



*6x6 single-lens
reflex camera*
Kowa/SIX



LEAF-SHUTTER TYPE
MOBILE 6 x 6 SLR
2-1/4 SQUARE



The Kowa/SIX is a 6 x 6 SLR of the leaf-shutter type. It is a large-format camera. However, it may be described as a compact large-format camera beyond expectations. The camera may be held and fits both hands. There is no fear of camera shake even when it is held in the hands. The Kowa/SIX is ruggedly built for a lifetime of hard use. It is a camera built for professional use.

To give full play to the mobility of a 6 x 6 SLR, Kowa's technical staff has come up with this unique SLR on the basis of over twenty years experience. The mobility of this camera makes it highly rated among professionals and semi-professionals throughout the world.

FULLY SYNCHRONIZED
WITH ELECTRONIC FLASH UNIT
AT HIGH SHUTTER SPEEDS



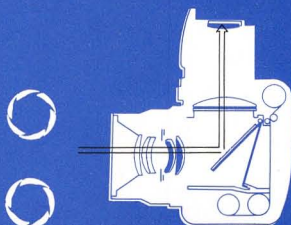
As the Kowa/SIX is of the leaf-shutter type, it is fully synchronized with electronic flash and flash bulbs at shutter speeds of up to 1/500 sec. This high efficiency in flash synchronization is something which cannot be expected of cameras of the focal plane shutter type. The camera displays its superb performance at high shutter speeds in electronic flash photography.



SHOCKLESS MECHANISM PREVENTS CAMERA JAR WHEN HAND HELD

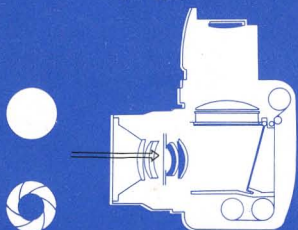


1. Before the shutter-release button is pressed . . .



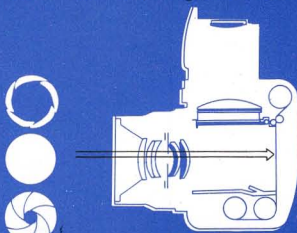
the shutter and diaphragm are open: the mirror and light-baffle are in viewing position.

2. When the shutter-release button is pressed . . .



the shutter closes: the diaphragm begins to close-down: the mirror and light-baffle begin to swing up.

3. Then . . . with the diaphragm closed-

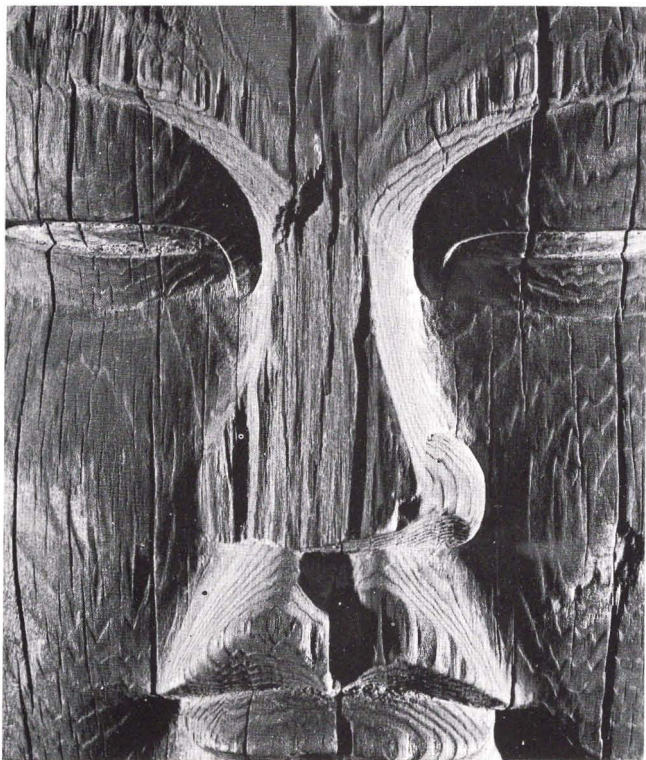


down to the selected f/stop and the mirror and light-baffle in the up position, the shutter exposes the film.

Because of the incorporation of the leaf shutter system, shutter shock has been eliminated. As the Kowa/Six does not use the quick mirror return system and has incorporated the newly designed built-in air damper, the shock of the mirror and light shading plate has further been reduced. Therefore, it has become possible to take razor sharp pictures with the camera held in the hands.

* All lenses for the Kowa/SIX employ advanced SEIKO SLV between-the-lens leaf shutters. All of the lenses offer speeds from 1 to 1/500, plus T, M and X flash synchronization at all shutter speeds, and a self-timer. The shutter speed scale is of even interval with click-stops at each speed. The shutter release button has a lock.

KOWA SERIES OF INTERCHANGEABLE LENSES FEATURING SUPERB RESOLVING POWER AND COLOR BALANCE



In the last 20 years or so, as a lens manufacturer, Kowa has turned out a wide variety of products such as cine lenses, special optical lenses and numerous optical instruments, including the Kalloflex, and its products are rated highly for their superb quality.

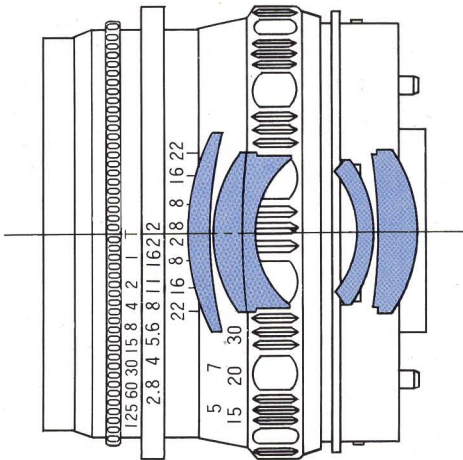
Each one of the Kowa series of lenses prepared for the Kowa/SIX has been crystalized on the basis of Kowa's unique technological development.

They feature excellent resolving power and color balance.

85 mm f/2.8 standard

The standard lens is KOWA 85mm f/2.8, composed of 5 elements in 4 groups Xenotar type, equipped with between-the-lens leaf-shutter SEIKO SLV #0. Taking angle of standard lens is $50^{\circ}20'$, which is equivalent to that of 46mm lens in 35mm camera.

In a single lens reflex camera it is necessary that the standard lens has a relatively long flange back compared with its focal length, and it is because of this requirement lens correction is difficult. The standard lens KOWA 85mm f/2.8 is corrected with such nicety that despite having sufficient flange back, it leaves minimum spherical, astigmatic and distortional aberration. Also, there is the least image curvature and coma flare. It gives an exceptionally sharp and high contrast image even at full aperture from the center to the marginal edge.



The diaphragm consist of 5 leaves and is pentagon in shape. These leaves are colored black under special treatment which prevents internal reflection. The lens is given selected coating of magenta and amber according to curvature and material, as a result flare is reduced and color rendition is superb. Minimum focusing distance is 0.8m, minimum aperture is f/22 and aperture scale is equipped with click-stops at each half f/stop.



35mm

Maximum aperture $f/4.5$ Focal length $f=35\text{mm}$ Taking angle 98° Construction 10 elements in 8 groups, retrofocus type Focusing distance range $0.4-\infty\text{ m}$ ($1.3-\infty\text{ ft}$) Aperture range $f/4.5-32$ Filter size 95mm (front, screw-in) or 33mm (rear, attached filter holder — for gelatine filter)



40mm

Maximum aperture $f/4$ Focal length $f=40\text{mm}$ Taking angle 90° Construction 9 elements in 7 groups, retrofocus type Focal distance range $0.4-\infty\text{ m}$ ($1.3-\infty\text{ ft}$) Aperture range $f/4-32$ Filter size 95mm (front, screw-in) or 33mm (rear, attached filter holder for gelatine filter)



55mm

Maximum aperture $f/3.5$ Focal length $f=55\text{mm}$ Taking angle 72° — Construction 8 elements in 7 groups, retrofocus type Focusing distance range $0.5-\infty\text{ m}$ ($1.5-\infty\text{ ft}$) Aperture range $f/3.5-22$ Filter size 67mm

500mm

Maximum aperture $f/8$ Focal length $f=500\text{mm}$ Taking angle 9° Construction 7 elements in 6 groups, telephoto type Focusing distance range $8-\infty\text{ m}$ ($26-\infty\text{ ft}$) Aperture range $f/8-45$ Filter size 95mm



19mm

Maximum aperture $f/4.5$ Focal length $f=19\text{mm}$ Taking angle 180° Construction 14 elements in 9 groups, retrofocus type Focusing distance range $0.4-\infty\text{ m}$ ($1.3-\infty\text{ ft}$) Aperture range $f/4.5-22$ Filter size 37.5mm square (attached filter holder for gelatine filters)

110mm

Maximum aperture f/5.6 Focal length f=110mm Taking angle 40° Construction 5 elements in 4 groups, Xenotar type Focusing distance range 0.8-∞ m (2.75-∞ ft) Aperture range f/5.6-Filter size 67mm



150mm

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Maximum aperture f/3.5 Focal length f=150mm Taking angle 29.5° Construction 5 elements in 4 groups, Sonnar type. Focusing distance range 1.5-∞ m (5-∞ ft) Aperture range f/3.5-22 Filter size 67mm



250mm

Maximum aperture f/5.6 Focal length f=250mm Taking angle 18° Construction 6 elements in 5 groups, telephoto type Focusing distance range 4-∞ m (12-∞ ft) Aperture range f/3.5-22 Filter size 67mm



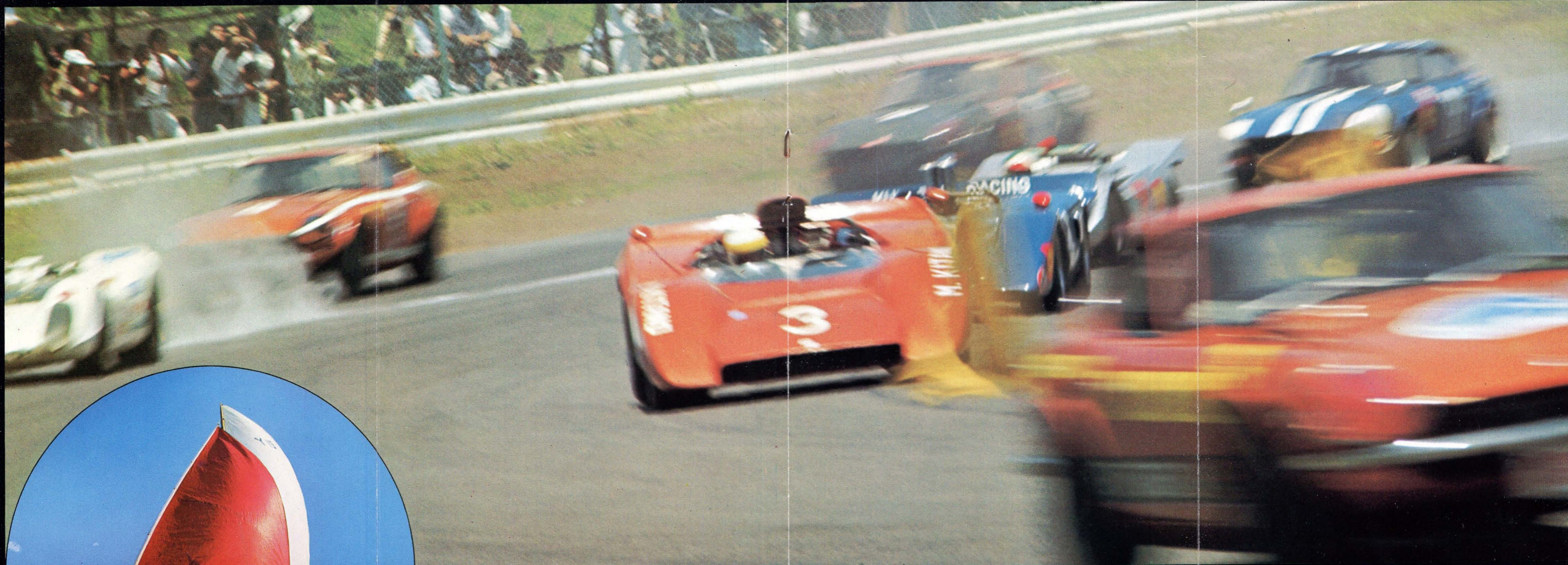
* Each lens features

an aperture scale of even interval with click-stops at each half f/stop; fully automatic diaphragm operation; helical focusing; "R" infra-red setting mark; depth-of-field preview lever.

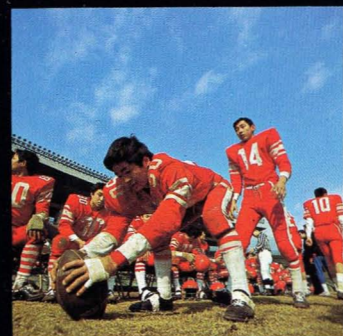
* Each lens is equipped with

a between-the-lens SEIKO SLV #0 leaf-shutter T. 1-1/500 sec. with MX contact and self-timer.

500mm



19mm



35mm



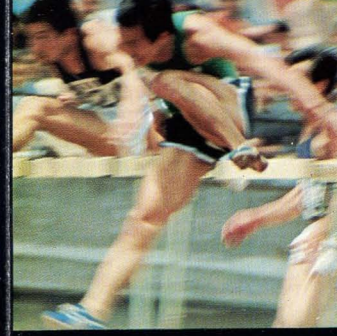
40mm



55mm



150mm

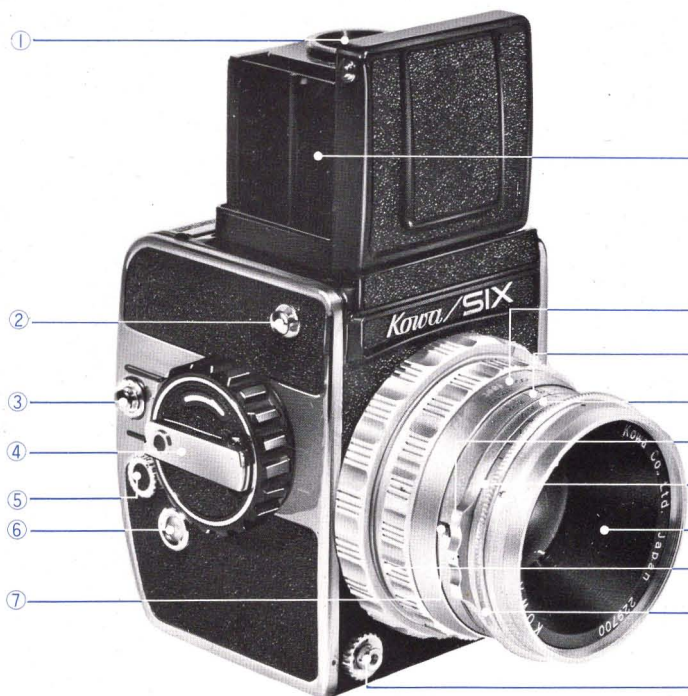


250mm



110mm

PARTS DESCRIPTION



- ① Viewing magnifier, interchangeable
- ② Strap stud, front
- ③ Strap stud, rear
- ④ Film & shutter knob/flip-out crank
- ⑤ 12/24 frame counter selection knob
- ⑥ Automatic zero-rest 12/24 frame counter
- ⑦ Depth-of-field preview lever
- ⑧ Removable finder hood
- ⑨ Distance scale
- ⑩ Depth-of-field scale
- ⑪ Aperture scale
- ⑫ Aperture selection ring
- ⑬ Shutter speed scale
- ⑭ Standard 85mm f/2 lens
- ⑮ Focusing ring
- ⑯ Shutter speed selection ring
- ⑰ Shutter release button

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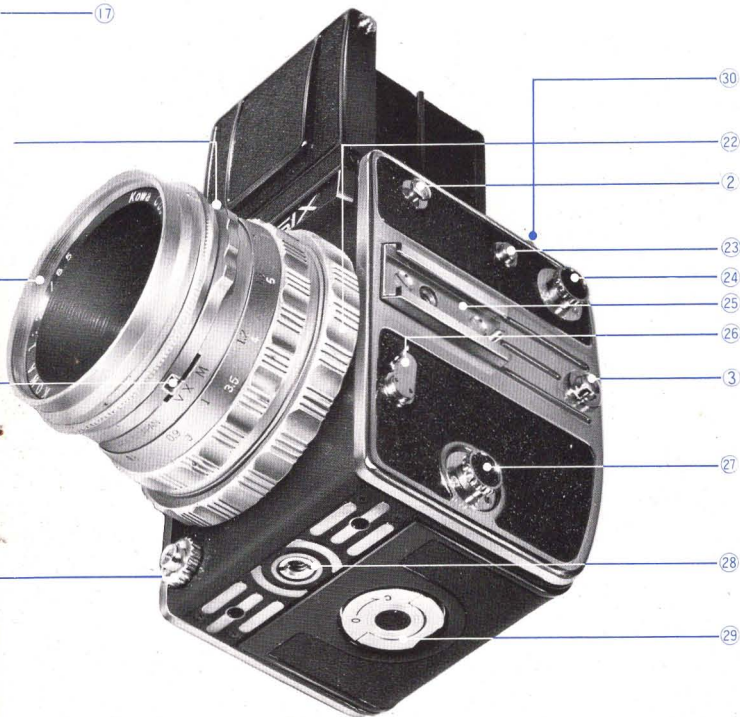
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- ⑧ Flash synchro terminal
- ⑨ Filter mount threads
- ⑩ M/X flash synchronization and self-timer selection lever
- ⑪ Shutter release button lock ring
- ⑫ Lens locking collar
- ⑬ Interchangeable finder hood release button
- ⑭ Take-up spool knob
- ⑮ Accessory shoe
- ⑯ Lens locking lever
- ⑰ Feed spool knob
- ⑱ Tripod mount
- ⑲ Camera back locking knob
- ⑳ Camera back locking lever

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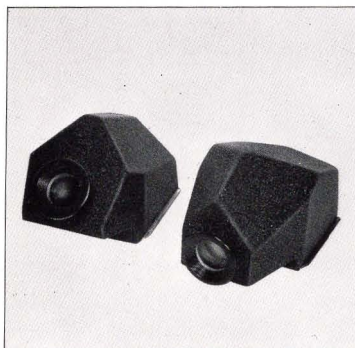
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ACCESSORIES

Two types, horizontal and 45° viewing are available. Both produce an erect, unreversed image. The field-of-view ratio is 90%. Image magnifications are 0.7X (horizontal) and 0.8X (45°).

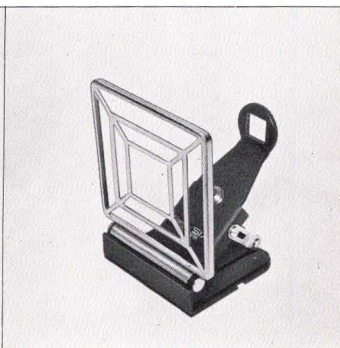
Eyesight: -1D. Suitable for outdoor snaps and action pictures. They may be attached to the body in place of the standard finder hood.

Prism finder



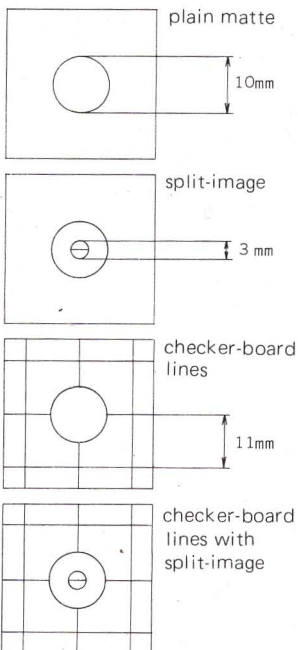
This is used in eye-level shooting. It has three frames of the see-through type for 55, 85 and 150mm lenses. It is best suited for sports, action shooting and news photography.

Sports finder



Interchangeable Viewing Screens

Four types of viewing screens are available for KOWA/SIX. They may be selected and used according to the subject and purpose. They are shown in the diagrams on the right.



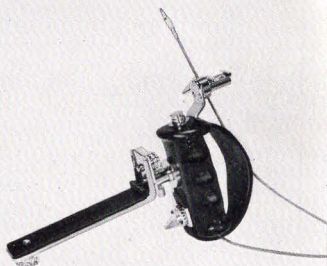
This finder has a built-in thru-the-lens exposure meter of full aperture measurement. It may also be used as a magnifying hood. Metering range EV2-17 (at ASA 100, f/2.8): field-of-view ratio is 90% and image magnification 1 X. Zero method. Coupling with lens aperture and film sensitivity.

Proofed against extraneous light. Clear image may be observed in bright outdoors. Easy focusing. Field-of-view ratio 90%. Image magnification 0.8 X. Eyesight correction range -4—+3D.

Exposure Finder

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Magnifying Hood



Hand Grip

Free Angle Hand Grip

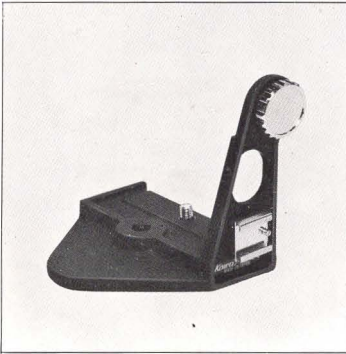
Attached to body accessory shoe. Grip comfortable and stable with adjustable band. Thumb pressing shutter button with cable release coupled to camera body.

Pivotal tilting type hand grip with stop screw. Other specifications are the same as Hand Grip. With the L-bracket, it may be used with other cameras. The stroke of the cable release is adjustable.

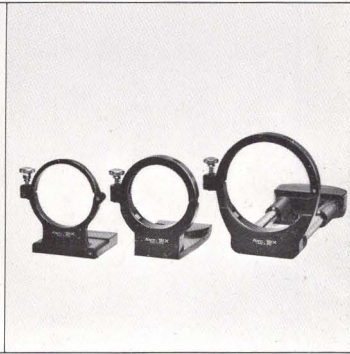
Providing added stability, the Tripod Head is attached to the accessory shoe and tripod mount and permits film changing with the camera still mounted on the tripod. Screw sizes are in two types U1/4 and U3/8.

Three types for 19mm, 250mm and 500mm lens. Bracket is attached to the tripod mount and the ring is clamped to hold steady the lens barrel. Screw sizes are in two types U1/4 and U3/8.

Tripod Head



Lens Holders



Focusing Handle

Used for quick focusing, the Focusing Handle attaches to the focusing ring of all Kowa/SIX lenses. Best suited for sports and news photography.



Interchangeable Magnifier

Fits the Standard Panel-type Finder Hood interchangeable for eyesight correction. In addition to the standard -2D, there are 7 types -4, -3, -1, 0, +1, +2 and +3D. Bayonet fitting.

Available in three types, they may be used individually or in any combination for close-up photography. Automatic shutter and diaphragm operation are maintained.

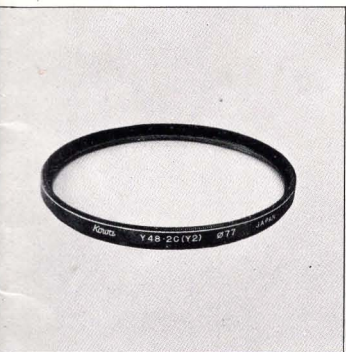
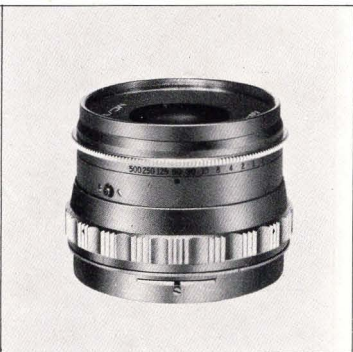
lens ring	minimum focusing distance				magnification			
	55mm	85	110	150	55mm	85	110	150
T1 75	28cm	33	43	63	1.6 x	1.0	0.9	0.6
T2 32	27	37	48	78	0.8	0.5	0.5	0.4
T3 16	30	44	56	95	0.5	0.3	0.3	0.2

Extention Tubes



Easy handling provides sharp micro-photography because of clear finder-view, built-in SEIKO SLV shutter. May be attached to camera body in the same way as camera lens and used in its place. Used in conjunction with microscope. Accurate exposures are obtained with the thru-the-lens exposure meter.

Microscope Adapter



Filters

filter effect	type
ultra-violet cut	UV (for B&W) 1A (for color)
contrast	Y2, O2, RO, R1, POO
color temperature conversion	80A, 80B, 81B, 82C, 85A, 85C
light reducing	ND4

*filter size: 67mm, 77mm, 86mm and 95mm, screw-in

Lens Hoods

Metal constructed non-reflecting for each lens. Suitable for against-the-light seascapes and mountain photography.

Kowa/SIX specifications

Type:	Leaf-shutter 2-1/4 square (6 x 6) single-lens reflex camera.
Film Acceptance:	120 (12 exposure) or 220 (24 exposure) roll film; flip-over 12/24 pressure plate.
Standard Lens:	Kowa 85mm f/2.8.
Lens Mount:	Positive Kowa bayonet with locking-collar; mount/dismount lever.
Shutter:	#0 SEIKO SLV between-the-lens leaf-shutter; 1-1/500 sec., Plus T; self-timer; M and X flash synchronization at all speeds. Same for all lenses.
Focusing:	Direct helicoid type.
Viewing System:	Interchangeable through-the-lens system. Standard system includes waist-level finder hood with interchangeable pop-up magnifier, matte fresnel viewing screen with fine ground plate focusing spot.
Diaphragm:	Fully automatic; depth-of-field preview lever. Same for all lenses.
Film Wind:	360° knob with flip-out crank advances film and winds shutter; stops automatically on first frame; automatic double-exposure prevention.
Frame Counter:	Automatic zero-reset; 12/24 selection.
Camera Back:	Hinged and removable.
Dimensions:	137 x 116 x 157 mm. (5-3/8" x 4-5/16" x 6-3/16")
Weight:	1,700 grams. (3 lb 12 oz)

Kowa Company, Ltd.

HEAD OFFICE:

No. 6-29, 3-chome, Nishiki, Naka-ku, Nagoya, Japan

ELECTRONICS and OPTICS DIVISION:

No. 3, 3-chome, Nihonbashi-honcho, Chuo-ku,
Tokyo 103, Japan.

CAMERA and OPTICS DIVISION

Kowa American Corp.

45 West 34th Street New York, N. Y. 10001