

THE PRACTICAL ACCESSORIES

Rollei



Are They Necessary?

When you have read through these pages at leisure the answer is easy.

Everybody has his favourite subject: landscapes, portraits, close-ups, action shots, copying—right through the list to underwater photography. You already have the camera for all of these.

But to give your pictures the finishing touch you do need some accessories: for dramatic cloud effects with black-and-white pictures, delicate luminous outlines with portraits, or perfect color rendering in your slides.

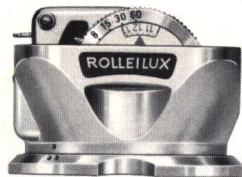
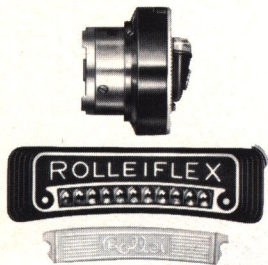
If you are still more ambitious, you can take pictures under water, through the microscope, produce marvellous panoramas, use different focal lengths, release the shutter by remote control—and you can even project with your Rollei.

All this you can do with *The Practical Accessories*. The Rollei idea becomes a comprehensive photographic system: everything for one camera—one camera for everything.

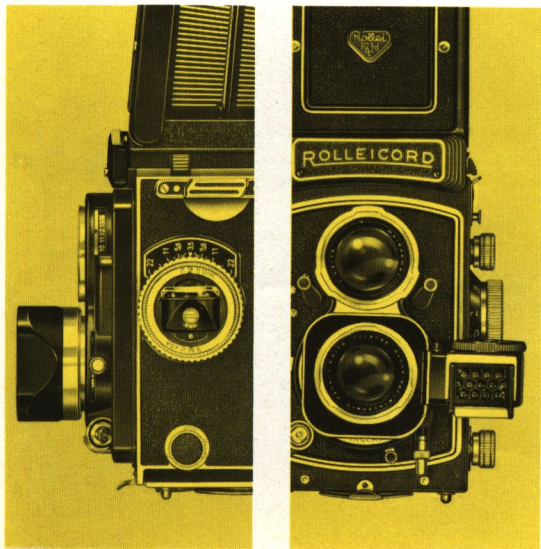
Like the Rollei lenses, all optical accessories have an abrasion-resistant anti-reflection coating. Thus the considerably increased picture brilliance is maintained fully when using the lens accessories. A special double coating, individually adjusted for each filter color, enhances the filter effect for maximum contrast in the individual transmission range.

Rollei lens attachments are available in the following bayonet mount sizes:

- I (4 x 4): for the Rollei flex 4 x 4
- I (6 x 6): for 2¹/₄ x 2¹/₄" (6 x 6 cm.) Rollei cameras with Tessar, Xenar and Triotar lenses
- II : for 2¹/₄ x 2¹/₄" (6 x 6 cm.) Rollei cameras with Planar and Xenotar f/3.5 lenses and for the Rollei-magic
- III : for 2¹/₄ x 2¹/₄" (6 x 6 cm.) Rollei flex models with Planar and Xenotar f/2.8 lenses and with the Sonnar f/4
- IV : for the 2¹/₄ x 2¹/₄" (6 x 6 cm.) Rollei flex with the Distagon f/4.



Lens Hood Exposure Meter



The Lens Hood

The lens hood is useful and necessary if the lens is subjected to the influence of strong light sources and reflections (beach, water, snow, artificial light) or rain and water splashes. To be on the safe side, use it regularly.

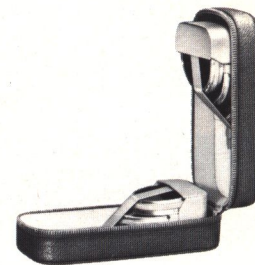
Accessory Exposure Meter

Available in bayonet size I for Tessar, Xenar, or Triotar f/3.5. For most accurate results, an exposure meter should be firmly attached to the camera, with the exposure reading visible from the shooting position. These advantages are combined by the Rolleilux in a very practical way: the hinged exposure meter with the lens hood lets you make combined use of two accessories. Placed right beside the lens, it is conveniently in view at all times. While you are selecting your subject, the follow-up pointer determines exposure value and speed/stop combinations. Incident light measurements with diffusor are also possible. The gray or brown leather container, matching the camera case, is attached to the neck strap and keeps the Rolleilux handy at all times.

Built-in Exposure Meter

For Rolleiflex 2 1/4 x 2 1/4" designed for subsequent fitting. This item consists of name-plate with photo electric cell, measuring instrument (meter) and incident light diffusor. Installation is easy and simple. You can ask your dealer to do it for you.

Filters for Color Photography



Color Conversion Filters

The color rendering of color films depends on the quality of the light reaching the subject. Special Rollei Color Conversion Filters are available to compensate for variations in the light quality, and can be used to achieve correct color balance under different conditions, or to control the color rendering to any desired degree.

The range of such filters for the color photographer consists of two types in four depths each: the reddish R-filters tone down excessive blueness, and the blue B-filters compensate for too red a rendering. By combining any two filters of the basic depths of 1, 2, 5 and 11 (the numbers correspond to decimired shifts) intermediate filter corrections are also possible. The filters R 1 and R 2 are particularly useful for daylight shots to eliminate blue casts, and act like a "skylight" filter. The B series of filters adapts daylight type color film to achieve correct color values with tungsten or clear flash illumination. (Normally use a B 11 + B 2 combination.) The eight filters are available singly or as a set of six in a leather case.

The H 1-Filter

A colorless filter for daylight color film. It reduces the atmospheric haze in distance shots. Recommended for general use in color photography. Available in bayonet size I only. The Planar, Xenotar, Distagon and Sonnar lenses have the inherent characteristics of the H 1-filter.



J. Illenberger



Filters for Black-and-White Photography



Rollei filters add atmosphere to your pictures: light and medium yellow filters create clouds and snow shadows, light green and green produce a better tonal separation of greens and foliage. Orange filters, and more so red filters, darken the sky to dramatic proportions, if desired and improve visibility on hazy days. The blue filter, on the other hand, increases fog and atmospheric haze. Very often filters are needed to separate more clearly colors of identical intensity: contrast is increased, and the film records the filtered colors with more clarity and detail. Special filters for black-and-white photography:

UV Protection Filter—important protection against contrast-decreasing ultra violet rays in high altitudes above 6000 feet and on the sea, if none of the aforementioned filters is being used.

Infrared Filter, made especially for infrared material, transmits dark red above 700 $m\mu$ and infrared with ground-in focus compensation. To be used for moonlight effects, to penetrate haze, and many scientific applications.

Neutral Density Filters 2 and 4, to reduce the exposure value (to be able to use a wide range of speed/stop combinations) when working with ultra high speed films (black-and-white and color).

The filter factor for the required exposure value correction is engraved on the mount of each filter.

Lim Ming Chiang

Yellow filter

Supplementary Lenses for Close-ups and Copying

With the Rolleinar lenses you can begin to explore the world of near subjects. The Rolleinars are supplementary lenses which fit in pairs in front of the camera lenses.

In this way you can go below the normal near focusing limit and with a suitable set of Rolleinars get as close as 18", 12¹/₂" or 9¹/₂" to the subject. You take the picture in the usual way, without any exposure increase, and observe the image and the field of view taken in on the focusing screen.

The Rolleinar on the finder lens automatically provides parallax correction. The reduced subject distance yields images up to one-third natural size. So a three-fold magnification of the negative is sufficient to yield a same-size macro effect.

The Rolleinar lenses are available in three matched sets of pairs:

Rolleinar 1 for subject distances from 39¹/₂ to 17³/₄" (100 to 45 cm.), Rolleinar 2 for subject distances from 19³/₄ to 12¹/₈" (50 to 31 cm.), Rolleinar 3 for subject distances from 12¹/₂ to 9¹/₂" (32 to 24 cm.).

The Tele-Rolleiflex has a different focusing range, and two further Rolleinar sets are available for it:

Rolleinar 0.35 for subject distances from 9 to 4¹/₂ feet (280 to 135 cm.), Rolleinar 0.7 for subject distances from 4¹/₂ to 3 feet (138 to 93 cm.).

Both these pairs of supplementary lenses have a twin mount with—in the case of the 0.35 set—an additional hinged fitting. In this way the normal focusing range of the Tele-Rolleiflex can be extended directly down to 4¹/₂ feet. Both these special Rolleinar sets have bayonet front mounting rings and can thus be combined with the normal Rolleinar sets 1, 2 and 3 to cover the same continuous close-up range.

With the Wide-angle Rolleiflex you can focus down to 2 feet (60 cm.) even without supplementary lenses. The Rolleinar set 2 (Bayonet mount size IV) extends the near focusing range down to 9¹/₂" (24 cm.).





Left:
Rolleiflex 2.8 F (with Planar),
with Rolleinar No. 1.
Rolleipol and lens hood.
Right:
Rolleicord with Rolleinar No. 2
and Rolleisoft 1.

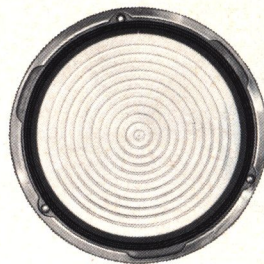


H. Reither



J. Baudisch

The Soft-focus Attachments



Rolleisoft transforms the needle-sharp Rollei picture into an image of lesser sharpness (not unsharpness), preferred especially in portraits: the skin is straightened, indiscrete wrinkles disappear the photocosmetic way, without any further retouching. The critical lens now works as a soft focus lens.

The effect can be observed on the focusing screen, the best results being obtained with back lighting: Rolleisoft makes highlights look like glamorous halos and creates a highly artistic mood.

Rolleisoft is used in strengths 0 and 1 and is attached like a filter (no exposure increase).

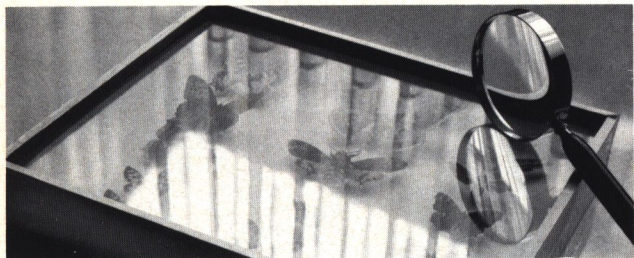
C. Albrand



Rolleisoft 1



The Polarizing Screen



C. Albrand

The Rolleipol is a marvelous tool: just a slight turn of the filter in front of the lens eliminates the unwanted reflections from shiny, non-metallic surfaces. Reflecting windows and glasses become transparent, the surface structure of polished materials appears, the light penetrates through the reflecting surface.

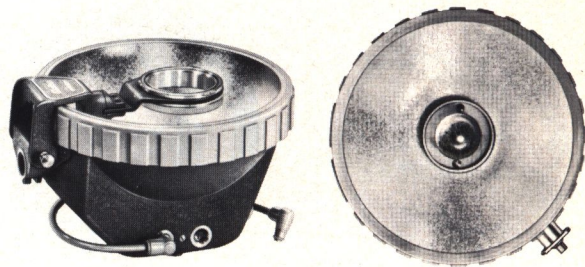


Rolleipol

Rolleipol helps where other accessories fail. Also very useful for correcting the color rendition of landscapes and scenic views on color films darkening the blue sky without affecting the other colors.

Exposure value correction: -1.5 .

The Flashgun



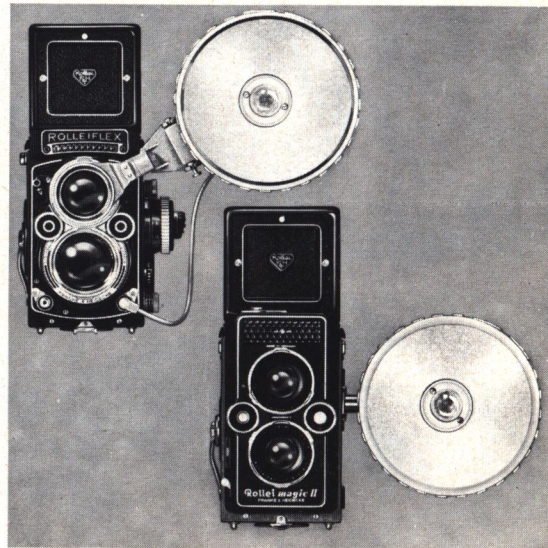
Whether you want to shoot at night or fill in some shadows during the day: the Rolleiflash 2 is the ideal flashgun for your Rolleiflex. Bulbs with three different bases (including European type baseless bulbs) can be used, right size flash bulbs are obtainable anywhere. A variable reflector permits adjustment for wide-angle coverage or concentrated beam for long shots—in accordance with subject distance or picture format used. An adjustable dial indicates the proper f: stop for each distance.

The Rolleiflash 2 has a bracket which fits into the bayonet mount of the viewing lens. This is available in the bayonet sizes I, II, III and IV for the different camera models. For the two Rollei-magic models the flashgun is available in a special version: the Rolleiflash M with a contact foot which at the same time serves to fix the gun to the side of the camera. Both versions of the Rolleiflash have a test lamp, bulb ejector and hand firing switch.

For special lighting effects or for lighting large rooms you can connect one or more Rolleiflash comb 2 extension units and simultaneously fire two to three bulbs.

Other accessories for the Rolleiflash 2 include a carrying case for one flashgun, a 10 foot (3 m.) cord, a 32" (80 cm.) cord, an extending coiled cord (12 to 39" or 30 to 100 cm.), and a connector for two cords.

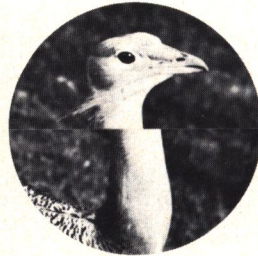
In addition, 32" (80 cm.) and 6 foot (2 m.) flash connecting cord are available for the Rollei to connect electronic flash units without the locking flash plug. These leads have a right-angle plug and a free cable end for connecting to the flash unit.



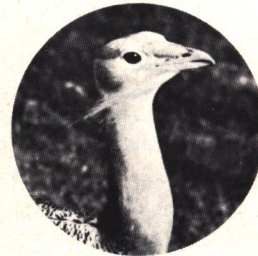
Focusing Screen with Rangefinder Wedge



H. Gabriel



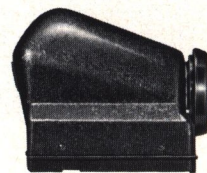
The optical wedges in the centre of the focusing screen provide an additional means of checking image sharpness. They act as a split-image rangefinder: when the two halves of the image are lined up you are sure of pin-sharp definition.



The clear area of the wedges shows the image in its full brightness—a special asset when working in poor light or with dark subjects.

The new screen can be built into all $2\frac{1}{4} \times 2\frac{1}{4}$ " Rolleiflex models.

The Penta Prism

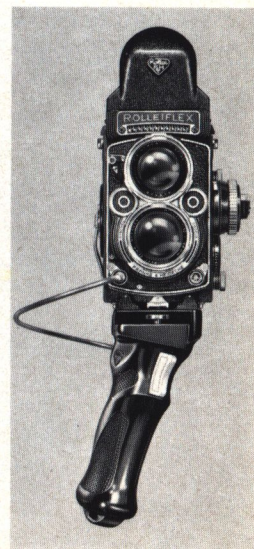


The Rollei Penta Prism now combines eye-level perspective with Rollei's well-known positive focusing. This attachment is preferred for press work, sports and action pictures, flash photography and portraits, especially when used with the pistol grip. You see the entire screen image, upright and the right way round, through a magnifier.

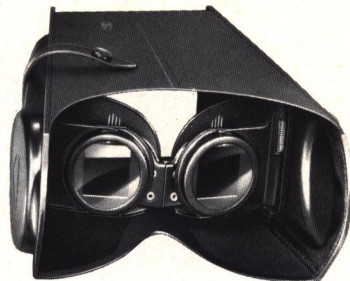
An adjustable rubber eyepiece completely eliminates reflections, the focusing magnifier can be exchanged to adjust for your eyesight. Turning the camera permits overhead shooting. To compensate for eyesight variations you only have to change the eyepiece of the Rollei Penta Prism. For viewing without spectacles, interchangeable eyepieces are available in dioptric powers of 0 (normal), or ± 1 , 2 and 3, according to the prescription for the distant-viewing glasses.

The Penta B special eyepiece is universally suitable for every kind of eyesight: both for normal eyes and for viewing with spectacles. Even at the increased distance from the eyepiece occasioned by the spectacles, you still see the full screen image. The latter appears perfectly clear, irrespective of eyesight defects, which are already corrected by the spectacles.

The Penta Prism fits all 2 1/4 x 2 1/4" (6 x 6 cm.) Rollei models which have an interchangeable focusing hood. (Older models can be converted).



Pistol Grip



Extension Focusing Hood

The Rollei Pistol Grip

As the name implies, a grip handle shaped to fit the hand with trigger and cable release. The left hand remains free for focusing.

The Rollei Pistol Grip is a valuable tool for press work and action shots or for convenient eye-level focusing with direct viewfinder or Penta Prism. The handle has provision for attaching a flash bracket. The Rolleifix-type quick-fastening clamp facilitates attachment of the camera. A lock prevents accidental releasing.

The Rollei Pistol Grip and Rolleifix (→page 16) fit all Rollei models which have the required clamping groove at the edge of the flange surrounding the tripod bush.



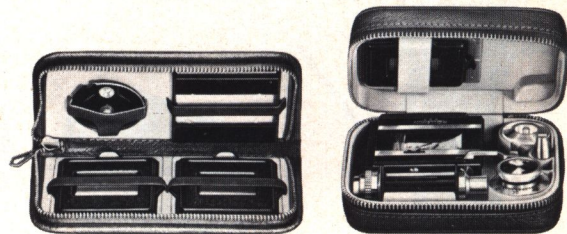
Extension Focusing Hood with Binocular Magnifiers

The leather hood fitting over the focusing hood fulfills a dual purpose; the binocular magnifiers show the viewing image in 2 x magnification and permit undistracted viewing without any reflections from extraneous light. The binocular extension hood is recommended for Rollei models with ground glass screen and non-detachable hood. It permits observation of the 2 x enlarged image with both eyes.

The close fitting hood keeps out all side light and increases considerably the brightness of the viewing picture. Both magnifiers can be adjusted individually to the interocular distance.

They snap into position when opening the hood. It closes and folds flat to the size of an eye glass case in one simple operation.

Five Picture Sizes



The universal $2\frac{1}{4} \times 2\frac{1}{4}$ " negative format is only one of Rollei's possibilities, as this camera meets special requirements also. If the subject does not cover the entire negative area, or you want to create a tele effect by using a reduced format, or if you wish to avoid changing rolls during a picture series or make more economical use of the film—just a few simple operations and your Rollei is transformed into a miniature camera.

With Rollfilm

[$1\frac{5}{8} \times 2\frac{1}{8}$ " (4 x 5.5 cm.), $1\frac{5}{8} \times 1\frac{5}{8}$ " (4 x 4 cm.), 28 x 40 mm., 24 x 36 mm.]

Masking can reduce the 6 x 6 size to 4 x 5.5 cm. (to include 4 x 4 cm.) and which gives 4 pictures more per roll! The Rollei now yields 16 instead of 12 exposures, which can be used at your choosing as the rectangular format 4 x 5.5 cm. or as the 4 x 4 cm. super slide for modern slide projection.

Availability of masks: Masking Set 16 is suitable for Rolleiflex T, Rollei-magic, Rollei-magic II; a 16-exposure adapter is available for the Rolleicord Vb. It is also possible to change the Rolleicord Vb with a 24-exposure adapter to the masked format 28 x 40 mm. (to include 24 x 36 mm.).

With 35 mm. Film [24 x 36 mm.]

With the Rolleikin, the Rollei is transformed into a miniature camera for 24 x 36 mm. pictures, using 35 mm. film cassettes for 20 or 36 exposures.

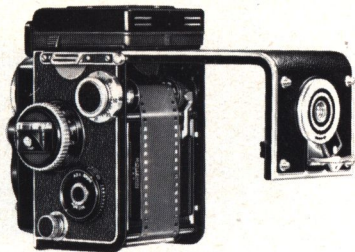
The advantages are increased number of pictures without reloading; telephoto effect with the normal lens because of the reduced image area; saving of film for subjects which need only a limited section of the full format; possibility of exchanging partly exposed films.

For older models:

Rolleikin 1 (35 mm. adapter with special back) for $2\frac{1}{4} \times 2\frac{1}{4}$ " (6 x 6 cm.) Rollei cameras with serial Nos. from 200 000 to 567 000 (require factory conversion) to 1 099 999 (Rolleiflex), to 1 136 999 (Rolleicord).

Rolleikin 35 mm. adapter for Rolleicord models from No. 1 137 000 for Rolleiflex 3.5 No. 1 100 000, for Rolleiflex 2.8 from No. 2 350 000, for Tele-Rolleiflex from No. 2 305 001, for Wide-angle Rolleiflex from No. 2 490 000.

Rolleikin 2.8 for Rolleiflex 2.8 models up to No. 1 665 999, for Tele-Rolleiflex up to No. 2 305 000.



The Rolleikin adapter can be used
with the Rolleicord Vb
and with the Rolleiflex models
T, 3.5 F, 2.8 F, Tele and Wide-angle.



1



3



4



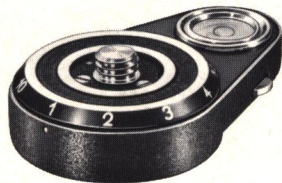
5



2

- | | | | |
|------------------|---------------|---|---|
| C. Albrand | (4 x 5.5 cm.) | 1 ⁵ / ₈ x 2 ¹ / ₈ " | 1 |
| H. Müller-Brunke | (28 x 40 mm.) | 1 ¹ / ₈ x 1 ⁵ / ₈ " | 2 |
| W. Präpst | (6 x 6 cm.) | 2 ¹ / ₄ x 2 ¹ / ₄ " | 3 |
| H. Kipp-Sprüngli | (4 x 4 cm.) | 1 ⁵ / ₈ x 1 ⁵ / ₈ " | 4 |
| A. Trietsch | (24 x 36 mm.) | 1 x 1 ¹ / ₂ " | 5 |

The Panorama Head The Tripod Head



The Panorama Head

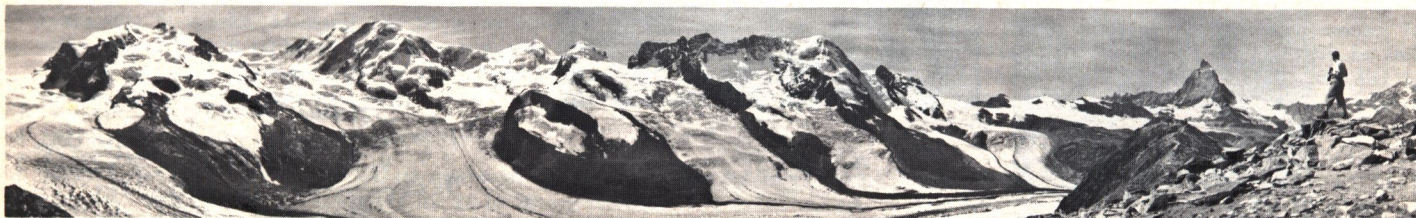
Rollei even lets you take landscapes composed of two or more individual pictures—the Panorama Head is the "Super Wide Angle" used in landscape photography with a Rollei. This tripod head delivers a complete 360° panorama with 10 consecutive exposures; a self-locking push button secures the camera in shooting position. After matching the individual exposures, they are mounted to form the panorama. Very often two or three pictures are sufficient to create a wide angle effect with the standard Rollei focal length.

The panorama head is available with English ($\frac{1}{4}$ ") and Continental ($\frac{3}{8}$ ") tripod bush, and with a special calibration of the rotating scale for the Tele-Rolleiflex.

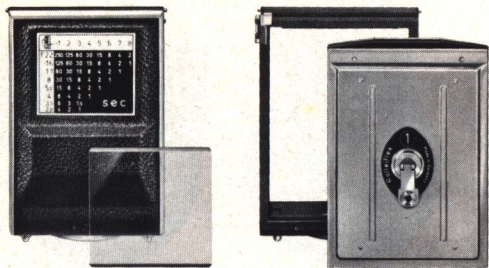
The Tripod Head

Rolleiflex eliminates the conventional, time consuming method of screwing the camera onto a tripod: just slide the Rollei (→ page 13) forward into the retaining grooves and throw locking lever upward to secure the camera.

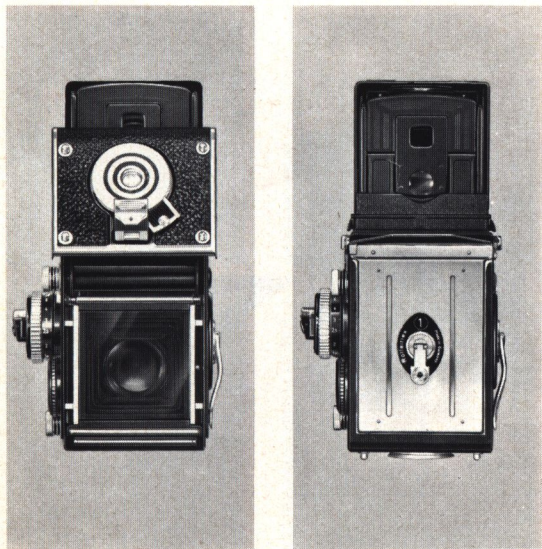
The tripod attachment remains fixed to the tripod or flashgun bracket. Within seconds, the Rollei is safely and firmly mounted or removed.



C. Albrand



The Cut Film and Plate Adapter Optically Flat Glass Plate



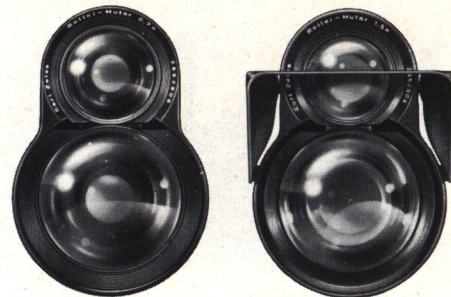
The 2 1/4 x 2 1/4" (6 x 6 cm.) Cut Film and Plate Adapter Back

Plates and especially cut film (for color!) have quite a number of advantages: you can take individual exposures when in a hurry, use repro material and special emulsions, adjust processing for any desired effect and obtain a finished picture without delay. Excellent for photomicrography and macro photography. This is the practical value of the Rolleiflex Plate Adapter. It uses 2 1/2 x 3 1/2" plates or cut film for 2 1/4 x 2 1/4" pictures. The basic adapter outfit consists of: 1 plate and cut film back to be exchanged for the regular camera back plus 3 plate and cut film holders, with cut film sheaths. Also available, individually, are: adapter back, plate and cut film holders, cut film sheath, leather case for 2 holders and ground glass rear focusing screen, for direct focusing through the taking lens.

Optically Flat Glass Plate

A further assurance for perfect sharpness, the plane parallel glass plate increases the exactness of Rolleiflex precisely engineered film channel to the obtainable maximum. The glass keeps the film positively flat like a plate, providing maximum detail and resolution for extremely exacting enlargements. The optically flat glass plate can be used with the following Rolleiflex models: 3.5 E 3, 3.5 F (serial numbers above 2 230 000), 2.8 E 2, 2.8 E 3, 2.8 F. Both the Tele and Wide-angle Rolleiflex include the optically flat glass plate in the basic outfit. Spare optically flat glass plates are available separately.

The Tele and Wide-angle Lens Attachments

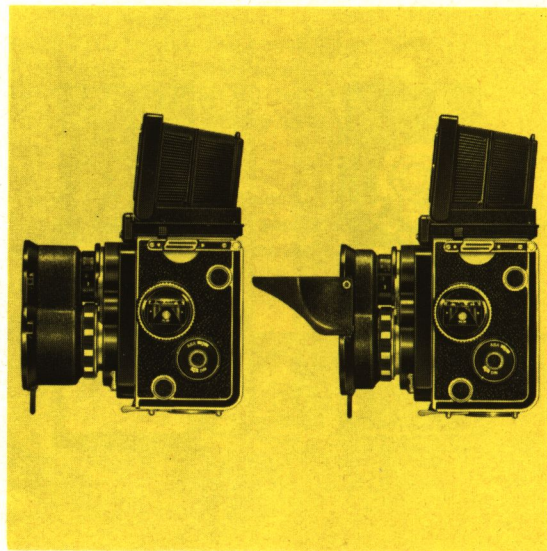


With its large scale of reproduction and the big image size the standard focal length of the Rollei perfectly covers all main fields of photography.

There are however special cases where a different focal length is desirable. A long focus lens increases the scale of reproduction of distant subjects; a shorter focal length enables the picture to take in a wider angle of view. This is where the Rollei Mutar lenses become useful. These high-class optical lens attachments change the basic focal length by a factor of appr. 1.5 or appr. 0.7 respectively. They also alter the scale of reproduction and the angle of view accordingly.

The Rollei Mutar 1.5 x lens changes the Rollei lens into a telephoto lens. With its 1.5-times linear magnification it brings the subject nearer to the camera—useful for rapid sports and action shots, landscape views or inaccessible detail. You can shoot from a greater distance, and still achieve the same large scale of reproduction.

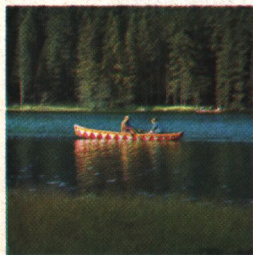
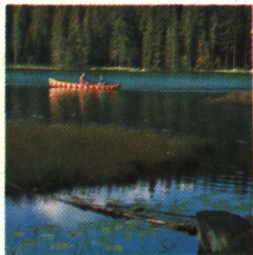
The Rollei Mutar 0.7 x lens turns the Rollei into a wide-angle camera. It increases the field of view and reduces the required subject distance. Even at close range the camera takes in the whole subject and at greater distances you have an extra margin. That provides the necessary elbow room for taking high buildings, extended industrial plants, or broad landscape views, and for shooting indoors in confined quarters.



Above:
without Rollei Mutar
(angle of view 53°).
Below:
with Rollei Mutar 1.5 x
(angle of view 38°).

Above:
without Rollei Mutar
(angle of view 53°).
Below:
with Rollei Mutar 0.7 x
(angle of view 69°).

The Rollei Mutar lenses
have a size II bayonet
mount and are adapted to
bayonet sizes I and III by
additional pairs of inter-
changeable adapter rings.



The Rollei Mutar lenses are twin attachments which fit into the bayonet mount of the camera lens—as quickly and as easily as a filter. They involve no lens changing. You only modify the focal length of the camera lens. You shoot with virtually the same lens speed (exposure value correction: -0.5) and the accustomed reliability of sharp focusing. The finder image remains visible all the time.

Bayonet Size	Lens	Focal Length	Angle of View 2 1/4 x 2 1/4" (6 x 6 cm.) 24 x 36 mm.	
I (6 x 6), II	with Rollei Mutar 0.7 x	54 mm.	72°	43°
	without Rollei Mutar	75 mm.	56°	32°
	with Rollei Mutar 1.5 x	109 mm.	40°	22°
III (not for the Tele- Rolleiflex)	with Rollei Mutar 0.7 x	57 mm.	69°	41°
	without Rollei Mutar	80 mm.	53°	30°
	with Rollei Mutar 1.5 x	116 mm.	38°	21°

Accessories to the Rollei Mutar include: Lens hood, Rollei filters in special screw mounts, leather case (for the Rollei Mutar lenses with lens hood in position), can also be combined to form a double case for both Rollei Mutar lenses.

E. Berenfeld

U. Schultheiß

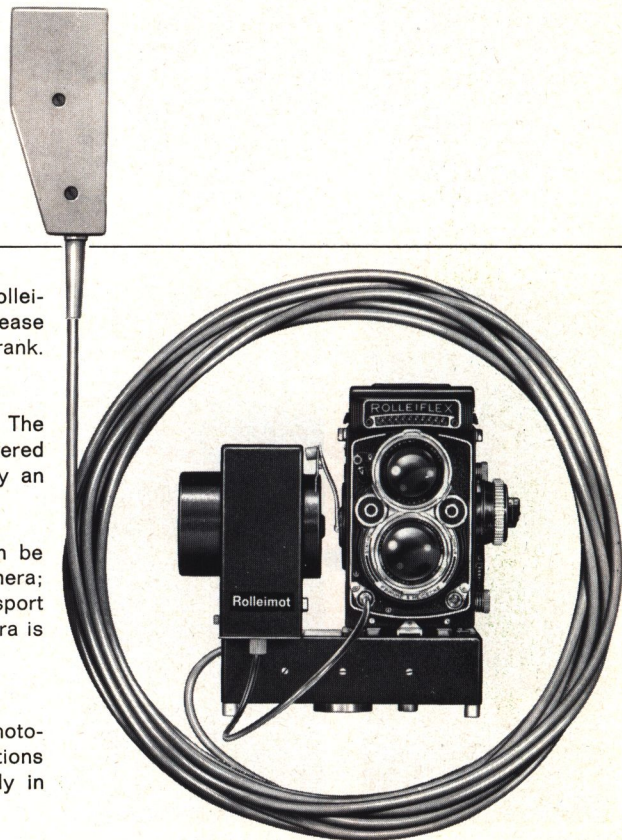
The Remote Release

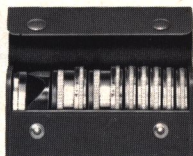
The Rolleimot is an electric remote release for the 2 1/4 x 2 1/4" (6 x 6 cm.) Rollei-flex and the Rollei-magic models. It is a transport and release system to release the shutter from greater distances and to tension it again via the transport crank. It is suitable for single shots as well as picture series.

The tripod bush connects the Rollei and the Rolleimot to a single rigid unit. The release and the transport crank are coupled with the Rolleimot. The motor is powered by a 6-volt D. C. supply, provided either by four built-in 1.5 volt cells or by an accumulator.

You operate your Rollei with a hand switch at the end of a lead which can be extended up to 650 feet (200 metres). On pressing the button you release the camera; on letting go, the camera gets ready for the next shot. During the film transport a red warning light lights up on the switch. As soon as this goes out, the camera is ready for the next exposure. The lamp also indicates the end of the film.

This remote release is particularly valuable in all cases where you want to photograph from some distance but remain unnoticed in the background. Applications include unobtrusive feature photography, technical recording shots, especially in inaccessible or dangerous spots, and wild life pictures out of doors.





Cases and Containers

Eveready Case

in elegant brown leather, available for all model Rollei cameras, cases for the recent 2 1/4 x 2 1/4" Rolleis feature detachable front. Special versions for the Rolleiflex 4 x 4: full opening gray leather case and soft leather case with wrist loop.

Replacement Front for the Eveready Case

If you are using the Rollei Penta Prism on the Rolleicord, Rollei-magic and Rolleiflex T, 3.5, and 2.8, you do not have to get a second eveready case. You merely replace the removable front by a special version with a higher top.

Leather case

with lens hood, two Rolleinar sets (1 + 2) and five filters; also available empty.

Leather case

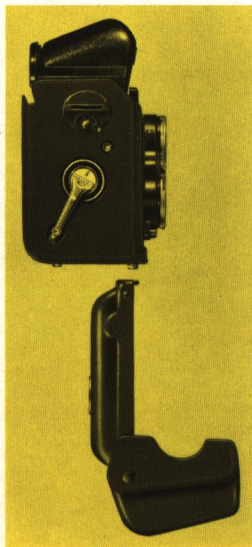
with lens hood and two filters; also available empty.

Metal Eveready Case

A completely closed aluminium container, airtight and waterproof, as a protection against climatic influences (high altitudes, tropics, water sports, expeditions). Lift-out camera holding bracket with Rolleiflex-type quick fastening clamp. Available in two sizes, for Rollei 2 1/4 x 2 1/4" (Rolleicord, Rolleiflex T, 3.5 F, 2.8 F) and for Rolleiflex 4 x 4. With desiccant cartridge (also available individually) to absorb moisture and humidity.

Other Accessories

Shoulder rubber pad for the neck strap—brown for the 2 1/4 x 2 1/4" models, gray for the Rolleiflex 4 x 4. Spare neck straps in various versions for the different Rollei models. Spare lens cap, in plastic or chromium-plated metal: available for the appropriate bayonet mount sizes. Protective cover for the exposure meter: available in leather for fixing to the eveready case, or in plastic with loops for the neck strap.



The Underwater Housing

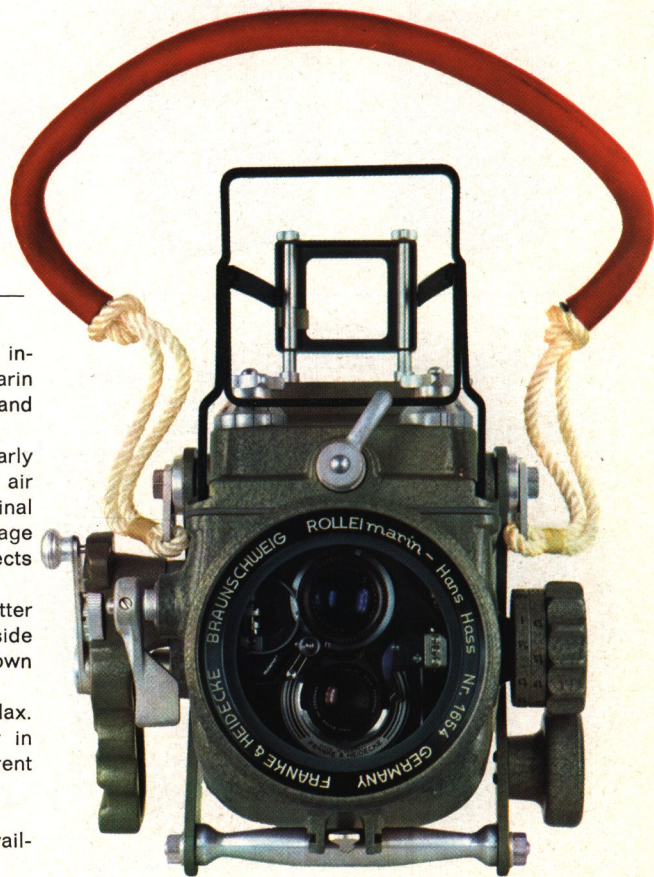
Underwater photography is becoming increasingly important for scientific and industrial purposes and highly popular as a sport. For this purpose the Rolleimarin has been designed for the standard Rolleiflex model. It is a pressure-proof and noncorroding housing for diving depths down to about 55 fathoms (100 metres).

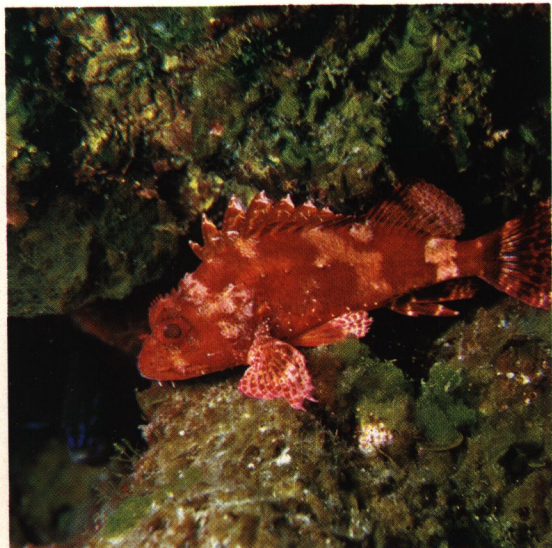
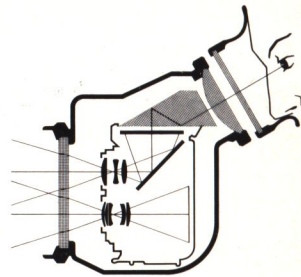
Through its system of direct focusing on a screen, the Rolleiflex is particularly suitable for underwater photography. The difference in the refractive index of air and water in this case has no effect on precision focusing: you check the final result on the finder screen. This reliability of sharp focusing is a particular advantage at the low lighting levels under water and with the predominantly near subjects arising under these conditions.

The finder image is easily observed while swimming along. The aperture and shutter speed settings are constantly visible for checking and can be adjusted from outside just as easily as all the other operations, including the film transport with its own film counter.

The frame finder is adjustable for the subject distance to compensate for parallax. The focusing knob carries two distance scales (calibrated either in feet or in metres) for distances above water and under water, taking into account the different refraction.

With the Rolleimarin outfits you can place filters in front of the lens. Filters available for this purpose are light yellow, medium yellow and orange.





G. Lauckner

With the Rolleimarin 4 for the Rolleiflex 3.5 F even close-up shots are possible. A hinged mount in front of the lenses takes a special version of a Rolleinar set. This permits switching over the camera for close-ups or for normal shots at will. The two Rolleinar sets with parallax compensation cover focusing ranges from about 4 feet to 2 feet or 1.25 to 0.6 metres (set 1), and from 2 feet to 16 inches or 0.6 to 0.4 metres (set 2), measured from the front plate of the Rolleimarin.

For flash shots a special flashgun is available with battery capacitor circuit. The lamp fitting takes E.S.-capped screw bulbs, but can be adapted to S.C.C.-capped and capless bulbs by suitable inserts. To permit full illumination of the field of view even in the close-up ranges of the Rolleimarin 4, the flashgun has a tilting lamp holder which engages in three positions. A second lamp holder can be attached, at the other side of the underwater housing. This double lighting system provides shadowless illumination of the subject, and also permits shorter exposures.

The underwater housing is available in the following versions to fit the different camera models:

Rolleimarin 1 for Rolleiflex 3.5 (Tessar, Xenar) serial Nos. from 567 000 to 1 099 999 (requires conversion of the camera to the frame finder type focusing hood) and to 1 427 999. — Rolleimarin 2 for Rolleiflex 3.5 (Tessar, Xenar) serial Nos. from 1 428 000 to 1 739 999. — Rolleimarin 3 for Rolleiflex 3.5 (Planar, Xenotar) serial Nos. from 1 740 000 to 1 869 999. — Rolleimarin 4 for Rolleiflex 3.5 (Planar, Xenotar) serial Nos. from 2 250 000.

The Micro Attachment

This is special accessory to meet the requirements of the microscopist with a Rollei—and is universally adaptable for the whole field of photomicrography. With it, the range of the Rollei extends beyond the limit of macro photography (with the Rolleinar supplementary lenses) and thus becomes still more valuable for scientists, research workers and students.

The outfit consists of two parts:

the Rollei Micro Tube with clamping ring to fit on to the microscope,
the Rollei Micro Prism with focusing eyepiece for direct observation of the subject. Even with the micro tube—used for alternate viewing and exposure in front of the viewing and taking lens respectively of the camera—pictures of inanimate specimens are possible after previous focusing. When the micro tube is combined with the micro prism, the field of view and sharpness can also be checked during the exposure in the focusing eyepiece. The Rollei can then cover all aspects of photomicrography. The micro tube is available with a bayonet ring in four different sizes according to the lens diameter of the camera:

I (4 x 4): for the Rolleiflex 4 x 4

II (6 x 6): for 2 1/4 x 2 1/4" (6 x 6 cm.) Rollei models with Tessar, Xenar or Triotar lenses

III : for Rolleiflex models with Planar or Xenotar f/3.5 lenses

IV : for Rolleiflex models with Planar or Xenotar f/2.8 lenses.

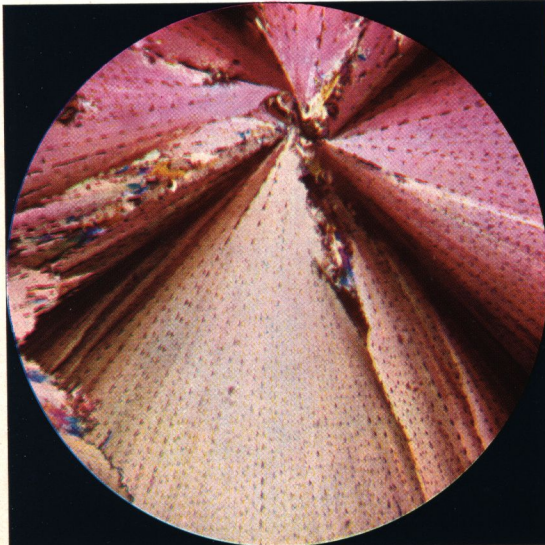
Additional bayonet rings are available separately, and thus permit one and the same micro outfit to be used with different Rollei models.





The illustration shows crystals of coumarin.

Technical data:
achromatic 25 mm.
microscope lens,
without condenser.



The special advantages of the Rollei for photomicrography include the optimum utilisation (with the choice of an appropriate microscope eyepiece) of the circular microscope image in the $2\frac{1}{4} \times 2\frac{1}{4}$ " (6 x 6 cm.) or $1\frac{5}{8} \times 1\frac{5}{8}$ " (4 x 4 cm.) Rollei frame. The images are pin-sharp with maximum detail reproduction, which permits unlimited photographic enlargement—a point of particular importance in color photography.

To obtain the full microscope magnification (relative to the standard viewing distance of 10" or 25 cm.) the Rollei negatives must be enlarged. According to the focal length used, the required enlargement for this purpose is as follows:

Image Size	$2\frac{1}{4} \times 2\frac{1}{4}$ " (6 x 6 cm.)		$1\frac{5}{8} \times 1\frac{5}{8}$ " (4 x 4 cm.)
	80 mm.	75 mm.	60 mm.
Required Enlargement (Diameters)	3.1 x	3.3 x	4.2 x

Example: with a 100 x microscope magnification and a $2\frac{1}{4} \times 2\frac{1}{4}$ " negative taken with the 75 mm. lens, the magnification obtained in the negative is $100/3.3 = 30 \times$ natural size. A 3.3-diameter enlargement again yields a print with the original 100 x magnification.

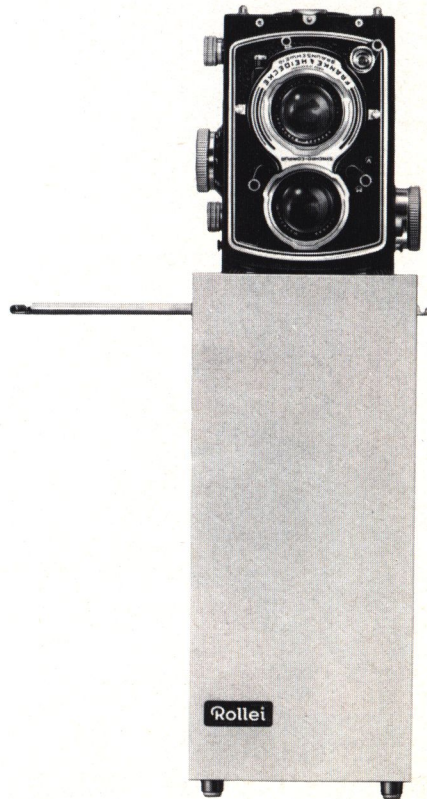
The Projection Attachment

The Rollei Projection Attachment forms an amazing combination with the camera: the Rollei becomes its own projector, using the finder lens and the normal focusing system. The result is a really handy and ingenious miniature projector of special application.

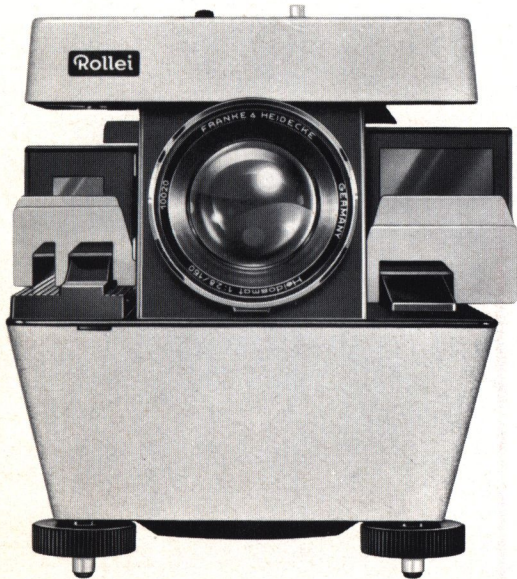
It is ready for projection with the minimum of trouble, set up almost instantly on the table some 28" in front of the special projection screen. You show and see your slides at convenient close range and about 18 x 18" square, as in a super-viewer. At this short distance images of that size gain exceptional depth. You can go still further: with a Projection Rolleinar -0.75 in front of the lens the unit enlarges 2 1/4 x 2 1/4" transparencies up to 40 x 40". The 4 x 4 cm. slide changer takes transparencies from 24 x 36 mm. to 1 5/8 x 1 5/8" (4 x 4 cm.).

The light source is a 6-volt, 35-watt motor car lamp. The unit runs on the A.C. mains supply and permits adjustment for five voltage ranges.

The Rollei Projection Screen is equally portable. It can be set up on a table or hung on the wall and incorporates a spring roller system. The plastic-coated 18 x 18" screen yields brilliant pictures even at wide viewing angles.



The Universal Projector



The Rollei Projector is both a miniature and a large-size projector—for transparencies up to $1\frac{5}{8} \times 1\frac{5}{8}$ " and $2\frac{1}{4} \times 2\frac{1}{4}$ ". It is the modern universal instrument for any camera, any slide format, and any slide frame. This automatic projector in fact ends all size problems. Whether you use one camera or several, the Rollei projector suits them all. When you want to show other people's slides—you need no second projector for different slide sizes. If one day you change your camera size—you keep your Rollei Projector. You start with the right projector—the projector you will always treasure.

And it is so easy to use: you can control it with the press-buttons on the projector, with the remote control cable, or fully automatically via a tape recorder.

The Rollei Projector is an impressive instrument.

And it becomes really versatile with the Vario-Heidosmat, the projection zoom lens of continuously variable focal length.

A special leaflet describes the Rollei Projector in detail together with its special projection lenses.

Your photo dealer will tell you
the prices of *The Practical Accessories*.
When ordering accessories
please state name and serial No.
of camera and lens.

Consult your photo dealer.
He will be happy to advise you—
without obligation.

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