



with Large-size View- and Rangefinder



You have made a wise choice: in your new RETINA II C you have a miniature camera of the highest precision which has undergone the strictest tests. It thus satisfies all requirements for first-class results.

Your ERINA II C is definitely a quick action conors with a very fast 6-element Y2A lens of 2 joints (50 ma) foot length interhompeable lens units for relepholo and wide-angle shots; a Synchro-Compur shutter with light value scale and speeds to /vs second, and a novel large-size view- and rangefinder with reflected image frames for different focal lengths. In addition, the RETINA II C features many other technical reflements which we shall go into in more detail on the following pages.

Like all RETINA models, the RETINA II C is easy to use. We would, however, advise you to make a point of studying this instruction booklet carefully. First practise the most important operations without a film in the camera; you will then already be an intimate terms with your RETINA II C by the time you come to take your first pictures.



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Open the camera by pushing the small button (1) on the base-board (2) in the direction of the word 'Kodek'. At the same time pull open the baseboard until if You can only close the camera when the focusing scale (9)* is set to infinity. Simultaneously the sides of the lens panel with two fingers of one hand, and fold up the baseboard. Practise these open country is the sides of the lens panel with two fingers of one hand, and fold up the baseboard. Practise these open country the EEINA.

* The numbers not shown on individual pages are indicated on the general view of the comera features on pages 42—45 (wefold page).



Holding and Viewing





Now hold your RETINA with both hands and try different ways of gripping it until you have found a camera hold that suits you best. Our illustrations for horizontal and vertical shots are intended just as suggestions. After a few attempts you will soon have a really sure arip on it.

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Look through the finder eyepiece (32); the new large-size view- and rangefinder shows you the subject in almost natural size. You will be agreably surprised by the brilliant flader impact

The three reflected line frames indicate the appropriate field of view with the standard, telephoto, and wide-angle lenses respectively, and prevent faulty viewing.

Please note:
The middle line frame applies to the standard 2 inch (50 mm.) lens:

the inner line frame applies to the 3% inch (80 mm.) telephoto lens; the outer line frame applies to the 1% inch (35 mm.) wide angle lens.

For further details of the image frames for telephoto and wide angle shots see page 27, for setting the distance see pages 22 and 28.

At subject distances closer than 8 feet please note the remarks on page 36 about the parallax correction marks on each image frame.







Winding and Releasing



To tension the shutter, pull out the rapid winding lever (34) in one movement as for as it will go (see illustration). Then let it shoot back to its original position. If it should not fly back, it was not moved for enough. So pull out the rapid winding lever fully every time.

This single movement tensions the shutter, and advances the film (if there is one in the camera) and the film counter (see page 14).

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When you have your subject nicely framed in the viewfinder, press the release button (11) through. The particularly smooth action of the release of your RETINA effectively guards

agginst camera shake

You can only press the release button once you have tensioned the shutter. So make a habit of operating the rapid winding lever immediately after every exposure. Your RETINA is then always ready for action. Keeping the shutter tensioned — even for some time — does not harm if in any way.



THE TECHNIQUE OF PICTURE TAKING Inserting the Film



Your first shots will soon show the advantage of having practised the basic operations without a film in the camera. You have already got the feel of your RETINA, and can devote more attention to the subject itself. So let us start



Fully pull out the rewind knob (19) to its second stop.

Turn the built-in take-up spool (38) by its serrated flange, until one of the slits in the spool core points upwards. Push the trimmed end of the film into this slit, so as to anchor a perforation hole in the little hook of the slit (see bottom illustration opposite).

Now draw the film across the film trade, and insert the cassette into the cassette chamber. Push back the rewind knob [19], turning it at the same time in the direction of the arrow until you feel a slight resistance, thus tensioning the film. The teeth of the transport sprocked [37] must properly engage both row of perforations of the film. Then close the camera of the film. Then close the camera



Setting the Film Counter



Press the film release button [13] and at the same time push the film counter setting button [35] in the direction of the acrow. Repeat this until the diamond-shaped ₱ mark between No.1 and No.3 do ft the film counter [12] is opposite the notth in the upper edge of the film counter window. With a counter window. With a counter window. With the film counter to the diamond 22.000 page consette set the film counter to the diamond

New press the film release button (13) again, and operate the rapid winding lever (34). Repeat this until No. 36 (or 20) appears apposite the notion in the film counter window. At the same time, the rewind knob (19) must rotate against the direction of the arrow. That shows that the film is advancing properly. If it does not rotate, tension the film again as described on page 13.

The film counter always indicates the number of shots still available. When you release the shutter after the counter has reached No. I, an automatic transport lock comes into operation. See the remarks on the film release on page 3A guard on the film release button prevents accidental releasing.

Setting the Film Indicator

The film indicator is a useful reminder of the type of film you have loaded into your RETINA.

ring in the direction of the arrow until the black dot points to the type of the film loaded in the camera. The position of the film indicator does not affect the taking of the picture in

The following symbols stand for

Color C = Black-and-white film

Color C = Artificial light colour



Setting the Shutter

The Light Value Setting

For the exposure, set the light value scale (26) of the comers to the same number or you obtained by an exposure meter receiling, or from the light value toble on pages 26-21. Fall the light value setting lever (25) outwords value figure. If that should not be possible straighthour because the lever reaches the limit of its movement, rotes the shutter speed ring (6) until value, for example 131, value you want. To can onlice it intermediate value for example 131, value you want. To can onlice its intermediate value.

Light Values and the Aperture-Speed Coupling

By setting the light value on the light value scale you have automatically coupled all the aperture-speed combinations you can select for correct exposure.

The shutter speeds are marked on the shutter speed scale (5). The figures indicate fractions of a second, for instance 2 stands for $\frac{1}{2}$ second, $\frac{125}{2}$ for

26

Vizs second, and so on. The B setting is used for time exposures of over 1 second When set to B, the shutter remains open as long as you keep the release button

The apertures (f/numbers) are found on the operture scale (4): the figures are rela stance you have set a light value of 12 and you rotate the shutter speed ring you can read off the following aperturespeed combinations in turn opposite the index mark (3)

depressed.

16 11 8 5.6 4 2.8 Aperture[f/ In seconds 1/2 1/15 1/20 1/40 1/174 1/100 1/400





Remember: the higher the aperture number, the smaller the lens opening. The choice of the lens aperture is closely connected with the depth of field required (see page 23).

The choice of the most suitable aperture-speed combination will depend on the subject. Fast moving subjects call for short exposure times to avoid movement blur. For example if you want to take a sports short of \$\frac{1}{2}\text{ms}\$ coond, turn the shatter speed setting ring until the index mark (3) is opposite 500. The aperture automatically adjusts itself to \$12.8.

On the other hand, if you require great depth of field, for instance in an architectural view, set an appropriate high aperture number (small aperture), e.g. f/22. The shutter speed will again reset itself to 1s second.

In all cases the light value, and thus the amount of light reaching the film, remains absolutely constant. The shutter speed ring engages at each setting, thus ensuring exact exposure times.

Independent Settings

For subject conditions where an exposure meter shows no reaction and our light value table is no help—for example, night shots, or flash pictures—you have to set the exposure without reference to light values. In that case set the shutter speed first, and then the operture. If you do it the other way round, the aperture-speed coupling would alter the aperture when setting the shutter speed.

Therefore first rotate the shutter speed setting ring (6) until the required speed is opposite the index mork (3). Then pull the light value setting leaver outwards as olready described, and move it sideways until the operture to be set is also apposite the index mork (3). Even when you have set the expourse in this way, you can use the operture-speed coupling to adjust the shutter speed and operture together at will by turning the shutter speed setting rine.

If the shutter speed setting ring reaches the limit of its movement during adjustment, this indicates that the lighting conditions are not suitable for the aperture or speed you intended to use.

Table of Light Values

light value from this table.

If you have no photo-electric exposure meter, such as for instance the Kodalux L (see page 41), you can find the correct

The light value table is valid for the months from May to August between 10 a.m. and 4 p.m. Reduce the light value obtained by 1 during March, April. September, and October, as well as between 9 and 11 a.m. and between 4 and 6 p.m. Reduce the light value by 2 during the winter months of November to February.

For setting the aperture and shutter speed separately without reference to the light value, see page 19.

Subject Characteristics

If you are not certain about the subject brightness, regard it as an average subject.



ally light toned subjects Average subjects. People in the



enen - buildings and gardens (not in the shade); subjects with lia and dark tones in equal pro-Dork subjects. People in dark ne flowers animals and



Subjects in the shade, but largely iect, the lower the light value



THE !	Light values* with									
Film Speed ASA	Brilliant Sun Clear sky, strong shadows		Hozy Sun Indistinct shodows		Cloudy Bright No sun, no shadows		Cloudy Dull No sun, dark sky			
10	12	12	11	11	10	10	9	9		
25	13	13	12	12	11	11	10	10		
50	14	The second	13		12		11	AND DUTCH		
100	15	TO A STATE OF THE PARTY OF THE	14	160000	13	100000000000000000000000000000000000000	12			
10	11	111/2	10	10%	9	91/2	8	81/2		
25	12	1235	11	1136	. 10	101/2	9	91/2		
50	13	Telephone Inches	12	100000000000000000000000000000000000000	- 11		10			
100	14		13		12	0.00	11			
10	10	11	9	10	8	9	7	8		
25	11	12	10	11	9	10	8	9		
50	12	10000	11	68880	10		9			
100	13		12		- 11		10	STATE OF THE PARTY		
10	8-51/2	8-81/2	7-41/2	7.7%	6-31/2	6-61/6	5-2%	5-51/6		
25	9-61/2	9.91/2	8-51/4	8-814	7-41/2	7-71/2	6-31/5	6-61/5		
50	10-71/2	A CONTRACT	9-61/2	31	8-51/5		7-41/2	Eldina in		
100	11-81/2		10-71/2		9-61/2	NAME OF TAXABLE	8-51/2			

* The values apply to front lighting.

For side lighting reduce the light value setting by ½, for shots against the light by 1.

Setting the Distance





When you look through the eyepiece [37] of the large-size view- and rangefinder, you will see a round rangefinder field appearing specially bright in the centre of the finder image. As long as the distance is not accurately set, part of the image oppears with double collines inside the rangefinder field. Therefore move the range of the result of the

The Depth of Field Scale

The lens reproduces sharply not only that part of the subject on which it is actually focused, but also a certain zone in front and behind. This zone is known as the

You can instantly read off the depth of field for any aperture and distance on the depth of field scale (8) arranged symmetrically around the focusing index (7). For instance, if you have set the distance to 8 feet (see illustration on the right you read off the depth of field at f/11 from the two corresponding index lines (4) feet on the left, and other (3) feet on the right. This then bellet was the set of the se

with the distance set to the first set of fill, you have a depth of field zone from about 5% to 20 feet. Within this zone everything will be sharp. The depth of field scale also shows you that the zone of shorpness increases the smaller the operture used,



Focusing Zones



Your RETINA II C has two zone focus settings. With these you do not have to set the distance fresh for every shot, provided the subject keeps within the quite appreciable region covered by the depth of field.

a) The Near Focusing Zone
For near subjects set the distance to the small
circle near the 10 feet, and the aperture to f/8.
This yields a depth of field from about 6% to

er. e Far Focusina Zone

For more distant subjects set the scale to the small circle corresponding to 20 feet, and the small circle corresponding to 20 feet, and the same of the state of



The Interchangeable Lenses of the RETINA II C

The interchangeable lens system of the RETINA extends your scope to cover the interesting fields of tele and wide-angle photography. Do not miss this fascinating

opportunify! With the standard RETINA Xenon C lens only the interchangeable RETINA Xenon C units can be used. Similarly, the interchangeable RETINA Heligon C units must only be used with the standard RETINA Heligon C in S. When changing lenses, slob be sure not to change the standard RETINA Heligon C in WETINA II C against that with the standard RETINA Heligon C in WETINA II C against that with the serial number engraved on the bayonel mount of the camera. Methical with the serial number engraved on the bayonel mount of the camera.

You have the choice of the following interchangeable units: For telephoto shots:

The 31/4 inch (80 mm) RETINA Longar Xenon C f/4 or RETINA Heligon C f/4.

For wide-angle photography: The 1% inch (35 mm) RETINA Curtar Xenon C f/4 or RETINA Heligon C f/4, or

The 1% inch (35 mm) RETINA Curtar Xenon C 11/4 or RETINA Heligon C 11/4 or The 11/5 inch (35 mm) RETINA Curtar Xenon C 1/5.6 or RETINA Heligon C 1/5.6.

The most important hints for photography with the interchangeable lenses are

The most important hints for photography with the interchangeable lenses are summed up on the following pages. In addition, detailed instructions are enclosed with every interchangeable lens.

Removing and Inserting the Lens



The front component of the RETINA lens is interchangeable. To remove the standard lens, rotate it anti-clockwise as far as it will go, and lift out of the shutter We recommend the use of the special lens container designed for the standard lens for easy danging and convenient storage.

To insert the alternative lens unit in the comera, place the red dot on the mount of the lens (15) opposite the red dot on the bayonet fitting (16), as in the illustration. Then turn the lens clockwise as far as will go, to engage the bayonet lock. To remove the alternative lens unit again, proceed as described above.

The Large-size View- and Rangefinder

The new large-size view- and rangefinder for a series of focal lengths greatly simplifies photography with the interchange of the series of th

area for telephoto exposures (see top illustration), the outer brilliant frame the view for wide-angle shots (see bottom illustration). You therefore see at the same time which lens is the most suitable one for any given subject.

The marks on the image frames serve for parallax correction with near subjects claser than 8 feet (see page 36).





Setting the Distance

When pholographing with the interchangeable lenses, first measure the subject distance as described on page 22, and read off the figure obtained on the distance scale (9) of the camera apposite the focusing index (7). Then set this figure on the white scale ring of the alternative lens unit (40) apposite the red friangular index.



Now read off the distance figure on the black scale [42] of your alternative lens unit opposite the red triangular index. Set the same figure on the distance scale of the camera opposite the focusing index [7]. The alternative lens is now sharply facused at the measured distance.

on on the left) you are shooting with the wide-angle and with the large-size view- and rangefinder have found the subject distance to be 7 feet. On the white scale ring of the wide-angle lens (40) therefore set the figure 7 opposite the red triangular index mark (41). On the black scale (42) you read off approximately 13 feet opposite the triangular index. Now set this figure opposite the focusing index (7) of the camera.

Setting Interchangeable Lenses without Comparison Scales

If you have an alternative RETINA lens without comparison scale, use the two scales below the lens panel on the camera, on the other side of the distance scale for focusing (see illustration). Move the focusing lever (17) to set the distance for wide-angele shots apposite the b mark (28) on the white scale (27) (black figures on white) and for telephoto shots apposite the T-index mark 0 feet for the far zone, and a about 15 feet for the near zone) are also marked on these two scales. The vellow figures on the black telephoto scale (23) are for exposures with the telephoto lens in conjunction with the T 1/60 close-up lens at distances between 6 and 3½ feet.









Focusing Zones with the Interchangeable Lenses

1. The Wide-angle Lens

The zone focus setting is marked on your wide-angle lens by a black circle on the white scale ring (40). Set this circle opposite the red triangular index (41), you can then read off approximately 20 feet on the black scale ring (42).

With the aperture set to f/11, you then have a depth of field zone from about 5½ feet to infinity (see left-hand illustration on page 31). Finally set the distance scale (9) of your RETINA III C to 20 feet.

2. The Telephoto Lens

Your telephoto lens carries two zone focus settings marked by two black circles on the white scale ring (40):

a) The Near Focusing Zone Set the black circle near the 15 feet mark to the red triangular index (41). The black scale ring (42) of the telephoto lens then indicates a distance about 6 feet. With the aperture set to f/11, this yields a depth of field zone from about 12 to 22 feet. Now set the distance scale (9) of your RETINA to 6 feet.

b) The Far Focusing Zone If you set the black circle near the 50 feet mark to the red triangular index (on the black scale ring (42) of the telephoto lens. With

f/11, you then have a depth of field zone from about 25 feet to and illustration below). Finally set the distance scale (9) of your RETINA II C to 20 feet.



Reading Off the Depth of Field

depth of field at your disposal, read off the distance large-size view- and rangefinder apposite the focusing index (7) this figure on the white scale ring (40) of the of lens apposite the red triangular index (41).

field limits for the various aperture settings on the white scale ring (40) of the

Shots with the Telephoto Lens between 6 and 31/2 Feet The telephoto lens covers subject distances from infinity to

feet. With the T 1/60 close-up lens fitted in front you can so take telephoto shots of subjects between 6 and 3½ feet portraits, to avaid perspective distortion). Set the distance exactly the same way as described on page 28 for the interngeable lenses. In this case however, use the vellow figures on the white scale (40) to obtain the figure to be read off the black scale (42) apposite the red triangular index (41) and set distance scale of the camera





The state of the same

Unloading the Film



To rewind the exposed film, depress the reversing button (36) in the base of the comera, and half pull out the rewind knob (19) to its first stop to get at it more easily.

Turn the rewind knob in the direction of the arrow until the reversing button cases to rollote. This button carries a black dot near its edge for easier observation. You have now revowed the film into its cassette. Open the knob, and remove the cassette from the film chamber. The exposed film is best protected against the light in its original packing, in any case do not lead or wilload a diling in fall guilden or strong critical light, to evenid



Synchronized Flash



The shutter of your RETINATIC is speed-synchronized: you can take flash shots at all shutter speeds up to the fastest setting of 1/en second with any flash bulb or electronic flash unit on the The holder of the flash socket (20) carries three letters er

on it: M. X. and V. M and X are synchronizing settings for while V is the self-timer setting. The flash is fired on pressing to shutter release button of the camera. You must of course first connect the flash gun to the flash socket (20) of the camera. Ou table (see page 35) or the data of the flash bulb manufacturer will indicate the suitable shutter speeds and the synchronizing setting (X or M) of the green synchronizing lever (22) required in each case. For electronic flash the green lever must always be set to X. The aperture to be used can be obtained from the so-called guide

number included with each package of flash bulbs. Divide this auide number by the distance to obtain the aperture: = aperture f/8.

for instance, guide number 96 distance of 12 feet

The Self-timer

If you want to include yourself in a shot, set the green lever (22) to V. The lever can only be set to this position after operating the rapid

If you now press the shutter release, the ded action mechanism starts running down releases the shutter after about 10 second you have plenty of time to take your playour picture! Once the self-timer is tensify ou cannot alter the position of the green any more. Operate this lever therefore

If you use the self-timer for flash shots, the camera is automatically X-synchronized. For such shots therefore be sure to use the correct shutter speeds for X-synchronization (see table on the right)

MAZDy Flosh B Syndu Lever Type of Bulk	PH/8 PH 5 Bontom No. 5 No. 22 No. 22	
G.E., G.E.C., MAZDA SYLVANIA Flosh B nonconizing Synch ver Set to X Lever ver Set to X Lever Shutter Type Shutte rype	1 to 1/to second	
G. E. G.E.C SYLVANII Synchronizing Lever Set to X Type Shutte of Bulb speec	PH/M2 PH/SM SF	
ibs x x x x x x	1 to 1/so second	
SRAM Flosh Bulbs Synchronizing Lever Set to Mor X ype Shutter speed Bulb M X	1 to 1/ase second	
Syn Syn Sel Selb	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

Shutter speed 1 to 1 to 1 to 1 to

IMPORTANTS HINTS

Close-up Parallax

The reflected line frame in the finder makes accurate framing of the subject really easy. This is particularly important with calour shots, as you cannot normally crop a colour transparency. At subject distances below 8 feet if becames necessary to compensate for parallax. For that purpose take and the control that the property makes to the line forms of for

instance, the standard lens (dotted in the illustration) as the upper limit of the field of view at 2½ feet. At distances beyond 2½ feet this limit gradually moves upwards, until it coincides with the edge of the line frame



Similarly, use the dotted lines on the lin frames of the alternative lens units as th limits of the field of view at the correspond ing nearest facusing distances.

The Film Release

If you forgat to set the film counter when loading the film (see page 14), it may hopen hat the film counter reaches No. 1 before the film is finished. At No. 1, however, the rapid winding lever outhomicrally locks. You then have to re-adjust and advance the filmingly to mobile you'b work the rapid winding lever again and advance the filmingly to mobile you'b work the rapid winding lever again and advance the film relies before the film counter reaches No. 1, the rapid winding lever may block and stop in a half-very partial. Press the film release button (13) to

Deliberate Double Exposures

The double exposure lock of the RETINA prevents accidental double exposures. To make a double exposure for special effects, press the reversing button (36) after the first exposure, and keep it depressed while tensioning the shutter with the copid winding lever (34). The film then remains in position for a second exposure on the same frame. The film counter in this case indicates one frame more than you have in fact exposed.

Changing Partly Exposed Films

If you want to change a film already partly exposed against another one, rewind the film in the camera into its cassetle (see page 33). However, take care not to wind the trimmed film leader fully into the cassetle (stop rewinding immediately the reversing button (36) ceases to rotate), and note on the film leader the number of the last exposure read of the film country.

When reloading the partly exposed film proceed as described on page 12. As

before, set the film counter to the • mark near No. 20 or No. 36, according to the number of expoures. Close the camera back, and advance the fill by alternative working the rapid winding lever [34] and pressing the film release button [12]. On a occount press the shutter release. Corry on until the film counter indicates the same number at which you unloaded the film. To be on the safe side, advance the film by an extra frame.

Infra-red Photography

For shots on infra-red film use the small red dot, to the right of the normal focusing index (7) on the depth of field scale, as the focusing index. An infra-red filter must

Evesight Correction

The eyepiece of the RETINA is designed to permit easy viewing of the whole finder image even when wearing spectacles. For users with defective eyesight (other than astignatism) who do not wear spectacles a correction lens is available to special order (please state + or — dioptres required) for clearer vision of the finder even to the finder even of the

Care of the Camera

Protect your lens against injury, and avoid touching the glass surfaces. The best means of cleaning the glass surfaces and the finder eyepiece is a soft rag as used for cleaning spectacle lenses. Careful treatment especially of these parts of your RETINA II C will ensure really brilliant pictures. Clean also the film track and film chambers accessionally with a soft brush to remove any accumulated dust.

A Good Point:

KODACHROME film is easy to use right from the start. If you have ever taken black-and-white pictures, you only have to follow a few simple rules to turn out successful colour shots without the costly "experience" of loads of wasted films.

KODACHROME film is suitable for any subject and any light.

Direct color enlargements from your successful color transparencies are the latest KODACHROME development. Kodak color prints are supplied ready for mounting in your album in the following sizes: $2\% \times 3\%$, $3\% \times 5$ °, 5×7 °, 7×10 ° and 10×13 °.

The finished mounting of your transparencies, ready for projection, saves you both time and money. The KODACHROME processing service returns your finished slides right to your doorstep.

The outstandingly faithful colour rendering of KODACHROME film is mainly responsible for its great popularity. Once you have tried KODACHROME film, you will always stick to it.

MORE SCOPE WITH ACCESSORIES

The world-wide fame of the RETINA is based as much on its recognized precision as on its versatility.

The Lens Hood and Filters

A handy lens had is available for your RETINA, and is just as indispensable an accessory as the various filters for black-and-white and for colour photography. Note the light value corrections given on page 46 when using filters.

The Close-up Rangefinder

The RETINA close-up rangefinder with its two supplementary N-lenses opens up a fascinating world of small subjects. It permits close-ups over a range from about 38 to 12 inches.

The Close-up Attachment

With the aid of four sets of distance gauges and three supplementary Rlenses this will take close-ups on a scale of reproduction from 1:4.5 to 1:1.5 at distances from about 13 to 6 inches. The close-up attachment is specially useful for near shots of live subjects such as insects and butterflies.

The Table Stand

The highly versatile table stand has been designed for close-ups of subjects which require longer exposure times, and for all shots (especially interiors) where quick setting up and absolute steadiness of the camera are important.

The Copying Stand

For quick and convenient copying of documents, important letters, valuable prints, books, and collector's items from about 6.88 inches to 8x12 inches large, use the copying stand. A special lighting unit is available separately.

The Kodahlitz

Be ready for action with your RETINA at any time and in any light; get the handy KODABUTZ flash gun with its grained soft-light reflector. It its either into the heavest yet hace, or it can be fixed to the traped bash of your comera by measured to flash bracket. The 22.5 voit anode battery of the KODABUTZ will also have a stress of the without an additional power source.

The Kodalux L

We specially recommend this accessory, for accurate exposure is vital in photography, expecially with colour pictures. The Kodalau k is on exceptionally compact and handy photo-electric exposure meter which you simply in the accessory shoe of your REIINA. Aternatively, you can keep it in its leather case when taking readings. It is suitable for reflected and incident light readings, and directly indicates light values or apertures and shatter

The Camera Features



Button to open the camera front

setting index for apertures and shutte Aperture scale

Shutter speed scale Shutter speed setting ring Facusina index Depth of field scale

Button to close came Shutter release button

Film counter Film release button Lens panel

Red dot on lens mount Red dot on bayonet mount of

Focusing knob Film indicator

Flash socket

Focusing index for tele lens Green synchronizing and self-timer

Distance scale for tele lens with T1 close-up lens Distance scale for tele lens

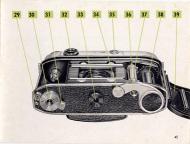
Light value setting lever Light value scale Distance scale for wide-angle lens Focusing index for wide-angle lens ripod bush

afety lever for button 29 yepiece of large-size view- and Locating hole for accessories Rapid winding lever Button to set film counter Reversing button

Transport sprovket







Light Value Correction with Filters

Colour filters are indispensable for good pic tures — the range covers colours from ligh yellow to blue. As you may know, most filter, have a so-called filter factor according to the density of the filter. You can allow for this factor on the light value scale.

Filter	Fector	Reduce Light Value Setting by		
Light yellow FI Madium yellow FII Yellow green FIII Orange FIV Red FV Blue FV Ultra-violet Folgrising filter	1½ x 2 x 2 x 3 x 7 x 2½ x ————————————————————————————————————	75 1 1 1 175 3 (2%) 1 15 (1%)		

Ape	fron	to	fron	to	fron	to	fron	100
2.8	25"	28"	2101	33.	3.4.	3.6.	3.5.	4.4.
4	25"	28"	2101	33"	33.	3'10"	3.8.	45
5.6	24"	29"	29"	34"	32"	4"	3.9.	4'8'
8	23"	2'10"	28"	36"	3.	4'3"	33"	411
11	22"	3"	26"	3'9"	270"	4'6"	32"	5'6'
16	21"	33"	24"	4'2"	28"	5'4"	2711	6.8.

2.5 3 3.5 4

There are also special filters for KODACHROME film.

Depth of Field Table (Sharp Zones' in Feet)

100000				
	Depth at	Distance	Setting in	Feet

4.5	5	6	7	8

35' 107' 39' 16' 4'2' 276' 4'5' 57'6' 4'11' 1st 5'4' 1st 5'10' 1st 6'10' 31' 177' 34' 49' 37' Int 310' Int 42' Int 45' Int

10

13'6" 91" 177" 107" 25'3" 14'9" 81" 20'10"

39" 510" 4" 68" 48" 88" 52" 11" 58" 1310" 66" 216" 74" 346" 84" 85" 107" 36" 69" 39" 710" 43" 103" 48" 149" 51" 20"5" 59" 439" 64" 192" 72" Inf