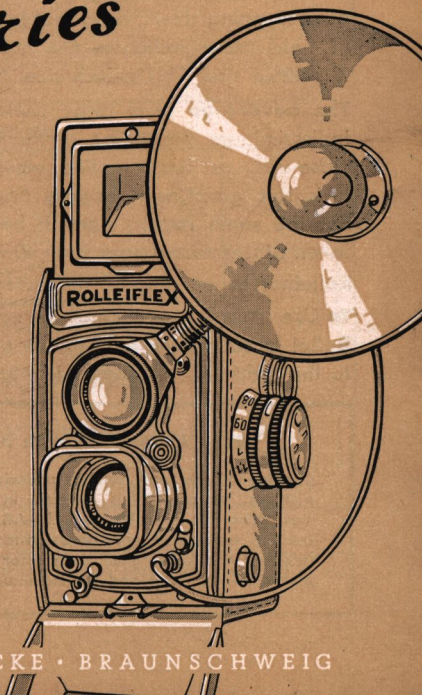


Rolleiflex
Rolleicord

®

*The
Practical
Accessories*



FRANKE & HEIDECKE • BRAUNSCHWEIG



ROLLEINAR LENSES 1 and 2

Designed for: Close-ups at distances of less than $39\frac{1}{2}$ in.

Application: Each set comprises two matched lenses, one each for finder and taking lens: Set 1 covers the range from $39\frac{1}{2}$ — $17\frac{3}{4}$ ($18\frac{1}{2}$) in.; set 2 from $19\frac{3}{4}$ — $12\frac{1}{8}$ ($12\frac{1}{2}$) in. (see page 3).

Focusing is accomplished as usual on the ground glass screen. The depth of field being rather limited at close range, considerable stopping down is advisable with Rolleinar lenses. The depth of field table indicates the most advantageous stops for the $2\frac{1}{4}\times 2\frac{1}{4}$ - and $1\times 1\frac{1}{2}$ -inch size.

The advantage of a large reproduction should not mislead to indiscriminate shortening of the camera-to-subject distance with close-ups, as this practice would entail danger of distortion. It is less great with objects having a shallow depth of field. For the same reason portrait heads should, if possible, not be taken at distances closer than 40 in.

Rolleinar Lenses require no increase of exposure.

To Use: Attach one each of the same Rolleinar set in front of both Rollei lenses (Rolleinar 2.8; see page 4): Insert bayonet and turn to the right until it snaps into place.

Lens Accessories with Anti-Reflection Coating

Coating of the lens surfaces materially increases the brilliance of the pictures. To retain this increase in contrast when using lens accessories, these too must be coated. All Rollei optical lens accessories are treated with a hard, abrasion-resistant anti-reflection coating. In addition the coating of each filter is adjusted to enhance the effect of the filter's color and for maximum contrast.

Focal Length and Focusing-Range with Rolleinar Lenses

Rolleinar Lenses	—	1	2
Focal Length	75 (80)* mm	71 (76)* mm	68 (72)* mm
Focusing-Range (in inches)	$\infty - 32$ ($\infty - 35^{1/2}$)*	$39^{3/2} - 17^{3/4}$ ($39^{1/2} - 18^{1/2}$)*	$19^{3/4} - 12^{1/8}$ ($19^{3/4} - 12^{1/2}$)*

Field-Size and Scale of Reproduction

Focused Distance	31 1/2 in.	19 3/4 in.	13 in.
Field-Size (in inches)	2 1/4 x 2 1/4	13 3/4 x 13 3/4	8 3/4 x 8 3/4
Rolleikin	9 x 12 1/2	5 1/2 x 7 7/8	3 1/2 x 5 1/8
Scale of Reproduction approx.	1:10	1:6.3	1:3.9

Depth of Field with Rolleinar Lenses

Rolleinar	1		2		f / Stop	
	Focused Distance (in inches)	31 1/2	23 1/2	19 3/4		
Depth of Field (in inches)	29 1/2—33 1/2	22 1/2—24 3/4	18 7/8—20 1/2		5.6	Rolleikin ↓
	28 3/4—34 1/4	22 1/4—25 1/4	18 3/4—20 7/8	15 1/8—16 1/2	8	
	28—35 3/4	21 5/8—26	18 1/8—21 1/4	15—16 7/8	11	
	26 3/4—38 1/4	20 7/8—27 1/4	17 3/4—22	14 5/8—17 1/4	16	2 1/4 x 2 1/4 ↓
	25 1/4—41 3/4	20—28 3/4	16 7/8—23 1/4	14 1/4—18 1/8	22	

Distances are measured from lens board to subject. The figures given in the tables are, for all practical purposes, usable with both 75 and 80 mm lenses. Permissible circle of confusion = approx. $1/1000$ of the focal length of 75 and 80 mm respectively.

* Figures given in parenthesis apply to a focal length of 80 mm.



ROLLEIPAR LENSES 1 and 2

Designed for: Correction of parallax when using Rolleinar lenses.

Application: Due to the narrow separation of the lenses, parallax (= the discrepancy between finder image and negative) is very small with Rolleicameras and has been fully corrected within the normal focusing range from

∞ — $39\frac{1}{2}$ in. For close-ups below $39\frac{1}{2}$ in., this will be accomplished by Rolleipar lenses.

The numbers 1 and 2 correspond to Rolleinar Sets 1 and 2.

For Use: Fasten the Rolleipar to the Rolleinar on the viewing lens. The marking (red dot or engraved double-arrow) must be on top.

ROLLEINAR 2.8 C (38 mm diameter)

These larger diameter close-up lenses incorporate the Rolleipar, built into the Heidosmat-Rolleinar. This is the unit for the viewing lens and should be attached last, with the red dot on top.



ROLLEI FILTERS

Designed for: Correction of color rendition (color sensitivity) of the film: Filters render their own color lighter and the one complementary to it darker in the print.

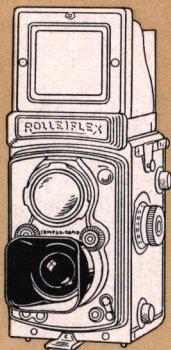
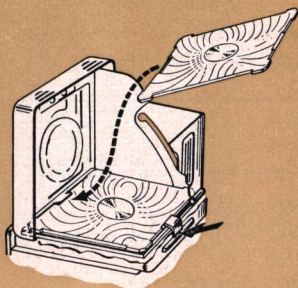
For Use: Fasten filter to inner bayonet of the taking lens. Increase exposure as indicated by filter factor.

Table of Rollei Filters

The filter factors indicate average values which, however, may be changed according to the particular type and make of film used and the light conditions.

Rollei Filter	Use	Filter Factor	
		Ortho	Pan
Light yellow	Landscapes, snow, clouds. Renders yellow and green lighter, blue darker.	3x	2x
Medium yellow		4x	3x
Light green	Landscapes, snow, clouds. Renders green lighter, red (complexion) and blue darker. For pan emulsions.	3x	2x
Green		4x	3x
Orange	Hazy distant views. Renders yellow-red lighter, blue darker, distant objects clearer.		3-7x
Light red	Hazy distant views. Renders red lighter, blue-green darker. Gives stronger effects than Orange Filter.		4-10x
Light blue	Artificial light. Renders red darker. For ultra-pan emulsions.	1.5x	1.5x
UV	High altitudes above 6000 feet. Seascapes. Eliminates ultra-violet rays which reduce contrast.	1.5x	1.5x
Infra-Red	Special filter for infra-red emulsions. Transmits dark red above 700 $m\mu$ and infra-red.		*)
H 1	UV-Filter, especially designed for long distance color photography. Absorbs ultra-violet rays, subdues predominance of blue and cuts aerial haze in distance shots.		No increase of exposure

*) Exposure depends on the type of emulsion used and must be determined by tests.



ROLLEIGRID LENS

Purpose: To brighten the ground glass screen image at the edges.

To Install: Place the Rolleigrid with the narrow front edge against the ground glass screen, let it slide forward under the retainer tab, then drop the rear end and fasten by means of the push-button at the rear of the focusing hood (see also p. 15, B 5). The condenser must be placed on the ground glass with the grooved side down.

To Remove: Turn the camera over, push the button, letting the Rolleigrid fall out of the hood.

To Clean Rolleigrid: Use a wad of cotton and a mild soap and water solution.

LENS HOOD

Designed for: Protection of the lens from extraneous light and to shield it from rain, snow or spray at watersports events.

For Use: Fasten lens hood to outer bayonet of the taking lens.



ROLLEIPOL

Purpose: Elimination or subduing of disturbing reflections (glare) from shiny, non-metallic objects or surfaces. Under certain conditions, filtering of the blue sky. Especially useful for regulation of the colors (colored reflections) and control of sky tone in color pictures.

Explanation: If the direction of movement of a light beam is imagined to be the axle of a wheel, then the spokes of the wheel correspond to the various plans of oscillation of the light waves; (i. e., we are looking at the light beam in cross-section). Polarization will reduce the many planes of oscillation to merely one.

Polarization takes place when light waves, striking at a certain angle, are reflected by shiny bodies (with the exception of metals). This polarized segment of light can be retained in full or in part by placing the RolleiPol filter across the plane of oscillation: the reflections disappear. (The filter itself has a polarizing effect on the light which passes through it.) Further, since there is also polarized light in the portions of blue sky facing the sun, the blue sky can also be partially subdued (darkened) by the RolleiPol filter.

Not all reflected light is polarized. If reflections are to be eliminated, 1. the filter must be turned (on its optical axis) in the direction of the vibrations as required, and 2. the camera position must be changed to gain the best effect. This is attained when the beam of light striking the reflecting body and the line of camera view form an angle of $60-74^{\circ}$, (varies according to material of the subject).

Application: 1. For eliminating or subduing disturbing reflections when photographing reflecting objects (polish, porcelain, painted and lacquered finishes, etc., — reproduction of textures and material), when photographing glass surfaces and the surface of water (the reflecting surfaces become transparent), 2. for filtering sky when photographing landscapes (taken with "the sun at your back"): the blue sky is darkened by absorption of the polarized light it contains. — In both cases: required increase of exposure: approximately $3\times$.

For Use: Fasten the RolleiPol filter with adapter ring in front of finder lens and rotate until desired effect is obtained, then transfer it in the same position (note white markings) to the bayonet mount of the taking lens.

ROLLEISOFT LENS 0 and 1

Purpose: Softening of super-critical definition producing striking fluffy halo-effects, especially with back-lighting.

Explanation: The taking lens of the Rollei gives super critical definition required for the majority of exposures. If, occasionally, softer definition is desired (e. g. for portraits and certain dramatic effects) this is obtained by attaching the Rolleisoft Soft Focus Lens in front of the lens.

The Rolleisoft lens consists of a plane parallel glass disc with a few concentric ground-in grooves. While otherwise the lens permits only sharpness or softness through adjustment of the focus, the Rolleisoft lens obtains both simultaneously: Between these grooves the rays of light pass unimpeded to the film and produce a sharp impression, i. e., the basis of the image. At the grooves however the light rays are diverted with the result that an additional image of slightly softer definition is superimposed. Both together produce the soft focus effect: The exposure shows fluffy softened contours and sunny halo-lights; distracting fine details recede and the total impression of depth definition is improved. By means of the Rolleisoft the Rollei-lens becomes a soft focus lens.

Application: Best results are obtained by using the entire surface of Rolleisoft, i. e., with full aperture. With Rolleisoft 1 (with increased number of grooves) it is permissible to stop down to f 5.6. Smaller apertures tend to decrease the soft focus effect.

Rolleisoft 0 is used for weak soft focus effect: primarily for strong contrasts of light and glittering objects, i. e., chiefly for backlighted subjects. Rolleisoft 1 is used for greater soft focus effect: for soft lighting. — Chief field of application generally: portraiture. Best suited for: contrasting, highlighted subjects. Rolleisoft increases the plastic, sunny character of backlighted pictures. Speed and focal length remain unchanged. Generous exposures increase the halo-effect. The ground glass screen shows full focused sharpness when using Rolleisoft lenses. The Rolleisoft effect can be judged at any time on the ground glass screen by placing the Rolleisoft in front of the finder lens.

For Use: Fasten Rolleisoft to inner bayonet of the taking lens.



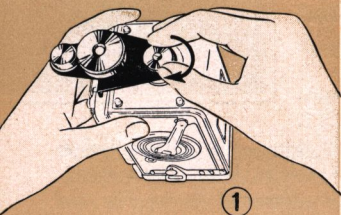


PANORAMA HEAD

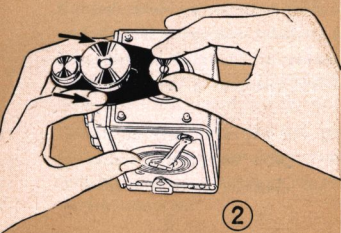
Designed for: Taking of panoramic views composed of 10 individual pictures.

For Use:

1. Screw panorama head at first only lightly into tripod socket.
2. Match pins and sockets of panorama head and camera, then press together.
3. Tighten screw firmly.
4. Screw in tripod.
5. Level off horizontally by centering bubble of spirit level.
6. For partial panoramic views start at the left, as the panorama head may be turned clockwise only.
7. For each successive exposure turn camera to the next click-stop number engraved on the base of the panorama head. 10 exposures give a panoramic view of 360° . Lateral overlapping of pictures ensures perfect joints.



①



②

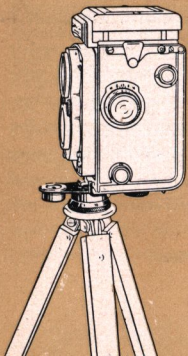


PLATE-ADAPTER

Designed for: Single $2\frac{1}{4} \times 2\frac{1}{4}$ inch-exposures on $2\frac{1}{2} \times 3\frac{1}{2}$ inch-plates or sheet-film. A desirable facility for the use of special emulsions, immediate or individual processing and such special tasks as studies of portraiture, trick-photography, reproductions, technical tests etc.

The outfit consists of:

1. Special Adapter Back
2. Single Plate Holders
3. Focusing-Screen Holder
4. Leather Case for 2 Plate Holders.

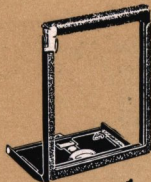
Also available:

5. Cut-Film Sheath.

All parts are available separately. Focusing is done as usual on the reflex focusing-screen and only in special cases (f. e. when using two Rolleinars combined, or utilizing the picture area to the fullest extent) on the adapter focusing-screen.

A. Attaching the Adapter Back

1. Remove take-up spool from camera.
2. Take off camera back.
3. Attach adapter back (without plate holder!).



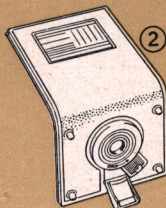
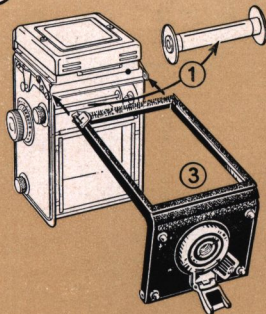
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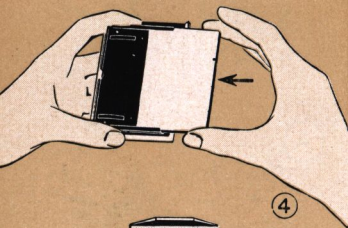
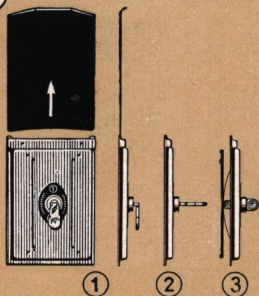
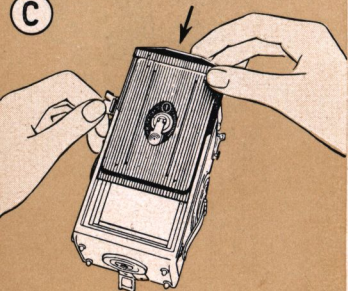
2



3



2

B**C****B. Loading the Plate-Holder**

1. Withdraw slide.
2. Lift up locking lever on back of holder and
3. let it slip inside after a quarter-turn. Spring action pushes out plate-carrier.
4. Slide plate (or cut-film with cut-film sheet placed underneath) into carrier.
5. Retract lever, lock by a quarter-turn and fold down (the number remaining visible). Close holder by reinserting slide.

Note: Conserve push-strip by always removing slide from empty holders before storing away.

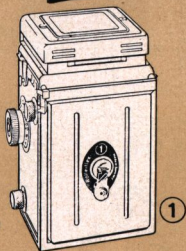
C. Inserting the Plate-Holder

Swing catch out of way and slide holder down the lateral grooves of the adapter back. The catch locks holder against unintentional removal.

D. Exposure

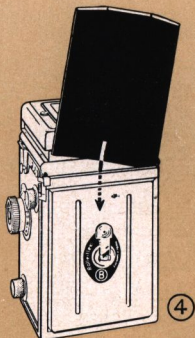
1. Withdraw slide.
2. Lift up lever and let it slip inside after a quarter-turn. The plate moves into the focal plane by spring action.
3. After the exposure, retract lever first, then fold upward after a quarter-turn. The letter "B" indicates that the plate has been exposed.
4. Only now reinsert slide.

D



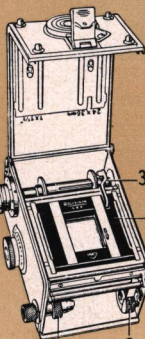
E. Focusing-Screen Holder

1. Insert the closed holder.
2. Withdraw slide. Spring action presses focusing screen automatically into the focal plane.
3. Reinsert slide first, and then remove holder.





1



7



8



9

ROLLEIKIN 2

Designed for: Taking up to 36 exposures $1 \times 1\frac{1}{2}$ in. on 35-mm.-film. Ideal for series of pictures and color photography on miniature film.

The attachment consists of:

1. Metal Case
2. Film Guide Frame
3. Take-up Spool
4. Exposure-Counter-Knob*
5. Extension-Spindle for Rewind-Knob
6. Inner Spool Knob
7. Focusing Screen Mask
8. Direct View Finder Mask
9. Lens Hood Mask.

Applicability of Rolleikin 2: Fits Rolleiflex above numbers 1100000 and Rolleicord above numbers 1137000. (The combination back for two picture sizes, which was originally not provided below these serial numbers, can be ordered additionally). — Earlier Rollei-models use Rolleikin 1 (with special back).

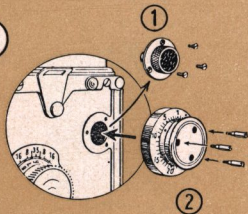
A. Installing the Counter-Knob*

(The exposure-counter-knob accepts 35 mm and No. 120-(B 2-) film. Your dealer will gladly take care of the fitting for you.)

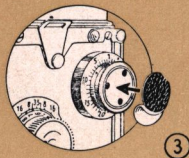
1. Remove the top film-knob by unscrewing the 3 counter-sunk screws.
2. Fasten counter-knob tightly by means of the three screws supplied.
3. Remove protective lining from gummed insert and paste it on the counter-knob.

* not required with ROLLEIKIN 2 C

A



2

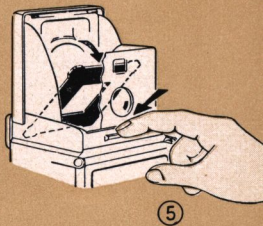
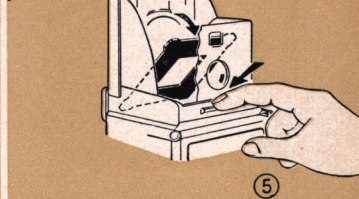
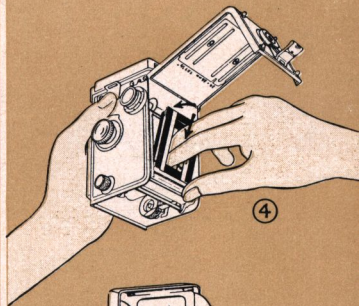
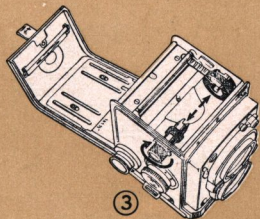
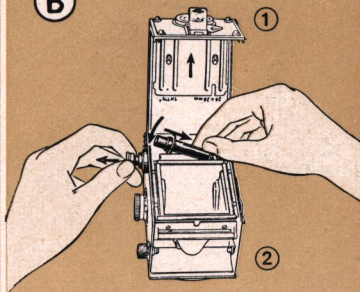


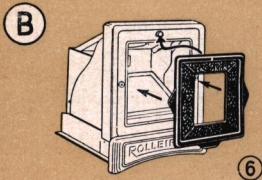
3

B. Assembling the Rolleikin

1. Adjust film pressure plate by a sliding movement, pressing down at the same time, thereby bringing the inscription "24×36 mm. (1×1½ in)" into view.
2. Pull counter-knob, fit-in take-up spool on the right and insert completely.
3. Rewind-Parts: Screw extension-spindle on rewind-knob by rotating the latter. Snap inner spool-knob over opposite spool bearing pin, (slipping the metal tongue between the rollers of the film-feed when using a Rolleiflex).
4. Inserting the film guide frame: Press spring actuated clamp-bar at an acute angle (as shown) against the bottom of the film gate and insert completely. To remove: Push frame downward (against the clamp-bar) and lift out.
5. First insert forward edge of focusing screen mask under the grip, snap down and secure by pressing the retaining device. Be sure the mask is properly centered inside the ground glass frame.

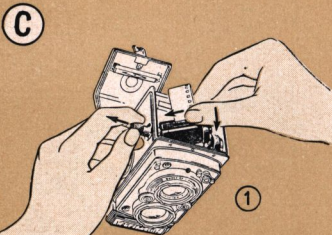
(B)



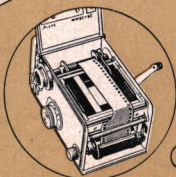


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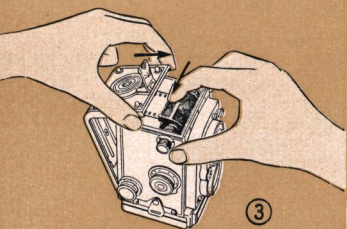
6. Insert the frame-finder mask underneath the button above the frame-finder in such a way that the edge (marked with a white dot) is pushed-in first, then press the two lateral fixing buttons into position.



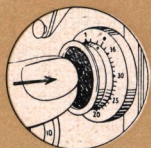
1



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3



4

C. Loading

1. Open camera back, pull rewind-knob, fit-in film cartridge on the left and then insert fully.
2. Introduce film-lead (which — in the Automatic Rolleiflex — first passes through the film-feed rollers) into the double slit of the take-up spool, letting it touch on the right. Tighten up by giving spool a short turn.
3. Make sure the mouth of the cartridge points straight ahead in line with the tightened film lead, then close back.
4. Press-and-release counter-knob until the red dots of the Rolleikin counter face each other. (Disregard counter for No. 120-[B 2-] film completely.)
5. To set counter for the first exposure: Advance counter dial to No. 1 by actuating filmtransport three times (see page 17).

D. Filmtransport

1. Press-and-release counter-knob before actuating filmtransport. The exposure counter advances automatically to the next number.
2. Advance film as usual to the stop.

E. Rewinding

1. After the last exposure has been made, rewind film by keeping counter-knob pressed down,
2. simultaneously rotating rewind-knob clockwise.

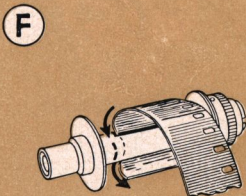
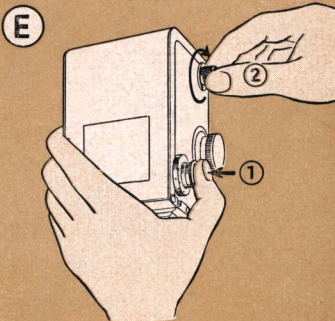
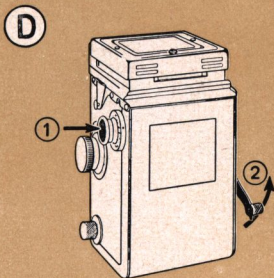
F. Note

1. The rewind also permits the removal of only partially exposed films. In order to prevent the film lead from slipping into the cartridge when rewinding, be sure to thread the film backward, i. e., against the winding direction into the double-slit of the take-up spool when loading.

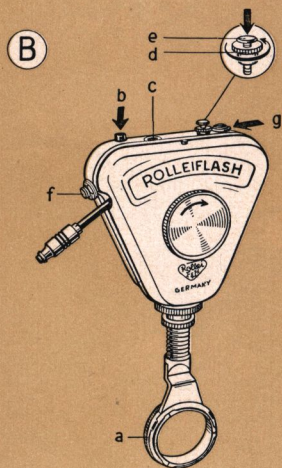
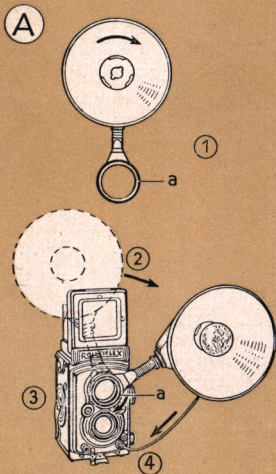
When reloading a partially exposed cartridge, advance film two frames beyond the last exposure (skipping one frame for safety).

2. Always adjust film pressure plate properly (see B 1)! (A sure sign of incorrect adjustment when using the Rolleikin: Camera back will not close all the way.)

3. When using the Rolleikin it will be convenient to keep the empty roll film spool in the Rolleikin case (next to the insert for the Rolleikin take-up spool) since it will be required the next time roll film is to be used.



①



ROLLEIFLASH

Purpose: Synchronized flash exposures with the Rollei.

Applicable: Flashbulbs with bayonet base (swan).

B-C principle (Battery-capacitor firing).

A. Mounting Rolleiflash

1. Fasten reflector on case by turning it clockwise in bayonet.
2. Fasten holding arm to bayonet of the viewing lens and
3. Secure by turning lock ring **a** clockwise. — Before removing: first loosen lock ring by turning counter-clockwise.
4. Pull out the cable and plug it into the flash socket on the camera. — To roll up the cord: use turn-knob (on cover of case).

B. Exposure

1. Insert flash lamp as far as necessary to seat in the bayonet socket.
2. Test circuit: Press test key **b** — brief flash of the test lamp **c** indicates positive firing of flash lamp.
3. Synchronized flash-firing: by releasing camera shutter (see directions for using camera).

Open-flash method (Firing by hand contact in making time exposures): loosen safety screw ring **d**, press hand contact **e**. Always secure hand contact when not in use!

The connector **f** is for use with the supplementary flash unit Rolleiflash-Comb.

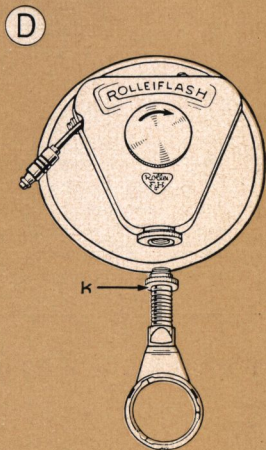
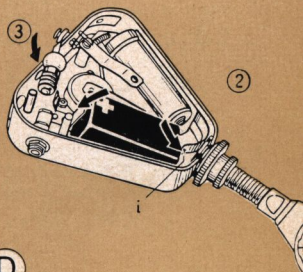
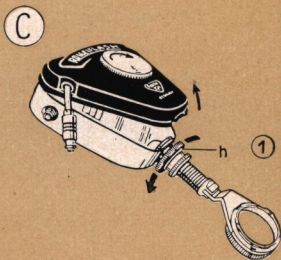
- Lamp ejection: by pressing ejector button **g** — the lamp is forcefully ejected.

C. Changing Batteries

- Loosen screw ring **h** slightly, open case upwards and remove. — To close the case: First attach cover with retaining pin on case, close tight, tighten screw ring **h**.
- Changing the battery: Important! The **+** pole must always point toward the test lamp! Wrong insertion of battery would damage the condenser. Insertion of fresh battery (flat cell hearing aid battery 22,5 v.): press back contact spring **i** with the battery, snap battery in.
- Changing test bulb: As replacement for defective lamps press same-type 6 v. glow lamp (0,05—0,07 ampères) between contact springs.

D. Flexible Arm

The flexible holding arm can be unscrewed from the case when the Rolleiflash attachment is to be fastened directly onto a tripod by the base thread. To replace holding arm: turn back screw ring **k** on holding arm as far as it will go, screw arm into case (up to correct position of bayonet ring) and secure by turning screw ring **k** clockwise.



E. Rolleiflash-Comb.

Screw the cable end connectors to the Rolleiflash and Rolleiflash-Comb. The Rolleiflash-Comb. can either be hand-held or fastened to a tripod by the socket provided. The second connector is for an additional Rolleiflash-Comb., if used. A total of three lamps may thus be fired simultaneously. Extension cords for Rolleiflash and Rolleiflash-Comb. are available to vary the lamp distance to a total cable footage of 33 feet.

Note when using Rolleiflash:

1. To avoid unnecessary drain of the battery: Insert flash lamps just before exposure and eject immediately afterwards.
2. When using more than one lamp, start with insertion of lamp in main unit at camera.

Lens Accessories should be attached in the following order:

Taking Lens

1. Rolleinar
2. Rolleisoft
3. Filter or Rolleipol
4. Lens Hood

Viewing Lens

5. Rolleinar
6. Rolleipar

If only one of the supplementary lenses is to be used with a filter, the correct rule for mounting is "always attach Rolleinar first (lens to lens) — the filter should be last".

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When ordering, please note!

The bayonet mounting accessories for Rollei cameras with 80 mm focal length lens are of a larger diameter. The optical lens accessories for all cameras, as well as the lens hoods, Rolleikin and Rolleiflash, are supplied to exactly meet the requirements of the various models. **Be sure**, when ordering, to supply the following data: lens type, lens number, camera serial number.

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