



*Optical Works*

# OTAKE & CO., LTD.

No. 17, 2-Chome, Sugamo, Toshima-ku, Tokyo, Japan.

Cable Address : " OtakePINES "



# BINOCULARS



## VESPER

**is the trade mark of  
OTAKE & CO., LTD.  
the symbol all optical  
Instruments and is  
registered in Japan  
patent office.**

Have, in the thirty years since their manufacture was started, acquired a reputation as front rank high quality glasses.

Owing to their outstanding qualities and strong construction, **VESPER** binoculars have been adopted, after severe test as specified by the Japanese Ministry of International Trade and Industry. Our Field Glasses can be supplied in the usual two models.

### **A. Individual Focusing of the Eyepieces**

The observer can quickly adjust the two eyepieces separately to get the greatest variation of acuteness of vision of his eyes by means of the diopter divisions. This fine adjustment must be made when viewing distant objects. There is no need to make fresh adjustments, as the glasses are generally used only for viewing objects situated at a distance.

### **B. Centre Focusing of the Eyepieces**

These models allow of simultaneous adjustment of both eyepieces by means of a focusing screw situated in the centre. In addition, one eyepiece can be adjusted independently, in order to equalize any difference in acuteness of vision in the two eyes. Exact instructions for use are enclosed with each pair of glasses.

### **Hard coating on the lenses**

Of course, we supply all field glasses with hard coating applied on the lenses and prisms. This hard coating on the insides of eyepiece and objective lenses can withstand all possible factors, and internal coating makes the lenses purple for increased brilliance and clarity.

### **Cases**

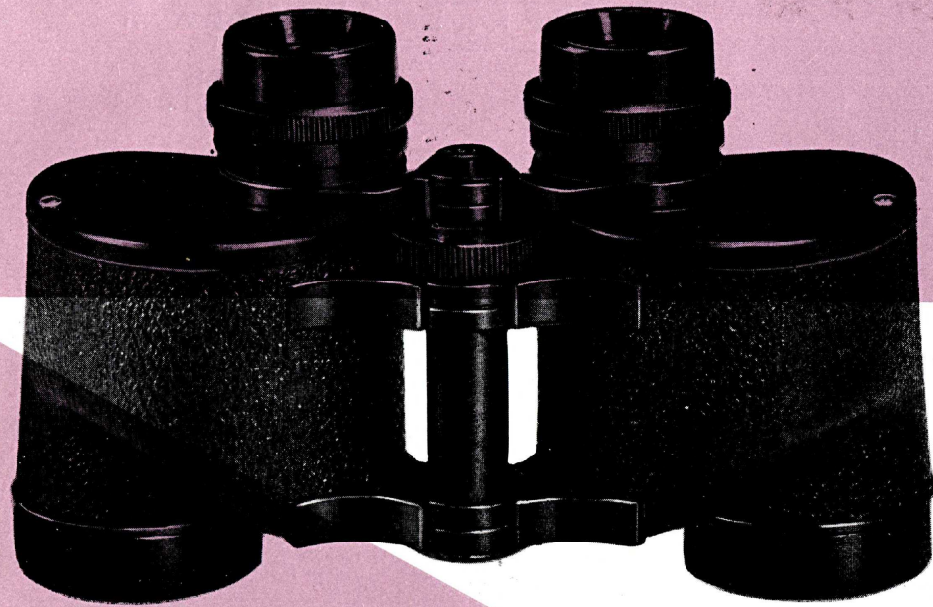
All field glasses are provided with neck sling and are supplied with an elegant pigskin leather case or fine cowhide leather case. All cases have two part adjustable carrier straps, for carrying by hand or for slinging.

### **Guarantee**

We fully guarantee solid, lasting construction and adjustment of our prismatic binoculars. Only the best optical glass and best quality raw materials are used.

# WIDE FIELD

BINOCULARS



**B & L TYPE**  
**EXTRA WIDE FIELD**  
**7 POWER 35 MM**

This field glass, is the finest binocular of many glasses, accurately engineered with various specific features for all purpose and originally designed for Hunters, Sportsmen who often need superative image clearty, very sharp difinition and more area.

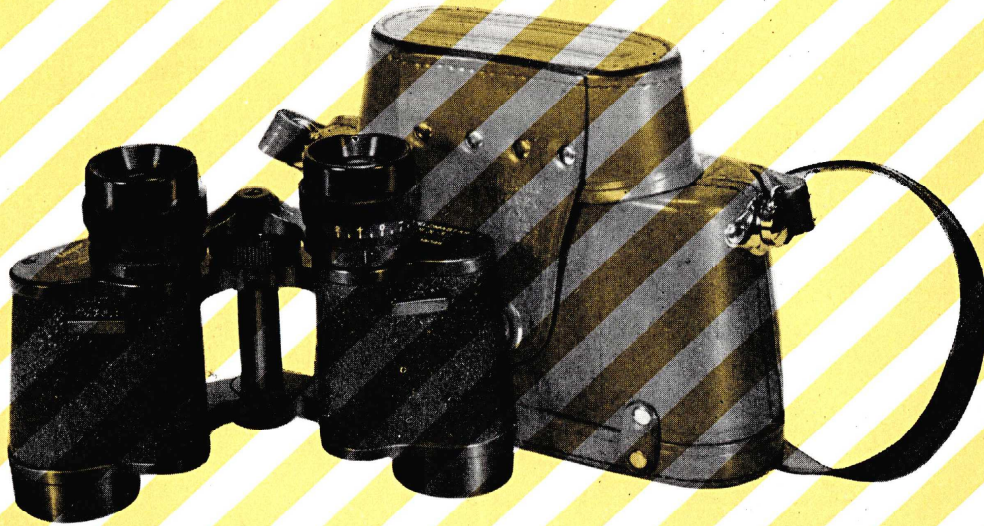


**ZEISS TYPE**  
**10 POWER 50MM-POWER PLUS**

High power for very sharp definition over great distances, lightweight, compact, Preferred by big game Hunters, Mountain climbers.



# ORDINARY BINOCULARS



**ZEISS TYPE  
8 POWER, 30MM.**

A favorite with those who prefer a high magnification, which is often desirable; you will find in these glasses superior definition combined in a remarkable manner with all important optical features.



**B & L TYPE  
7 POWER, 35MM.**

This glass with the large exit pupil of 5 mm., owing to its exceptional light intensity, will give good service especially in use at dusk or in dark weather.

# VESPER PRISMATIC BINOCULARS

## SPECIFICATION



### Optical Data

### Packing Details

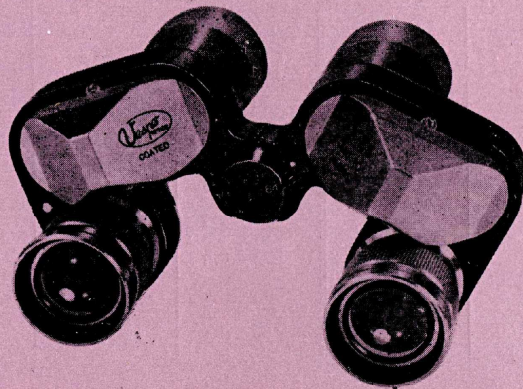
Type	Magnification	Effective Diameter of Objectives	Diameter of Exit Pupil	Field of view		Height		Weight		Content in One package	Gross Weight	Measurements
				Angular	at 1000 Yards	With case	Without case	With case	Without case			
Zeiss	6x	30 mm	5 mm	7.5°	393 feet	145 mm	113 mm	31.4 oz	18.7 oz	50 Pairs	159.7 lbs	8.74 Cu'ft
	8x	30 mm	3.75 mm	7.5°	393 feet	145 mm	113 mm	32.1 oz	19.4 oz	50 Pairs	168.7 lbs	8.74 Cu'ft
	7x	35 mm	5 mm	6.5°	341 feet	140 mm	121 mm	37.0 oz	23.0 oz	50 Pairs	181.8 lbs	10.55 Cu'ft
	7x	50 mm	7.1 mm	7.1°	368 feet	195 mm	177 mm	52.3 oz	33.6 oz	25 Pairs	143.4 lbs	8.74 Cu'ft
	10x	50 mm	5 mm	6°	314 feet	195 mm	177 mm	54.0 oz	35.3 oz	25 Pairs	146.1 lbs	8.74 Cu'ft
	12x	50 mm	4.1 mm	5.5°	385 feet	195 mm	177 mm	54.7 oz	36.0 oz	25 Pairs	147.1 lbs	8.74 Cu'ft
	16x	50 mm	3.1 mm	4°	209 feet	205 mm	190 mm	55.5 oz	36.4 oz	25 Pairs	145.2 lbs	8.74 Cu'ft
B & L	6x	30 mm	5 mm	7.5°	393 feet	140 mm	115 mm	30.9 oz	18.4 oz	50 Pairs	158.2 lbs	8.74 Cu'ft
	8x	30 mm	3.75 mm	7.5°	393 feet	140 mm	115 mm	31.9 oz	19.4 oz	50 Pairs	161.4 lbs	8.74 Cu'ft
	7x	35 mm	5 mm	7°	367 feet	146 mm	120 mm	36.2 oz	21.2 oz	50 Pairs	174.7 lbs	8.74 Cu'ft
	7x	40 mm	5.7 mm	7°	367 feet	160 mm	140 mm	43.8 oz	26.5 oz	25 Pairs	130.1 lbs	7.12 Cu'ft
	8x	40 mm	5 mm	7°	367 feet	160 mm	140 mm	43.8 oz	26.5 oz	25 Pairs	130.1 lbs	7.12 Cu'ft
	7x	50 mm	7.1 mm	7.1°	368 feet	197 mm	155 mm	55.8 oz	37.0 oz	25 Pairs	148.9 lbs	8.74 Cu'ft
	10x	50 mm	5 mm	6.5°	341 feet	197 mm	155 mm	56.2 oz	37.4 oz	25 Pairs	149.6 lbs	8.74 Cu'ft
	12x	50 mm	4.1 mm	5.5°	285 feet	197 mm	155 mm	56.5 oz	37.8 oz	25 Pairs	150.0 lbs	8.74 Cu'ft
	16x	50 mm	3.1 mm	4°	209 feet	207 mm	165 mm	57.5 oz	38.8 oz	25 Pairs	151.4 lbs	8.74 Cu'ft
Small	6x	15 mm	2.5 mm	8°	419 feet	60 mm	48 mm	8.7 oz	5.3 oz	150 Pairs	125.6 lbs	5.10 Cu'ft
	7x	18 mm	2.59 mm	6.6°	430 feet	60 mm	48 mm	8.7 oz	5.3 oz	150 Pairs	125.6 lbs	5.10 Cu'ft
	8x	20 mm	2.5 mm	5°	260 feet	86 mm	71 mm	7.0 oz	5.6 oz	150 Pairs	128.7 lbs	5.10 Cu'ft
	10x	20 mm	2 mm	4°	210 feet	89 mm	73 mm	8.2 oz	5.6 oz	150 Pairs	128.7 lbs	5.10 Cu'ft



**ZEISS TYPE  
7 POWER 50 MM**

This superative field glass, with magnification of 7 diameters and large objective lenses, owing to its great light gathering capacity, is perfect for moderate distance. The latgest exit pupil of 7.1, mm., make it much more efficient for the human eye. Excellent features of this glass can be realized in day ond night, especially marine use.

**WIDE FIELD**



**7 POWER 25 MM**

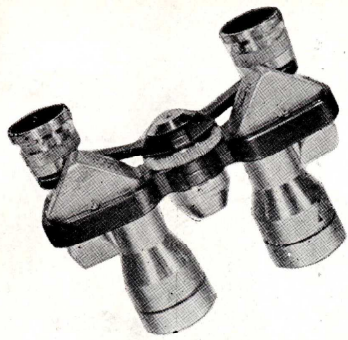
This widest field glass perfectly balanced for high power, its wonderful objective lenses, light weight of pocket size. Exceptional clarity and sharp detail mark this model with indential power of  $7 \times 50$  but special-wide-anglar  $11^\circ$ .



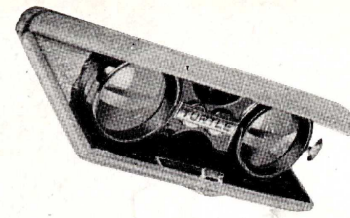
**B & L TYPE  
10 POWER 50 MM**

This large Field Glass, is expertly engineered for very sharp definition over great distances. Its crystal combination of large objective lenses and its magnification is perfectly balanced for long range viewing.

**MB**



**MIKRON TYPE 8 POWER 20MM**  
Modern chrome and black finish



Collapsible opera glass

**POCKET SIZE**

**HOW TO SELECT VESPER BINOCULARS FOR YOUR PARTICULAR PURPOSES**

KEY: (EX) Excellent (VG) Very Good (G) Good (F) Fair (NR) Not Recommended

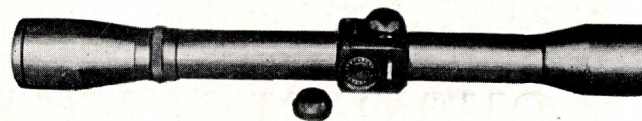
LEADING USES	Small Type	7×25	6×30	7×35	Wide Angle 7×35	7×50	8×30	8×40	9×35	10×50	12×50	20×60
GENERAL USE	G	VG	VG	EX	EX	G	VG	VG	G	G	F	NR
VACATIONING	G	VG	VG	EX	EX	F	EX	VG	G	G	G	NR
RACES-SPORTS	G	EX	VG	VG	EX	VG	G	G	G	G	F	NR
DISTANT VIEW	F	F	F	G	G	G	VG	VG	EX	EX	EX	EX
NATURE STUDY	G	VG	EX	EX	EX	G	G	VG	F	F	F	NR
HUNTING	WOODED AREA	NR	VG	EX	EX	EX	F	EX	G	G	NR	NR
	SEMI-WOODED	F	G	VG	EX	EX	VG	VG	G	G	G	NR
	OPEN FLATS	G	G	G	VG	EX	F	EX	VG	EX	EX	G
	WILD FOWL	G	VG	VG	EX	EX	VG	G	G	F	F	NR
MARINE	NR	F	F	VG	EX	EX	F	G	NR	G	NR	NR
NIGHT USE	NR	F	G	G	G	EX	NR	G	NR	G	NR	NR
INDOOR USE	EX	EX	EX	EX	EX	F	F	F	NR	NR	NR	NR

**RIFLESCOPES**



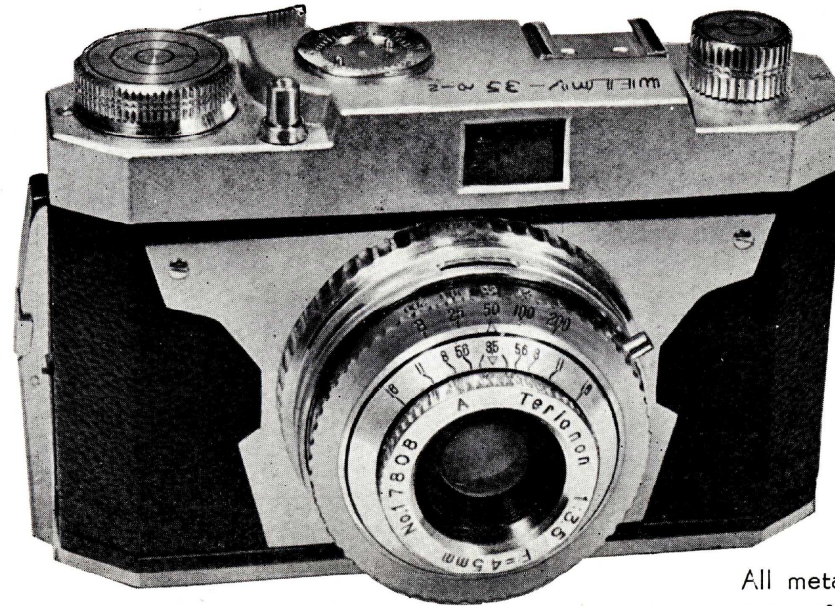
**4 POWER 6 POWER**

Rifle scope with elevation and side screw.



**MB**

In all 35 mm cameras produced in Japan, excepted the Nikon generally classified as Leica-type cameras. In contrast with this trend, the Royal camera has features resembling the Contax-type cameras and elegant exterior features. It is sturdy-built, and is equipped with a high-powered Tominor 1:2.8 five-element lens. The superiority features of the Royal camera are eleven elements.



1. It is mounted with a fast and sharp Tominor 1:2.8 five-element lens.
2. It is equipped with a highly accurate and reliable Copal Shutter (built-in self-timer).
3. The design of the shutter balances with the extremely pleasing exterior features of the camera.
4. Lever film-transport automatically sets the shutter.
5. Double-exposure prevention; shutter will not work unless the camera is loaded.
6. It is equipped with a device which tells whether the film has been wound or not.
7. The viewfinder provides a 100% life-size, bright image.
8. Accurate, reliable single eye-piece rangefinder with effective base length of 66 mm couples with the camera lens.
9. The rangefinder synchronizes accurately for photographing of subjects at a range of up to 2 feet from the film plane.
10. It is capable of utilizing both 37 mm and 32 mm filters and lens hood.
11. It is equipped with Copal Shutter (built-in self-timer) with speeds.

All metal, with lightweight die-cast body. Scientifically balanced for easy viewing and picture-taking.

Rapid film advance lever.

Automatic shutter cocking.

Double-sprockets for uniform film movement.

All settings visible from the top.

All parts precision machined.

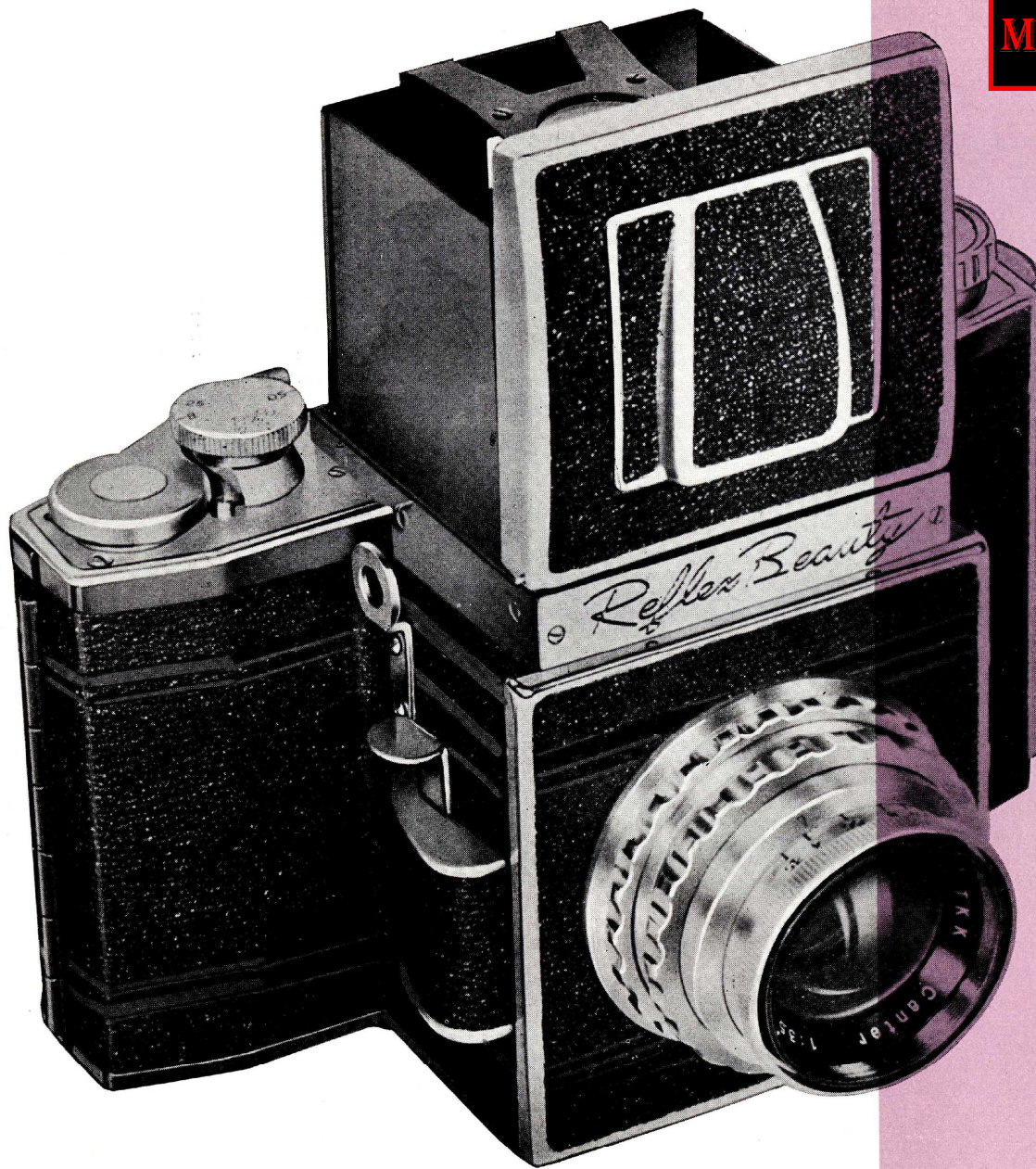
Convenient Red Marker exposure system

An excellent 35 mm camera at cheapest price.

**THAT CAN FULLY GUARANTEE THE ONLY 35MM CAMERA**



**MB**

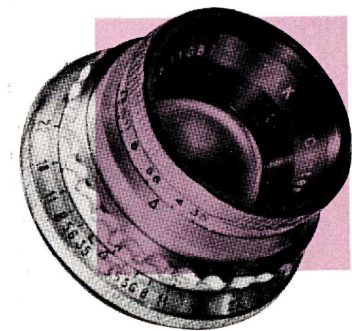


### **Excellent Features of Reflex Beauty**

This is the 1st superior point that is being done by only the newest single lens reflex camera "Reflex Beauty". Parallax troubles are inevitable not only in direct vision finder cameras but also in twin lens reflex cameras, and even if it is equipped with adaptor of these correction, the fundamental difference of lens position gives photographers certain difficulties in the delicate gleam and the camera angle.

In case of single lens reflex cameras, the light which comes through the taking lens is exactly as same as the image of the focusing hood and the camera shows the exact image which will be exposed on the film. Correct focusing, composition, depth of the field against the lens opening and the tone of the gloomy part, all of these can be seen on the ground glass.

The attraction of the interchangeable lenses is one of the expectations which is wanted by amateur camera fans as well as professional photographers. Changing lens is done by only screwing into the lens mount to the camera body and adjust the focusing by simple helicoid system. It is the 2nd. superior point that we can see the effect of the interchangeable lenses without using special finder.



MB



The BEAUTYFLEX Model D is a companion to the full line of superior twin-lens-reflex cameras manufactured with many years' experience in designing and manufacturing this type of precision cameras.

It makes 12  $2\frac{1}{4}'' \times 2\frac{1}{4}''$  exposures on No. 120 or "Browine" size roll film, either black/white or in color.

Both Taking Lens Biokor and Viewing Lens Tril-Lauser are f/3.5, 80mm focal length, 3-element, hard coated and color corrected.

The "Rectus-MX" Shutter has 5 blades and 9 speeds: B, and 1, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100, & 1/300 second.

The Selftimer is built-in.

The Shutter is cocked manually.

Shutter release is built into the body and is fitted cable release socket.

Flash synchronization is Class M.F.X. with M.F.X. Adjusting Lever.

Flash synchro-terminal is European dual cord type.

Other features provided for are: Semi-automatic film transportation, Bayonet mount for lens accessory as "Rolleicord", Film type indicator, Depth-of-field scale, Focusing magnifying glass and Accessory shoe.

**Remarks:** On old pronter type shutter, if you wish to use the M contact, the selftimer will not be used. Because the selftimer has been used in place of M set lever. But in our Model D, the selftimer will be used by setting the M set lever which is a special device.

The Shutter has 5 blades and 6 speeds: B, and 1/10, 1/25, 1/50, 1/100, & 1/200 second.

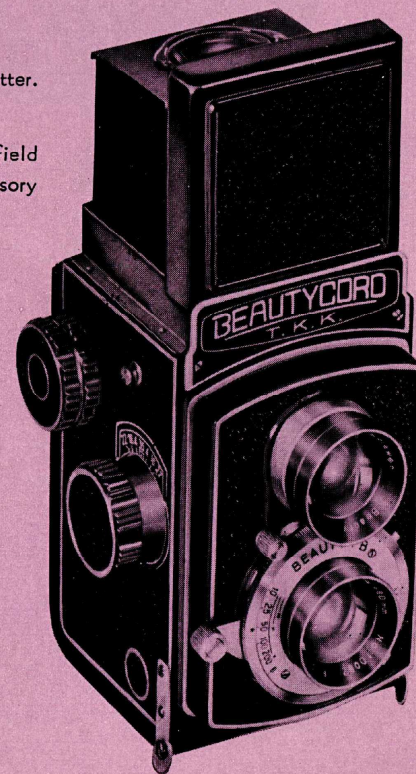
The Self-timer is built-in.

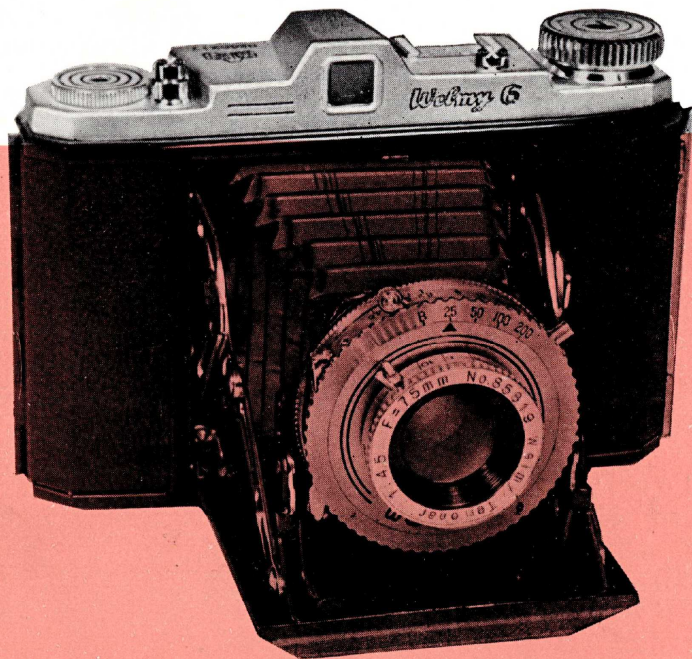
The Shutter is cocked manually.

A Cable Release Socket is provided on the shutter.

Flash synchronization is Class F.

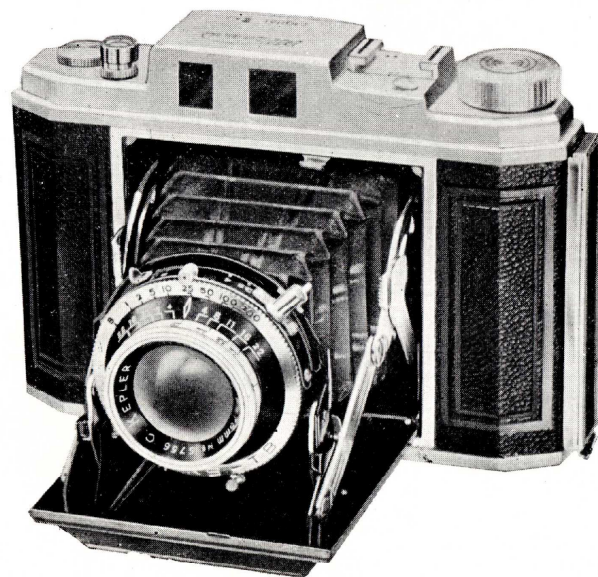
Other features provided for are: Depth-of-field scale, Focusing magnifying glass and Accessory shoe.





MB

Lens: Hard coated 3 elements f:4.5  
75mm "Welmy Terionar".  
Shutter: "Welmy" 1/25, 1/50, 1/100,  
1/200 & B, with built-in flash syn-  
chronizer (Kodak type).  
Picture: 12 pictures of 6 × 6cm 2 1/4  
× 2 1/4") on a roll of 120 film.

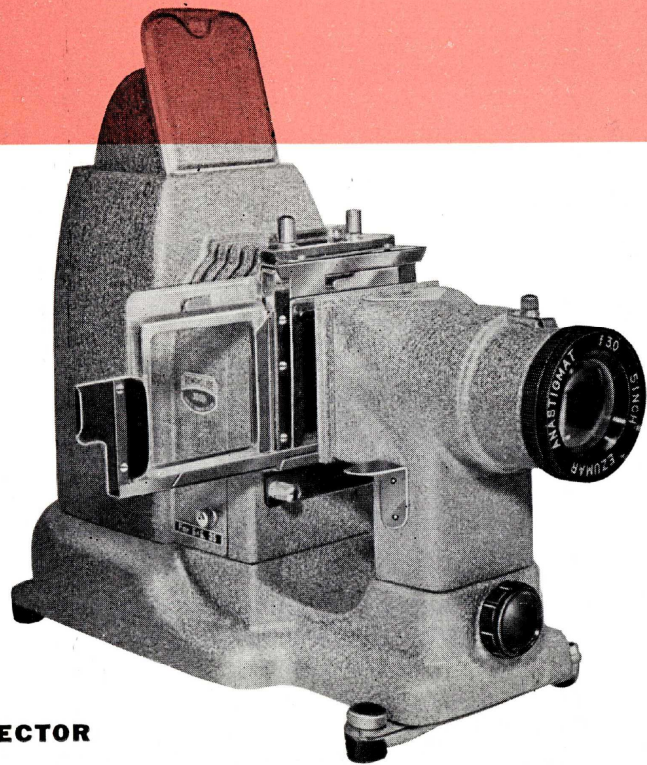


For 35 mm Cameras 8 mm & 16 mm  
Movie Cameras.  
Enlarger Lens, Projector Lens.  
Auxiliary Telephoto Lens.  
Auxiliary Wideangle Lens  
Stereo Device.

Lens Kepler 1:3.5 75mm.  
Shutter: N.K.S. B, 1-1/300 sec. with  
selftimer and flash synchronizer Takes  
either 16 or 12 pictures of 6 × 6 or  
6 × 4.5 cm.



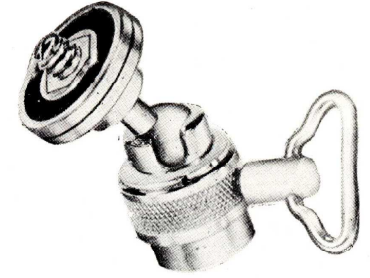
# PHOTOGRAPHIC MERCHANDISES



**PROJECTOR**



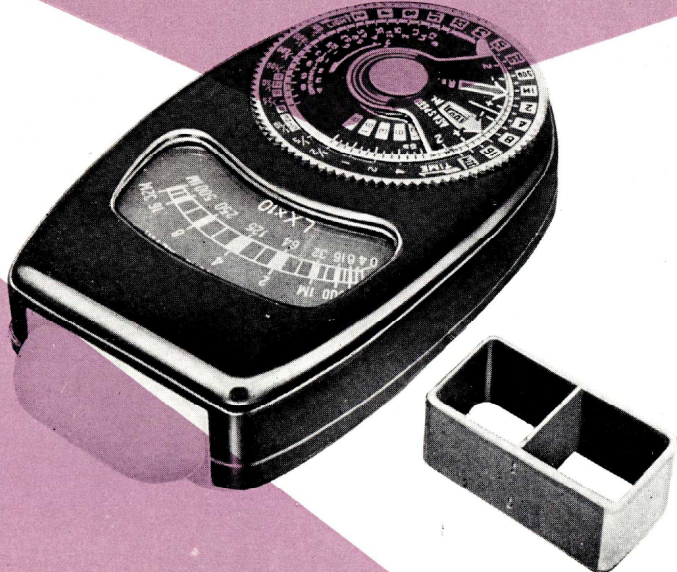
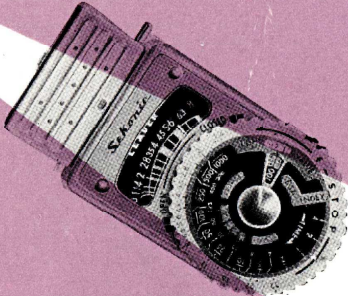
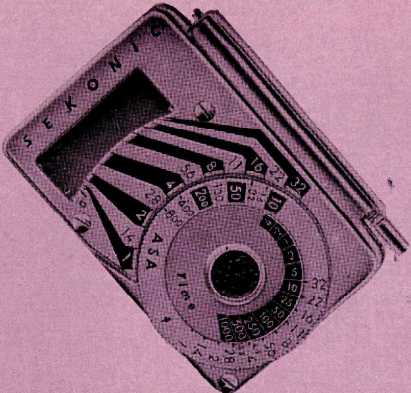
**POCKET FLASH GUN**



**TRIPOD HEAD**

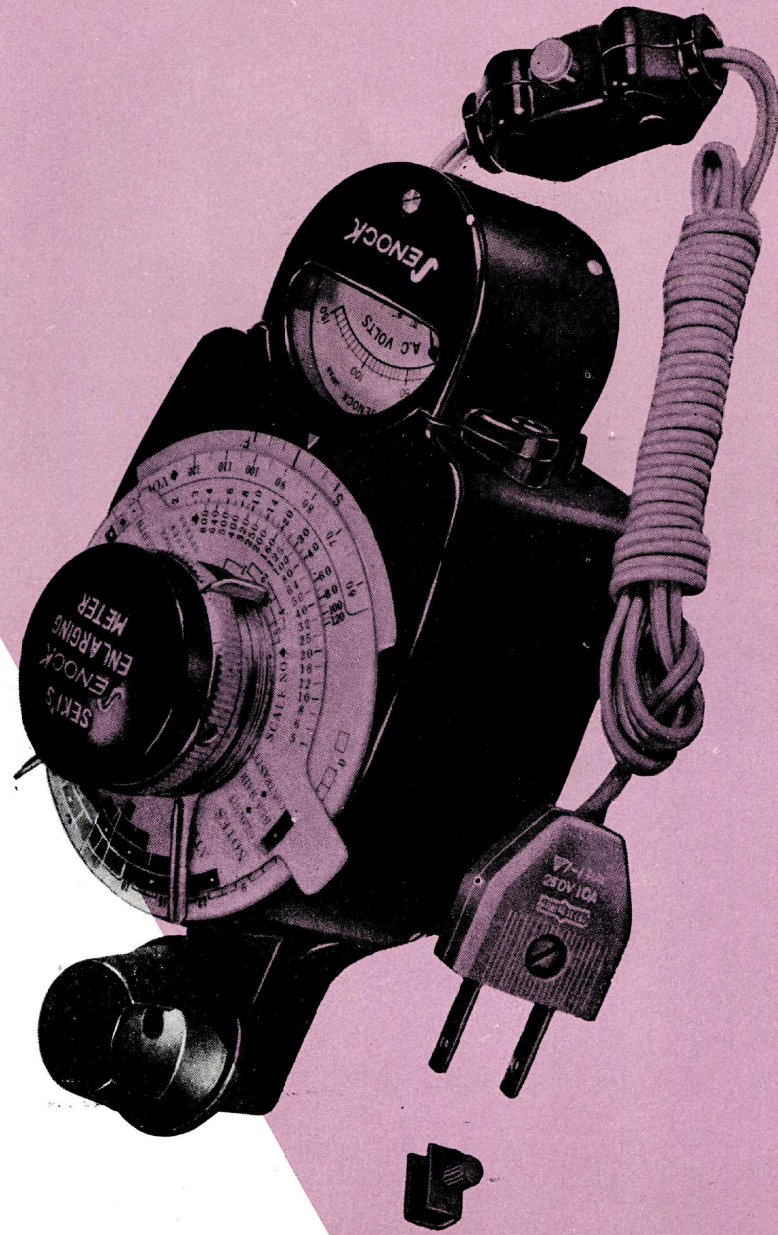


**METAL TRIPOD**

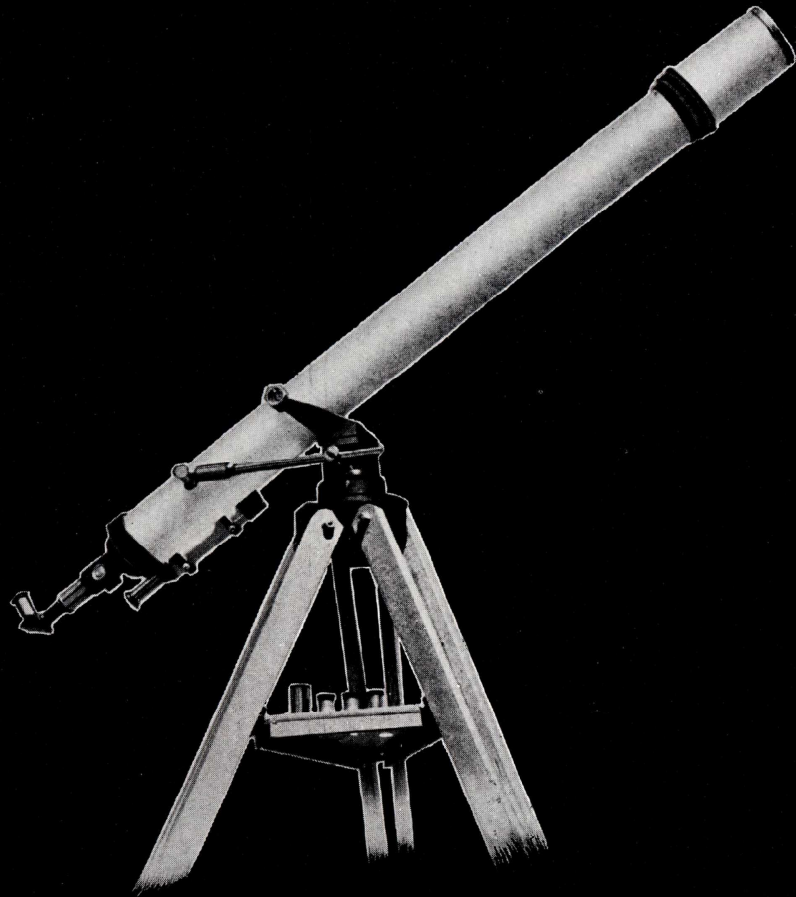


**EXPOSURE METERS**

# ENLARGING METER



# TELESCOPES



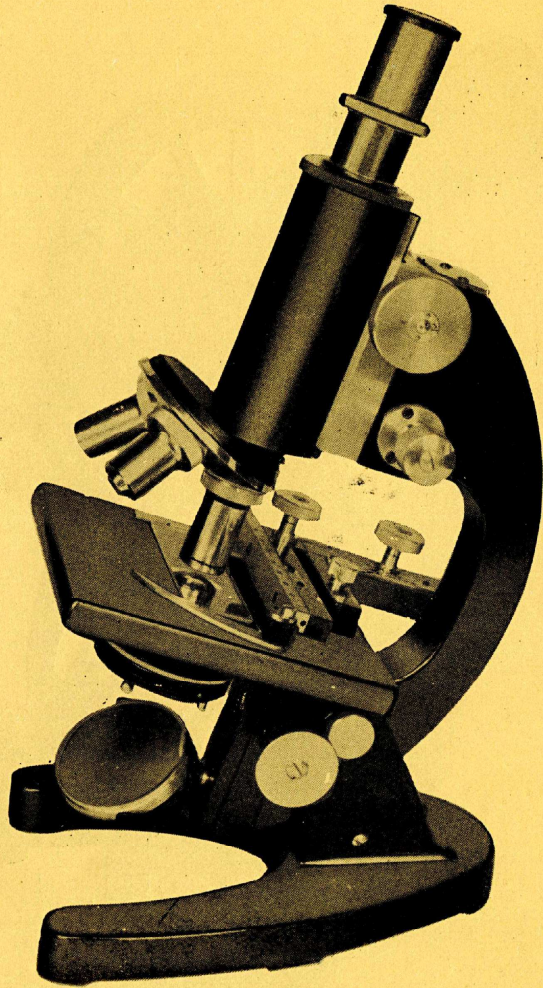
**4-INCH ALTAZIMUTH**



**4-INCH EQUATORIAL**

FREE CATALOG AVAILABLE

# MICROSCOPES



**LABORATORY MICROSCOPE**

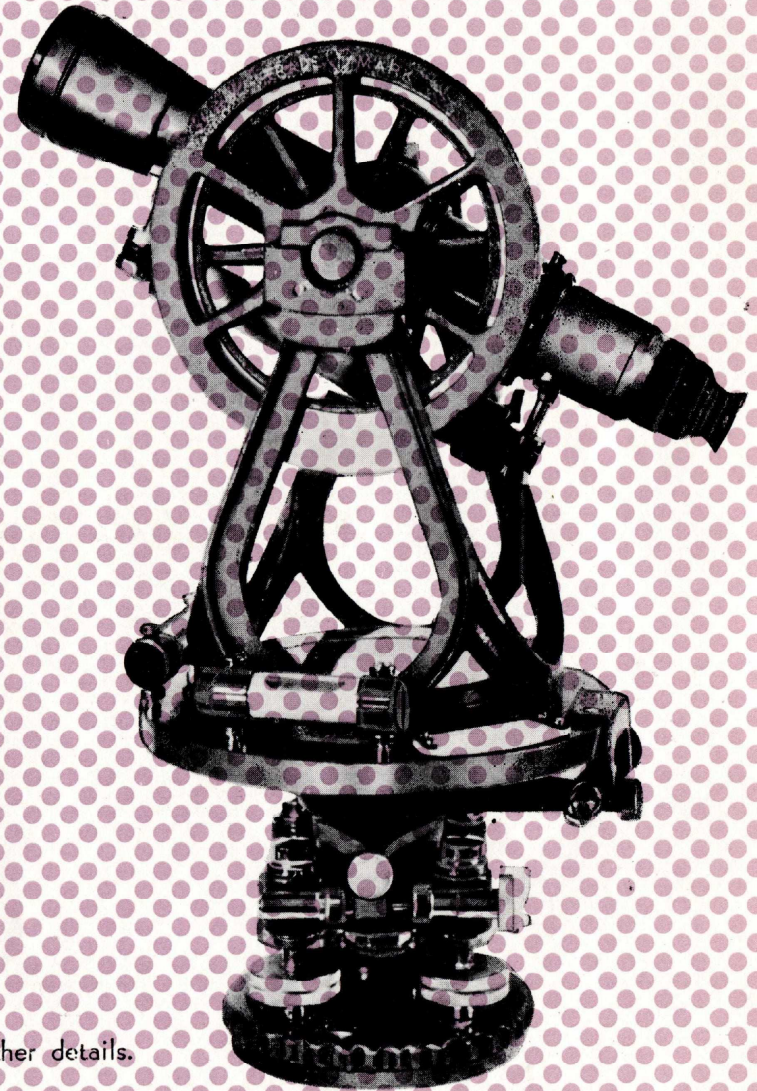
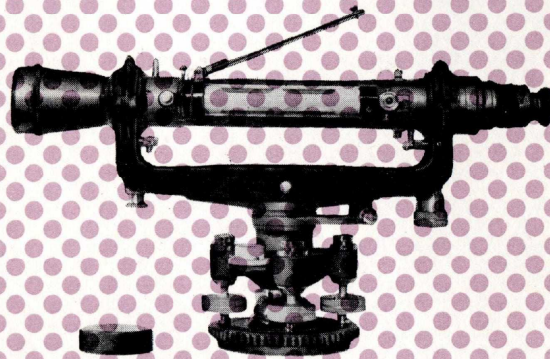
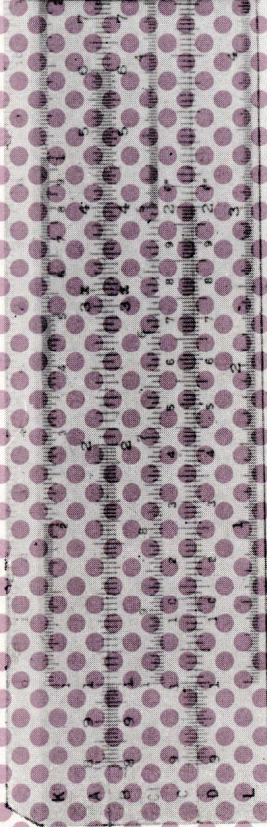


**BINOCULAR MICROSCOPE**



# SURVEYING INSTRUMENTS

MB



**Surveying Instruments and Slide Rules**

Ask for our latest illustrated catalogues showing full further details.

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the symbol all optical instruments and is  
registered in Japan patent office.**

