 g)
 Height: 4 1/4" (120 mm)
 Width: 5 3/4" (150 mm)

TOHO PRECISION INSTRUMENT CO., LTD.

**BR-310S 7×50 COATED**

Focusing: Central focusing.
 Magnification: 7×
 Diameter of Objective Aperture: 50 mm
 Real Field of View: 7.1°
 Exit Pupil: 7.1 mm
 Relative Brightness: 50
 3 Transistor radio with speaker
 Weight: 2 3/4 lbs (1200 g)
 Height: 7 1/4" (180 mm)
 Width: 7 3/4" (200 mm)

TOHO PRECISION INSTRUMENT CO., LTD.











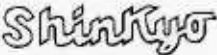







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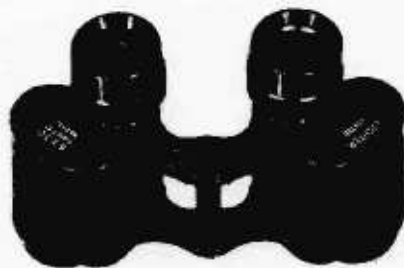
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S

Hexanon $f/1.8$ 48 mm lens. Shutter speed: 1 to 1/500 second and B. Built-in selftimer. Range-viewfinder. MX synchroflash setting. Fully coupled exposure meter. Film advance and shutter cocking in one stroke.

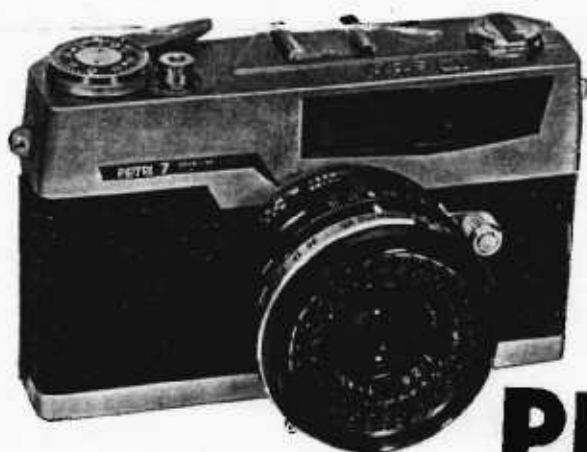
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Take your pick... They're all the best in their class



**PETRI
E. Bn 1.9**

★ Zero-method Reflection type Fully-coupled Electric Exposure Meter ★ Super-fast Petri 55mm F1.9 Lens ★ Petri Full-synchronization Shutter with speeds: B, 1-1/200 sec. ★ Built-in Self-timer



**PETRI 1.9
Green-O-Matic**

★ Sharp ORIKKOR F1.9 55mm. Lens ★ Green-O-Matic Viewing and Focusing ★ Automatic Parallax Compensation ★ Full-Synchronization Shutter with speeds: B, 1-1/200 second ★ Built-in self-timer



PETRI COMPACT E

★ Built-in Exposure Meter ★ Half-size Compact Camera ★ Bright & Easy Green Viewing ★ Sharp ORIKKOR F1.9 Lens ★ Handy Trigger Lever operation ★ Feather-Touch PETRI S Shutter ★ Parallax Marking for Close-up Shot.



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NIPPON KOGAKU K.K.



Historical Background

The Nippon Kogaku K. K. is the oldest optical company in Japan, and enjoys a very high reputation throughout the world. The history of the Nippon Kogaku K. K. is also the history of the development of Japan's optical industry, for the foundation of the Company dates back to July, 1917, when the country's optical industry was still in its infancy.

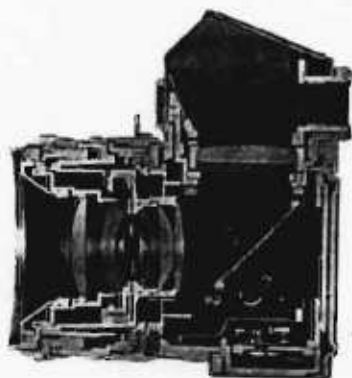
Quality First and Diversity of Products

The Company has always in its business policy placed quality before everything else with the result that this doctrine of quality first is deeply rooted in the minds of its technicians, who maintain a most rigid standard of tests and inspection, which allows no second class articles to be included in the array of the Company's commodities. Such a quality-consciousness characterizes the enterprise of the Nippon Kogaku, which is always mindful of betterment of its merchandise through quality control.

Another outstanding feature of the Company's enterprise is that it has taken up manufacture of a variety of items. Such a many-sided manufacturing policy is typical of the Company, and allows it to cater to the diversified demands of the market, and at the same time affords it an opportunity to foster and preserve the wide range of its technical knowledge and efficiency.

Glassmaking

The Company's executives in its early days may justly be given credit for their insight in deciding to undertake the melting of its own optical glass, for that decision had a far-reaching effect on the current success of the Company in turning out the high grade products which have received high commendation everywhere.



Cut-away of
Nikon 

SHINAGAWA, TOKYO, JAPAN

MeNan

SPOTTING SCOPES



20 × 50 mm (Wide-Field)

20 × 50 mm (Semi-Wide)

25 × 50 mm

30 × 50 mm

RIFLE SCOPES



(ZOOM)

4 × ~ 8 × 32 mm

3 × ~ 8 × 32 mm

2.5 × ~ 7 × 31 mm



(FIXED)

2.5 × 31 mm

4 × 32 mm

6 × 32 mm

8 × 32 mm

MICRO-TYPE BINOCULARS

Magnification	Diameter of Objective
6 × L. F.	15 mm
6 × C. F.	15
7 × L. F.	18
7 × C. F.	18
8 × L. F.	20
8 × C. F.	20
10 × L. F.	25
10 × C. F.	25
1 × W. I. F.	23
1 × W. C. F.	23
7 × C. F.	20
8 × W. C. F.	25
10 × W. I. F.	30
10 × W. C. F.	30
15 × W. C. F.	40



6 × 15 C. F.



7 × 23 C. F.

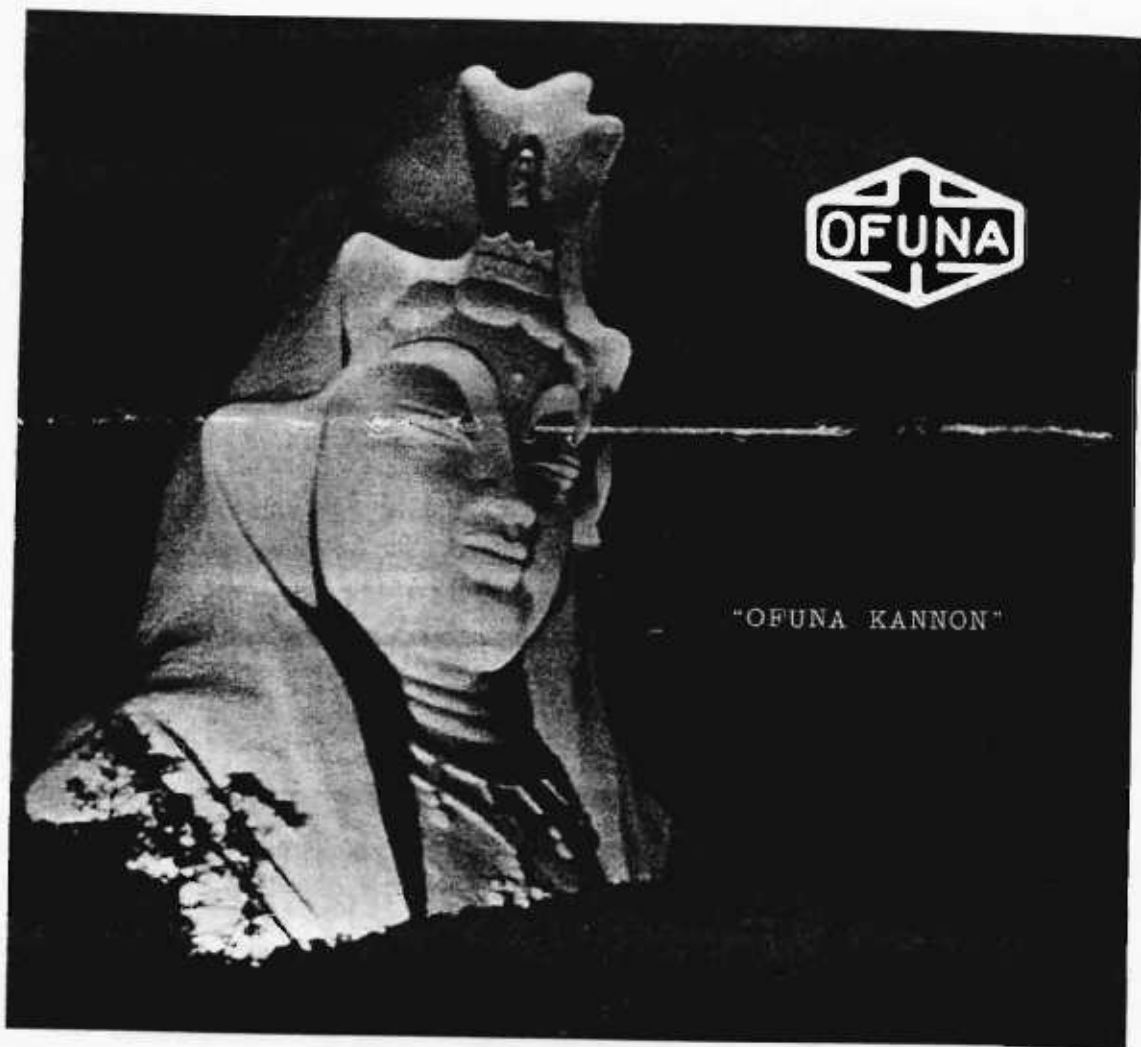


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HIGH QUALITY

BINOCULARS & RIFLE SCOPE

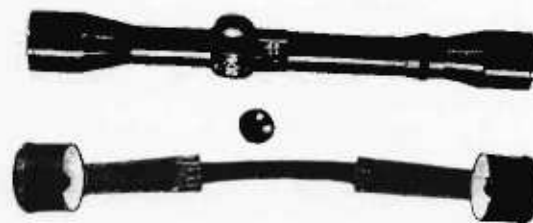


Prismatic all central focusing

7×35 z.	Wide Field	10.1
8×40 z.	" "	8.5
9×35 z.	" "	8.0
10×30 z.	" "	7.3
7×35 B & L.	" "	11

z. & B & L. Type

8×30	10×50
7×35	12×50
8×40	16×50
7×50	20×50



4×14
4×32
6×32
8×32



Field 3.50'
" 5.30'
" 3.40'
" 2.50'

TOKYO OPTICAL MFG. CO., LTD.

No. 892 Nukuicho, Nerima-ku, Tokyo

