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# Betriebsanleitung KODAK Retina I Typ 148 (engl.)





## DETAILS OF

Kodak Retina I Camera with Double-Exposure Prevention

### FILM

NEGATIVE SIZE—24 x 36mm FILM SIZE—Kodak No. 135; 20 or 36 exposures

### LENS

X ENAR—Coated 50mm f/3.5 lens LENS OPENINGS—f/3.5, f/4.5, f/5.6, f/8, f/11, f/16

### SHUTTER

COMPUR-RAPID—Cocking type SPEEDS—1, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100, 1/250, 1/500 second and "B" RELEASE—Body and shutter

### FOCUSING AND VIEWING

FOCUSING SCALE—on focusing ring around shutter

FOCUSING RANGE—3½ feet to infinity VIEW FINDER—eye-level type

Make a note of the serial number of your camera. The serial number will be found inside the back of the camera, just above the pressure pad. The prefix "EK" is used to designate those Retina Cameras imported and sold by Eastman Kodak Company.



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### **YOUR Picture Chronicle**

T. M. REG. U. S. PAT. OFF.

. those pictures you will make of your friends and memorable occasions: partriends and memorable occasions: par-ties, picnics, Baby's first toddling steps, those "salon" attempts . . . all these can be good pictures even from the beginning if, before loading your Kodak Retina I Camera with film, you acquaint yourself with the fundamentals of camera opera-tion and nead the behavior tion and read the helpful suggestions con-tained in this manual for making good pictures.

G KNOB The Key to GOOD PICTURES these 3 Settings A Shutter Speed The shutter speed controls the length of time that the shutter stays open to admit ER light to the film. 5 ED DOT B Lens Opening The lens opening controls the amount of light that passes through the lens while the shutter is open. KNOB C Focus The exposure button, shutter, and film winding The exposure button, shutter, and film winding mechanism are coupled together to prevent double exposures and blanks. The exposure button is automatically locked until the film is advanced and the shutter cocked. The exposure button is inoperative if the camera is not loaded with film. Double exposures for special effects can be made with the release on the shutter. When the lens is properly focused for the distance between the camera and the subject, the light that reaches the film forms a sharp image of the subject. The finited appearance of the lans is due to a special coating which increases light frammission and decreases interval reflec-tions; thus impriving the brilliance of black-and-white pictures and the color purity of full-color pictures. 4



#### TO OPEN THE CAMERA

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Press the OPENING BUTTON to open the front of the camera; then draw down the bed carefully until it locks. This will bring the lens and shutter into position.

Note: Before closing the camera, be sure to read the instructions on page 10.



#### SHUTTER SPEED A

The Compur-Rapid Shutter on your camera is designed for making exposures of 1, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100, 1/250and 1/500 second. For average subjects, revolve the knurled collar of the shutter until 1/100 second is at the black dot. In the illustration the shutter is set for 1/100 second. For time exposures the letter "B" must be brought to the black dot.

After the proper speed is selected, it is necessary to cock the shutter by pushing the lever (arrow above) to the opposite end of the slot. It is not advisable to change the speed of the shutter from 1/250 to 1/500 or vice versa when the shutter is cocked.

Automatic exposures of 1 second, 1/2, 1/5, or 1/10 second should not be made with the camera held in the hands; a tripod or other firm support should be used for exposures slower than 1/25 second. Important: Never oil the shutter.





### THE VIEW FINDER

Hold the camera firmly against the face with the rear of the finder close enough to the eye so the edges of the rear frame appear superimposed on the edges of the front finder frame.

If the subject is 10 feet or less from the camera, compose the picture in the finder; then tilt the camera a trifle to the right when making vertical pictures or a trifle upward when making horizontal pictures.

### TO CLOSE THE CAMERA

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Before closing the camera, first make sure it is focused for infinity; then press the two closing buttons (pointed out by arrows in illustration below) and close the bed.



### COLOR PICTURES from Kodachrome Transparencies

With your Kodak Retina I Camera, you can get superb quality color pictures by using Kodachrome Film.

Kodachrome full-color transparencies can be projected for viewing on a screen, or Kodachrome Prints can be made from them. Kodachrome Prints are full-color enlargements available in 4 sizes from your Kodak dealer.

For color film transparencies, use Kodachrome Film K135 for daylight and K135A for photoflood light. Kodachrome Film must be processed (cost included in price of film) at an Eastman Kodak Laboratory. K135 or K135A; 20 or 36 exposures.

#### BLACK-AND-WHITE PICTURES

Films differ mostly in the amount of light they require to record a picture well and in their ability to produce a particular effect. The descriptions of the Kodak panthromatic films on the next page will help you to select the appropriate film to satisfy your particular requirements. All have a wide exposure latitude.

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### KODAK FILMS

### PLUS-X PANCHROMATIC FILM

The combined high speed and fine grain of Kodak Plus-X Panchromatic Film make it the ideal film for general outdoor work. PX135; 20 and 36 exposures.

#### SUPER-XX PANCHROMATIC FILM

Because of its very high speed, this film is the logical choice for making snapshots indoors with photoflood lamps. Indoors or out, it is the film to use when the light is poor. XX135; 20 and 36 exposures.

### PANATOMIC-X FILM

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Because of its ultra-fine grain, this film is recommended when big enlargements are to be made or extreme detail is desired. Its speed is half that of Kodak Plus-X Film, FX135; 20 and 36 exposures.



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WHAT EXPOSURE?	DAYLIGHT	KODA	CHROME E	XPOSURE	TABLE
groups, to which	be classified in three standard definite exposures can be		LIGHT	ING CONDIT	IONS
Daylight Type und For further exposu 21 of this manual,	le is for Kodachrome Film er typical lighting conditions. re information, consult page the Snapshot Kodaguide, or et packed with the film.		Clear Sun Subject in direct sunlight	Hazy Sun Soft shadows cast	Cloudy but bright
DARK	Masses of dark green shrubs or people stand- ing near shrubbery	Lens Opening	<b>il* ●</b> f 5.6	i 5.6	f 4.5
UBJECTS	which does not reflect light into the shadows con be clossed as "Dark Subjects."	Shutter Speed	1/50	1/25	1/25
VERAGE	Most pictures fall into this group — near-by peaple, brightly colored	Lens Opening	Between H5.6 and H8	( 4.5	f 3.5
Basic kposure	gordens, houses, pets, etc. In general, use this classification if in doubt.	Shutter Speed	1/50	1/50	1]50
	Beach, marine, and snow scenes, where everything is light-col-	Lens Opening	1/8	H5.6	f 4.5
UBJECTS	ored and the surround- ings reflect light onto the subject to give a brilliant, flat lighting.	Shutter Speed	1/50	1/50	1/50



Deep shade in the daytime, interiors, street scenes at night, and many other subjects offer opportunities for excellent pictures through use of a time exposure.

To make a time exposure, place the camera on a tripod<sup>\*</sup> or other firm support. For short time exposures set the shutter at "B"; cock the shutter; then press the exposure button. The shutter remains open as long as the exposure button is depressed. For longer exposures obtain the accessory Kodak T.B.I. Cable Release No. 2 and follow the instructions packed with it.

\*The use of the accessory Kodak Tilt-a-Pod is recommended if vertical pictures are desired with the tripod. The tripod socket is located in the side of the camera case.

# REFERENCE TABLES

Type of Subject	Bright Sun	Hazy Sum	Cloudy- Bright	Cloudy- Dull
Brilliont Subjects	1/16-1/100	f/11 - 1/100 ft	8 -1/100	f/5.6—1/100
Bright Subjects	f/11 —1/100	f/8 -1/100 f/	/5.6-1/100	f/4.5—1/100
Average Subjects	€/B −1/100	f/5.6-1/100 F.	/4.5-1/100	4/3.5—1/10D
adolee13				
Shaded Subjects	f/5.6—1/100	f/4.5—1/100 f.	/3.5—1/100	f/3.5—1/50
Shaded Subjects Phot wo No. 2 Expose	Photoflood Expo	osure Table nps in Kodak Va	For Super-	XX Film
Shaded Subjects Phot wo No. 2	Photoflood Experience	osure Table nps in Kodak Va Lamp-to-Su	For Super- tri-Beam Light	XX Film
Shaded Subjects Phot wo No. 2 Expose Time i	PhotoRead Lar	osure Table nps in Kodak Va Lamp-to-Su (/5.6	For Super- tri-Beam Light Ibject Distance	•XX Film s set of "STILL" •
Shaded Subjects Phot wo No. 2 Exposu Time i Second	PhotoRead Lar	osure Table nps in Kodak Va Lamp-to-Su (/5,6 8 ft	For Super- iri-Beam Light ibject Distance f/8	XX Film s set of "STILL" s

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#### DEPTH OF FIELD

Depth of field is the distance from the nearest to the farthest objects that will appear sharp in the negative or print. It depends upon the distance between subject and lens, the focal length of the lens, and the size of the lens opening used. The smaller the lens opening the greater the range of sharpness; the larger the lens opening the less the range of sharpness.

### DEPTH-OF-FIELD INDICATOR

Figure 1

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The Depth-of-Field Indicator, engraved on the disk next to the opening button, is a help in obtaining correctly focused pictures. It shows the depth of field obtained with the various lens openings. After adjusting the focus of the lens for

a certain number of feet, turn the outer

ring of the indicator until the number for which the lens is focused is at the pointer.

Example 1: To find the depth when the lens is focused for five feet, turn the outer ring of the indicator until 5 is at the pointer; we now can read the range of sharpness which will be obtained with the various lens openings. With f/11 everything from about 4 feet to almost 7 feet will be sharp.

Example 2: When the lens is focused for ten feet, turn the outer ring of the indicator until 10 is at the pointer; we then find that with //5.6, objects as near as 8 feet and as distant as about 13 feet will be sharp; with



Figure 2

f/16 everything from a little less than 6 feet to about 50 feet will be sharp.

When the subject is  $3\frac{1}{2}$  feet from the camera, the depth-of-field indicator shows the range of sharpness beyond  $3\frac{1}{2}$  feet only, with the various lens openings.

With the camera focused at  $3\frac{1}{2}$  feet, the range of sharpness when using f/3.5 is 3 feet 4 inches to 3 feet 9 inches; with f/5.6, the depth is 3 feet 2 inches to 3 feet 10 inches; and at f/11, the range is 3 feet to 4 feet 4 inches.



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### KODASLIDE TABLE VIEWER MODEL A

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This new viewer provides complete onepackage projection for your 35mm or Bantam transparencies. Your slides are enlarged nearly 5 times and brilliantly illuminated by the Lumenized optics without fuss or bother in a normally lighted room. The Kodak Projection Ektanon 50mm f/3.5 Lens projects the image through the Kodak Ektalight Field Lens to the Kodak Day-View Screen. A new, unique changer handles about 75 Ready-Mounts or 30 double-glass slides. Ready-Mounts and glass slides may be intermixed. It is easily transported and only needs plugging into a 100- to 125-volt a-c or d-c line to be instantly ready for use.

#### KODASLIDE PROJECTORS

Both the Kodaslide Projector Models 1A and 2A are ideal for projecting Kodachrome transparencies and black-andwhite positives. The Kodaslide Projector Model 1A is an inexpensive projector fitted with a 4-inch f/3.5 Lumenized Kodaslide Projector Model 2A features a turret head and a choice of two outstanding Lumenized lenses: A Kodak Projection Ektanon 5 inch f/3.5 or a Kodak Projection Ektanon 7½ inch f/4.



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### KODAK EYE-LEVEL TRIPOD

This sturdy aluminum tripod provides rigid, dependable support for your camera. It measures 22½ inches folded and 60 inches extended. The use of the Kodak Turn-Tilt Tripod Head (illustrated) is recommended if both vertical and horizontal pictures are desired. The tripod screw fits directly into the tripod socket in the side of your camera.

### LEATHER FIELD CASE

12-48-CH-83

A smart leather carrying case, with hand and neck strap, protects the camera and permits it to be ready at a moment's notice.

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### KODAK COMBINATION LENS ATTACHMENTS

The Series V Lens Attachments are used with the Kodak Retina I Camera. The basis of the combination is the No. 21 Kodak Adapter Ring which screws into the front of the lens mount. All Kodak Wratten Filters, supplementary lenses, Pola-Screen, and Lens Hood are available in this series.

A color filter adds greatly to the pictorial effects of black-and-white pictures by darkening the sky and recording the clouds. Three Kodak Wratten Filters can be used for this purpose, the K2, G, or A, resulting in medium, strong, and extra strong effects respectively.

# EASTMAN KODAK COMPANY Rochester 4, N. Y.

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