If you find this manual useful, how about a donation of $3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your E-mail address too so I can thank you. Most other places would charge you $7.50 for a electronic copy or $18.00 for a hard to read Xerox copy. These donations allow me to continue to buy new manuals and maintain these pages. It'll make you feel better, won't it?

If you use Pay Pal, use the link below. Use the above address for a check, M.O. or cash. Use the E-mail of butkusmi@ptd.net for PayPal.

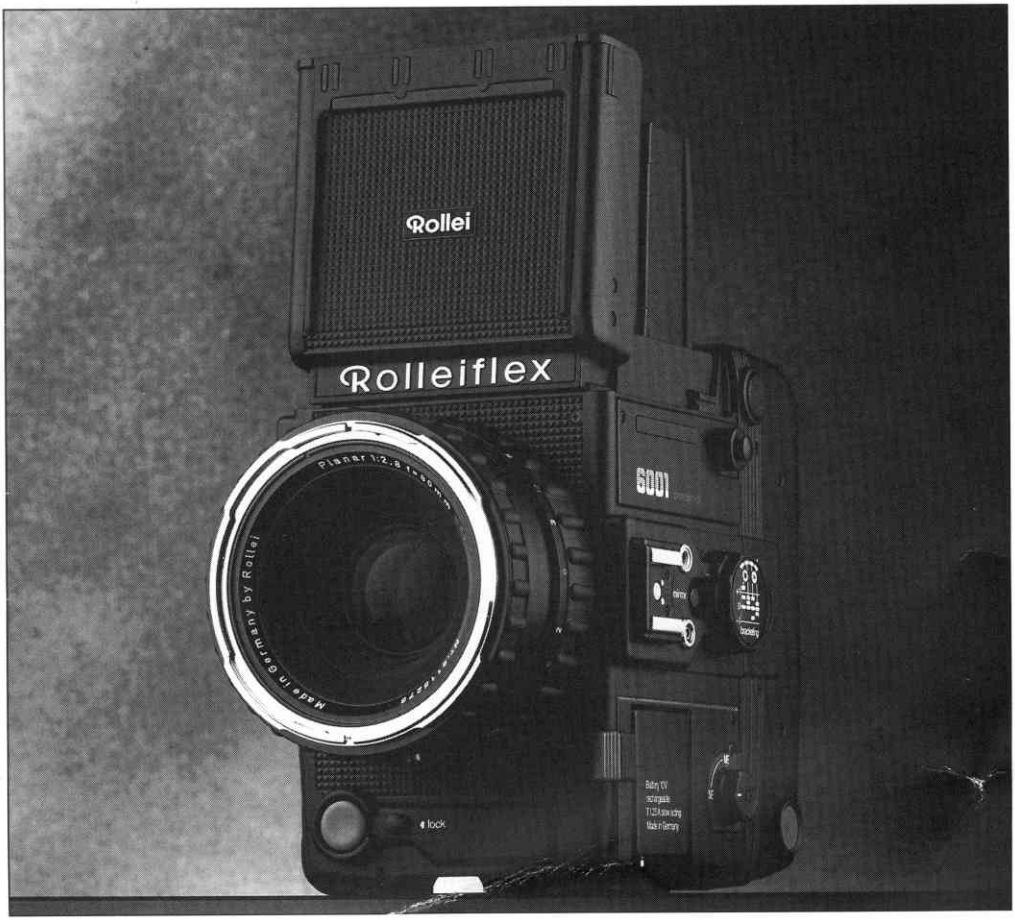
back to my “Orphancameras” manuals /flash and light meter site

Only one “donation” needed per manual, not per multiple section of a manual !
The large manuals are split only for easy download size.

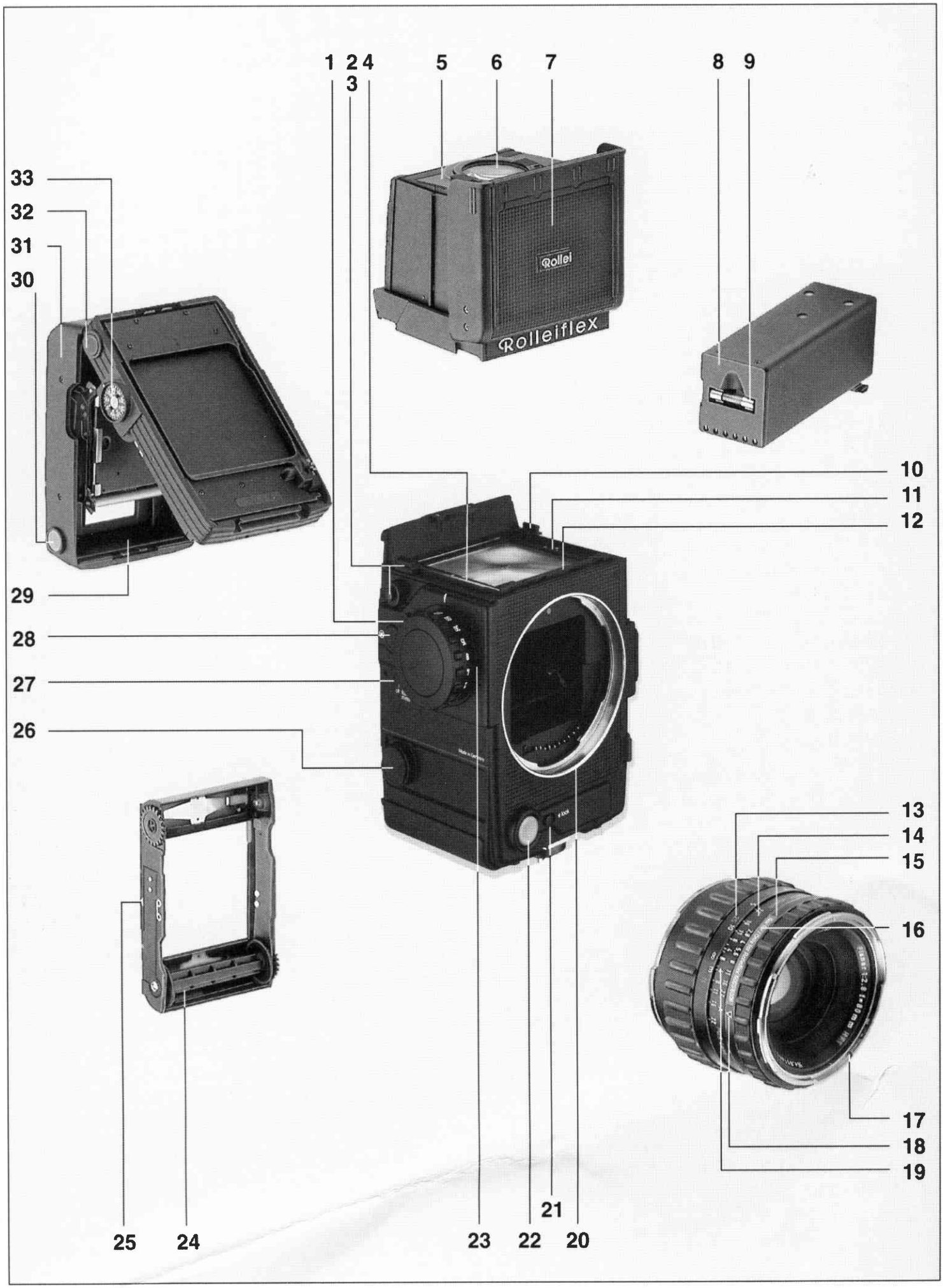
Rollei

Rolleiflex 6001 professional

User's Manual



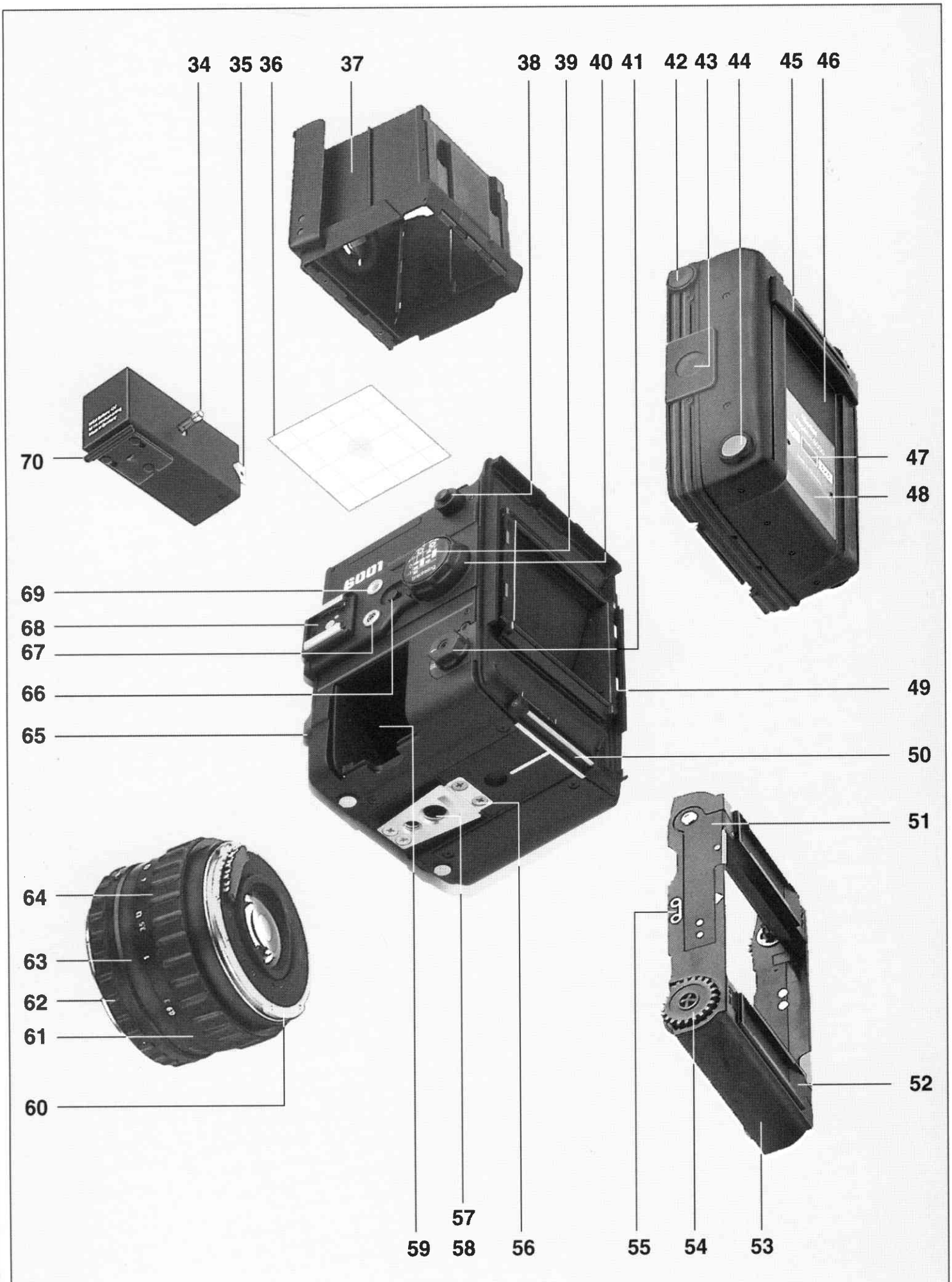
Contents


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
Rollei
Rolleiflex

Components and Controls

1 Master switch
2 Right-hand finder-hood release
3 Right-hand strap lug
4 Right-hand screen-frame release
5 Magnifier panel
6 Magnifier
7 Folding finder-hood cover
8 Nicad battery
9 Fuse
10 Left-hand finder-hood release
11 Left-hand screen-frame release
12 Finder LED display
13 Distance scale
14 Aperture scale
15 Aperture pointer
16 Pointer window
17 Double filter bayonet
18 Aperture index
19 Distance index and depth-of-field scale
20 Bayonet lens mount
21 Shutter-release lock
22 Shutter release
23 Shutter-speed dial
24 Take-up spool
25 Index for alignment with backing-paper arrow
26 Universal remote-control socket with screw thread
27 Selftimer and custom-function switch
28 Stop-down button
29 Spool chamber and symbol for empty take-up spool
30 Right-hand magazine-back release
31 Magazine back
32 Right-hand magazine release
33 Film-speed dial

34 Spare fuse
35 Fuse retaining slide
36 Interchangeable focusing screen
37 Detachable folding hood
38 Left-hand strap lug
40 Metering-mode selector, custom-function RESET
41 Multi-exposure knob
42 Left-hand magazine release
43 Sticker recess
44 Left-hand magazine-back release
45 Drawslide bar
46 Interchangeable film magazine
47 Frame-counter window
48 Memo holder
49 Film gate, detachable for use of special accessories
50 Magazine hinge
51 Lock spring for film-spool spindle
52 Memo holder
53 Film insert
54 Film-advance gear
55 Film-path marking
56 Tripod quick-release plate
57 3/8in. tripod socket
58 1/4in. tripod socket
59 Battery compartment
60 Lens bayonet
61 Interchangeable lens
62 Aperture ring (for shutter-priority AE and manual)
63 Aperture-ring lock (for shutter-priority AE)
64 Focusing ring
65 Lens release
66 Mirror lockup
67 X-sync PC socket
68 Hot shoe with dedicated flash contacts
69 Cable-release socket
70 Battery grip



Rolleiflex 6001 "professional"

About this Manual

To make the most of the potential of this camera, you need a certain level of photographic expertise and basic technical knowledge. We assume that a Rolleiflex 6001 owner will have that basic knowledge; it is the purpose of this instruction manual to provide specific information on camera handling.

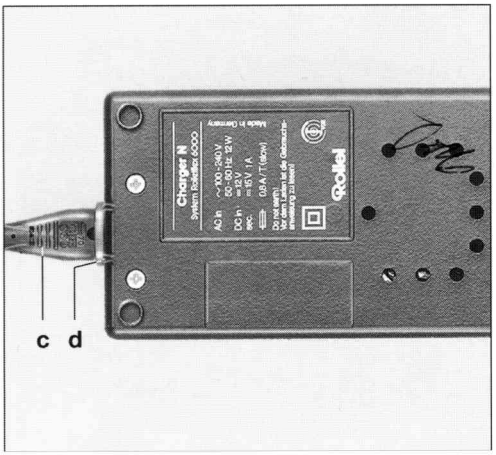
After a presentation of components and controls, a brief summary of the main handling points is added for the hurried reader. This is followed by a detailed description, with suitable illustrations, of the main camera features and a step-by-step explanation of relevant operations, from assembling the camera modules right up to removing the exposed film.

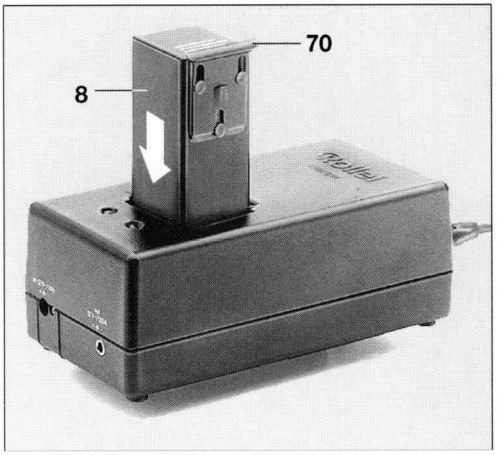
Next in line are a number of practical hints and background information as well as notes on the main accessories.

A table summarizes the main data of the interchangeable lenses.

A trouble-shooting guide helps to trace possible problems and handling errors – to which even the seasoned pro is not immune in the excitement of the action – and indicates remedies.

The numbering of the controls and components is consistent throughout the text and illustrations. It is based on the two fold-out picture plates at the front and back. Keep them folded out for easy reference while reading this manual.





In a nutshell

Read this telegraphic summary for a quick grasp of the major camera controls and operations. To get to know the camera in depth, go to page 10 and read on from there.

Note for owners of a Rolleiflex 6002 or SLX: Except for the camera backs, all interchangeable modules may be used on the Rolleiflex 6001 "integral". Do not, however, try to use the interchangeable 6001 "professional" magazines on a Rolleiflex 6002 or SLX, since the motorized drive system of these models is not designed for operation with interchangeable magazines. Moreover, the film track does not in that case keep the film perfectly flat.

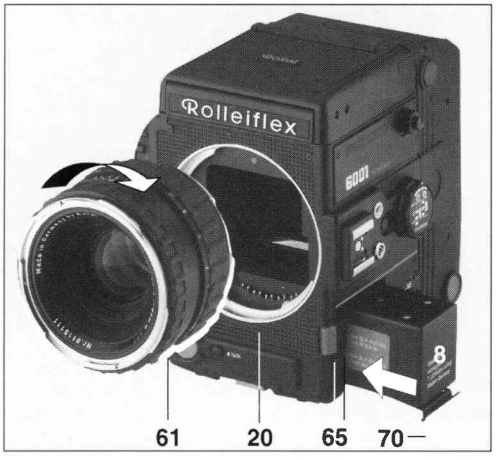
Note for owners of a Rolleiflex 6008 SRC 1000: All interchangeable modules fully compatible with the 6001 "professional".

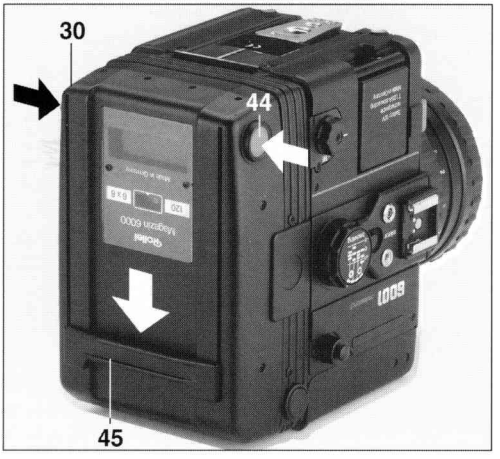
The following accessories are not compatible with the Rolleiflex 6001 Professional:
- **FM1**
- **ME1**
- **MasterControl**
- **SRC/MRC 120**
- **4.5x6 magazine (non-rotatable)**
- **Timer**
- **70mm magazine.**

Charge nicad battery
Connect power cable "c" to power socket "d" of charger and to AC outlet. The green LED indicates readiness.

All common AC voltages from 100 to 240 V may be used. Push up battery grip 70, remove battery 8 from camera and insert it in charger in position shown. Charging time: min. 10 minutes, normally 1 hour.

All rechargeable nicad batteries are subject to gradual discharge even without use. To keep the camera always ready for action, be sure to recharge the battery at intervals of about 2 - 3 months even if it is not used.





Mount lens
Press red lens release 65 and remove body cap. Align red mark on lens 61 with red dot on bayonet lens mount 20, insert it all the way and turn it fully clockwise.

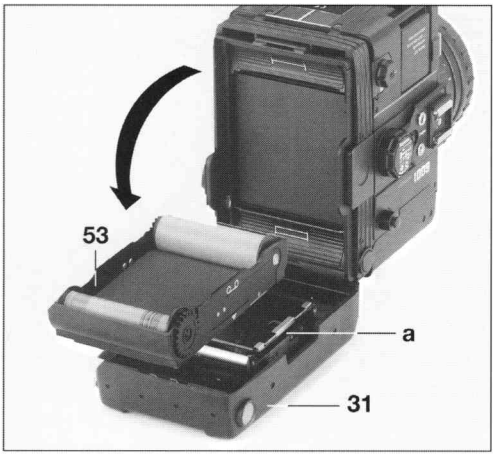
Insert nicad battery
Hold charged battery 8 with grip 70 facing down and insert it fully into camera to engage grip.

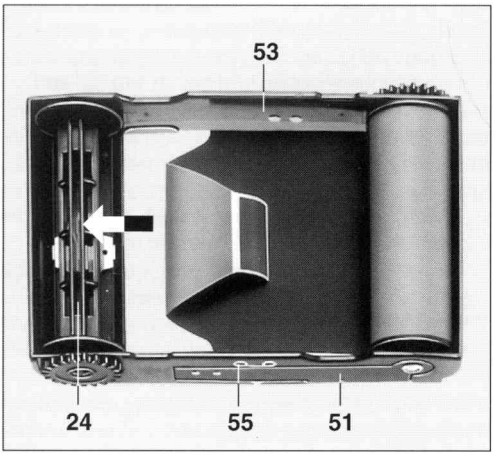
Load film
Push grip of magazine drawslide bar 45 fully to "magazine change" position (arrow). Hold camera upside down as shown. Press release buttons 30 and 44, open magazine back 31 and remove film insert 53 → page 7, top left. Pull red tab of spring 51 outwards to insert film spool, oriented as marked by symbol 55. Run paper leader straight to empty spool 29, attach and wind up till arrow heads (!) line up with white index 30 → page 7, center and bottom. Insert film-box tab in memo holder 51 (behind full spool). Drop film insert into back. Full spool must face ⊨, empty spool ⊢ symbol.

Note: Backing paper must lie *above* pressure-plate springs "a"; threading below these springs will follow automatically later. Firmly close magazine back.

Fully push down magazine drawslide bar and set ISO film speed on magazine dial 33. Turn master switch 1 to "S" and press shutter release: Film is now advanced to first frame, and frame counter 47 reads "1". If this fails to appear, press release once more.

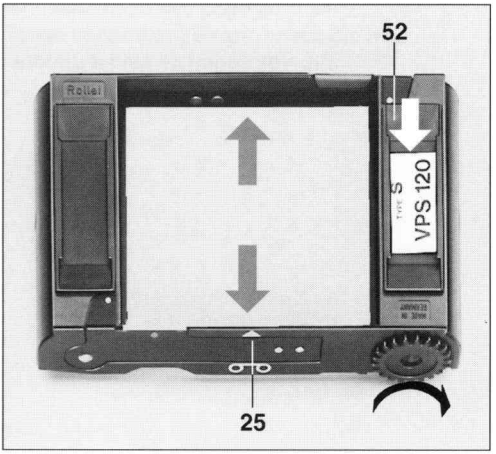
To load magazines off the camera, → page 19 "Changing magazines".

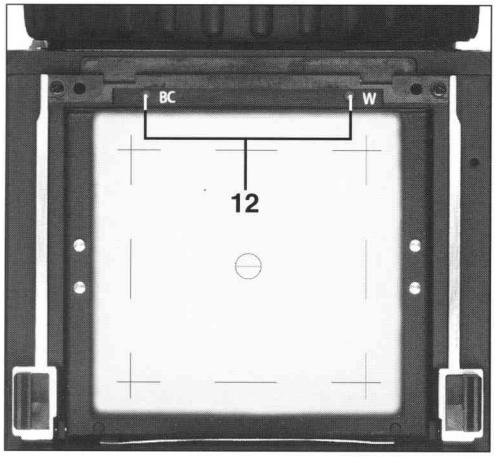




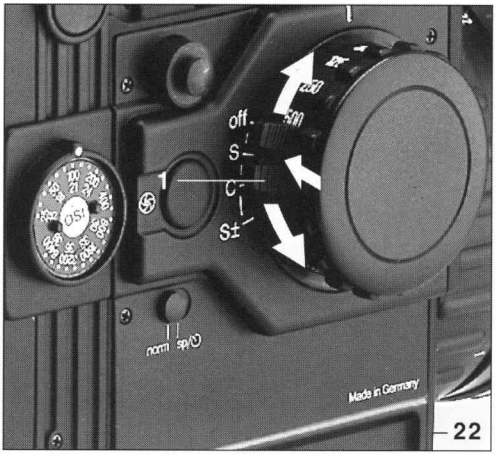
Focus
Open finder hood 7, swing up magnifier panel 5 with magnifier 6 and focus by turning focusing ring 64.

Select aperture and shutter speed
Use aperture ring and shutter-speed dial to set the desired aperture and shutter speed.





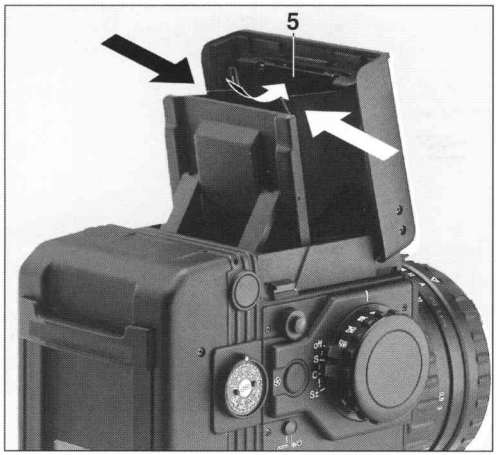
Note finder display
The BC LED 12, left, in the viewfinder warns against excessive battery discharge. The W LED 12, right, alerts you to an operating error that prevents camera operation.



Take picture
For single frames, press master switch 1 and turn to engage at "S". Briefly press shutter release 22. For continuous shooting turn switch 1 to "C" and keep shutter release depressed for desired number of frames. Switch 1 at "off" locks the two shutter buttons. Release 22 has an additional mechanical lock.

Alternatively, a cable release may be screwed into socket 69 or an optional electric remote release connected to socket 26.

Watch frame counter
Window 47 shows number of exposures made. "S" indicates no film loaded or film not threaded; red arrow = film not advanced to first frame; all-red window = paper trailer or film spooled up.

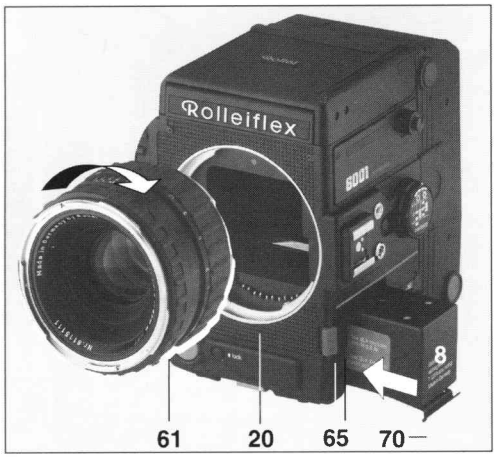


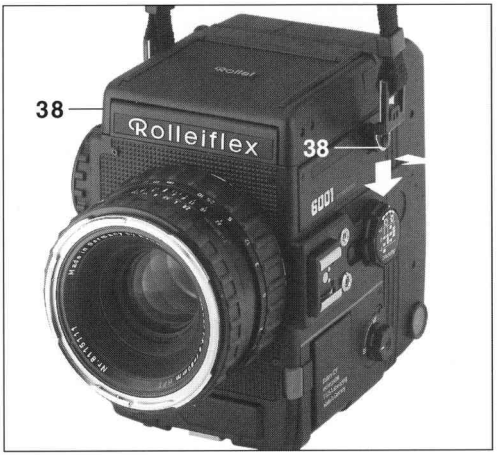
Close focusing hood
Fold down magnifier panel 5. Push in both side panels and let go; hood closes on its own.

Unload film
Film end winds up automatically after last exposure. Then open magazine back and lift out film insert. Remove and seal full film spool. Replace film insert and close magazine back.

Note: Before opening the magazine back 31, always push drawslide bar 45 all the way to "magazine change/remove insert" (arrows), or the drawslide may be damaged.

The following pages describe the different camera functions and operating steps in full detail.
For useful hints see page 24 et seq.
In case of handling errors, check the troubleshooting tables on pages 36 – 39.





Camera operation

We will now look at the operating sequence from assembling[1]) the camera to unloading the exposed film. This applies to the basic camera outfit and to single exposures. Where necessary, more detailed explanations follow the description of the handling steps.

Rolleiflex 6006 owners please note:
With the exception of the bellows attachment, extension tubes, teleconverter, reversing adapter and magnifying finder hood, all interchangeable components are equally usable on the Rolleiflex. If necessary, these accessories can be modified at the factory. This also applies to the same Rolleiflex 6002 and SLX accessories.
Rolleiflex 6002 and SLX owners please note:
Do not try to use 6008 Integral or 6001 magazines on a Rolleiflex 6002 or SLX, since the motorized drive system of these models is not designed for operation with interchangeable magazines. Also, the film track does not in that case keep the film perfectly flat.
The following accessories are not compatible with the Rolleiflex 6001 Professional:

- **FM1**
- **ME1**
- **MasterControl**
- **SRC/MRC 120**
- **4.5x6 magazine (non-rotatable)**
- **Timer**
- **70mm magazine.**

Preparing the camera for use
To mount the lens, remove front and rear caps. Press release 65 and remove the body cap, turning it counterclockwise. Align the red index on lens 61 with the red dot inside the camera, insert the lens all the way into the bayonet mount 20 and turn clockwise to engage.

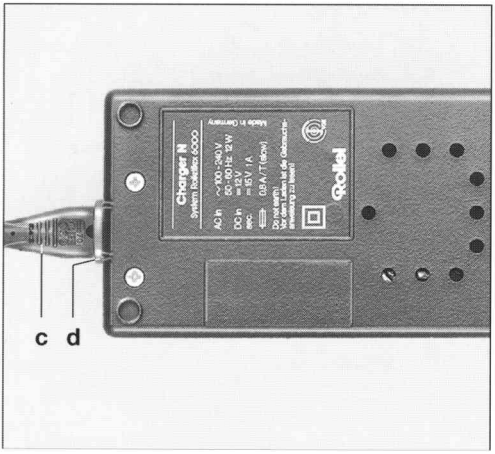
Inserting the battery
Push the nicad battery 8, with its grip 70 facing down, all the way into the battery compartment and push home the grip. See note on page 6!

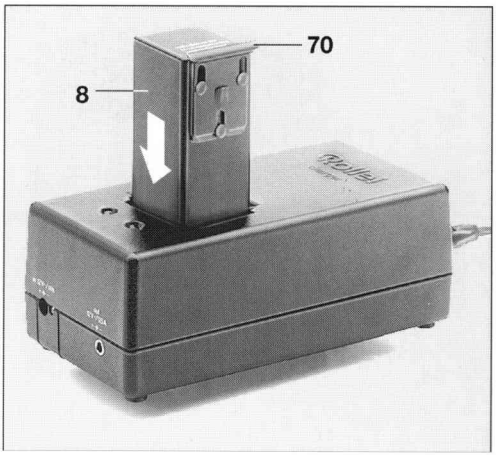
Fitting the neckstrap
Push the self-latching strap eyelets onto the lugs 3 and 38 and let them engage.

To release the strap, lift the latching bar and unhook the eyelets.

The strap can rotate freely around the lugs, making it easy to carry the camera in any position. (See also important notes on page 6.)

[1]) The basic camera outfit is supplied in special packing that securely holds all components. It is advisable to keep this packing in case you wish to ship the outfit again. Also note the serial numbers of the camera body and lenses. These will help you trace it and prove your ownership, should you ever lose any of these items.





Charging the nicad battery

Plug the power cable "c" into the receptacle "d" of the charger "b" and connect it to a wall outlet. The green LED confirms readiness. All common AC voltages and frequencies can be used:
100 V – 240 V AC, 50 Hz – 60 Hz.

Insert the battery into the charger so that its terminals are in contact with the charger pins. Rapid charging starts after approx. 2 seconds with 500 mA, and the red LED lights up. The red LED goes out when charging is completed.

The charging voltage and the battery temperature are monitored during charging. When the cut-off voltage has been reached, the unit switches to float charging. Once the battery temperature exceeds +45°C, the red LED goes out, and rapid charging stops until the temperature is once more in the admissible range. Rapid charging is terminated after a maximum of one hour. Float charging consists of 0.1-second pulses of 500 mA injected every 16 seconds, with the green LED flashing in addition to the red LED. Since the float charge only compensates for the self-discharge of the battery, the latter may remain in the charger for prolonged periods.

Ambient temperature range: approx. 5°C to 35°C. The total charging time depends on the charge condition of the battery. After normal discharge, about one hour or less is sufficient.

Hint 1: If rapid charging is to start again (!) after changeover to float charging, briefly lift the battery off the contact pins and replace it. –> The one-hour timer starts, and rapid charging begins.

Hint 2: If the battery is overheated, the red LED will not light up when the battery is in the charger. Rapid charging will start only after the battery has cooled down to below 45°C.

Charging from a car battery

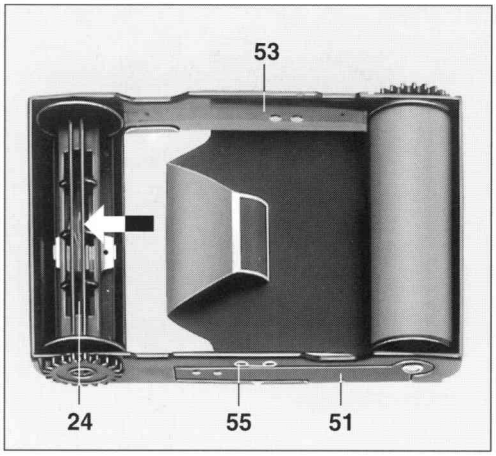
Use an optional accessory cable to connect the low-voltage socket of the charger to the lighter socket of the car. Normal charging from a 12V car battery takes around 14 hours. In this case, the red/green LEDs will not light up.

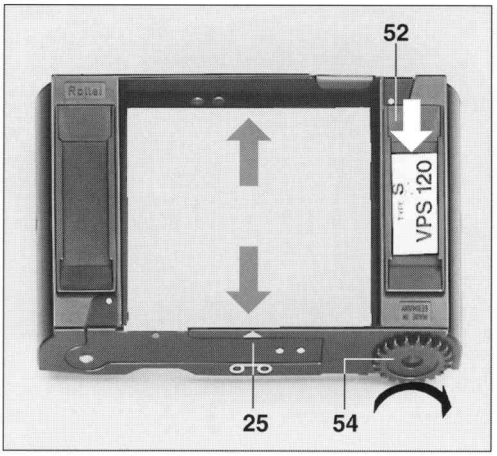
Connecting a video camera

A CCD video camera or other unit running on 12V DC/500 mA, such as a portable radio, may be connected to the 3.5mm jack socket. The green LED indicates readiness. The cable should not be longer than 2 m.

Safety

A T800mA fuse is permanently fitted to the charger. The outputs (battery pins, sockets) are protected against shorting by faulty batteries or metallic objects. The battery temperature is monitored and limited. The duration of rapid charging is likewise monitored and limited to one hour. The control unit complies with the pertinent safety regulations.





The unit is double-insulated.
Do not ground it nor insert any bare metallic objects into the battery compartment. Use the charger only in a dry environment.

To avoid excessive drain on the battery, always switch the camera off after use. Turn master switch 1 to "off".

All rechargeable nicad batteries are subject to gradual discharge even without use. To keep the camera always ready for action, be sure to recharge the battery at intervals of about 2 – 3 months even if it is not used.

Checking the battery
Whenever the camera is switched on, it automatically checks the condition of the battery.

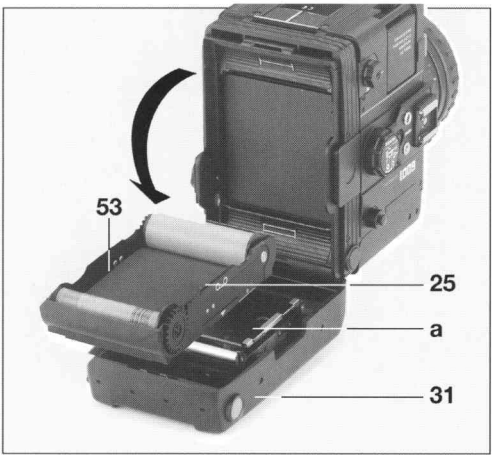
When the BC LED lights, the battery charge is sufficient for only a few more films. Recharge the battery, above all for low-temperature work. A fully charged spare battery is very useful for speedy work with your 6001 Professional.
To check the battery manually, set master switch to "S" and press stop-down button 28. The BC LED in the viewfinder will blink briefly and thereafter indicate the battery status as follows:
- BC off: Sufficient power
- BC on: Low residual charge
- BC on: Goes out when stop-down button is released; the camera cuts off when power is too low.

Loading the film insert
Push the drawslide bar 45 all the way to "magazine change/remove insert" (arrows). Press the magazine-back releases 30 and 44, open the back and remove the film insert 53. There are three recesses in the magazine back to facilitate gripping. If necessary, briefly press down on the empty spool with one finger to loosen the insert.

Pull outwards the red lock spring 51, insert the film spool as shown by the film-path marking 55 (black side of backing paper facing inwards) and let the spring engage the spool. Thread the backing paper straight into take-up spool 24 and wind up a turn or two, keeping it taut, with the advance gear 54, until the arrow on the backing paper lines up exactly with index 25. Insert the identifying tab from the film box into memo holder 52 (behind the full film spool) as a film-type reminder.

The camera comes complete with one film insert. For efficient operation during extended shooting sessions it makes sense to carry several film inserts, unless the even more practical interchangeable magazines are used. You can carry the inserts preloaded for quick film changing. The same film insert (but not the same magazine!) serves for both size 120 and 220 roll film.

Do not use Rolleiflex SLX film inserts (with index marks and symbols on the inside edges), as they might jam when unloading.



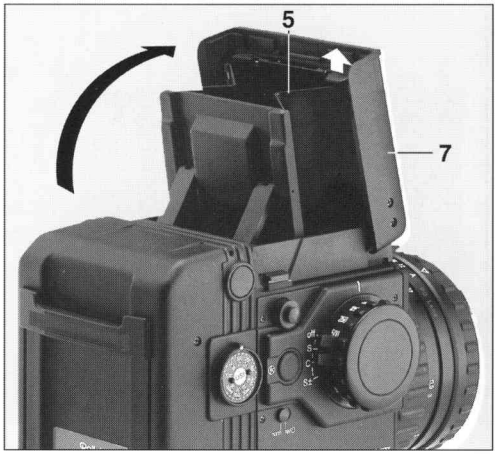
At freezing temperatures (below 0°C) it is better not to preload film inserts; rather load the film directly into the camera and advance to frame No. 1. The adhesive tape holding the film on the backing paper may become brittle in the cold and then cause film-advance problems.

Replacing the film insert

Open the magazine back as described before and drop in the film insert so that the full film spool faces the symbol ⊨ and the empty spool the symbol ⊢. Do *not* try to guide the film edges *underneath* the springs "a" along the pressure-plate edges, but rather let them lie on top. The autoloading system ensures correct film location and automatically threads the film underneath the springs "a".

Close the magazine back until it snaps into place and push the drawslide bar all the way down to disengage the shutter lock. Turn master switch 1 to "S" and briefly depress shutter release 22: The film is automatically advanced to the first frame, and "1" appears in frame-counter window 47. If "1" fails to appear (which may occasionally happen with some film brands), simply press the shutter release a second time.

To load the film insert with the magazine detached, see page 19, "Changing magazines".

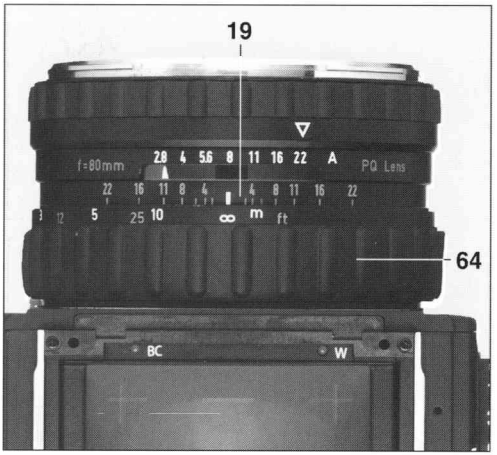


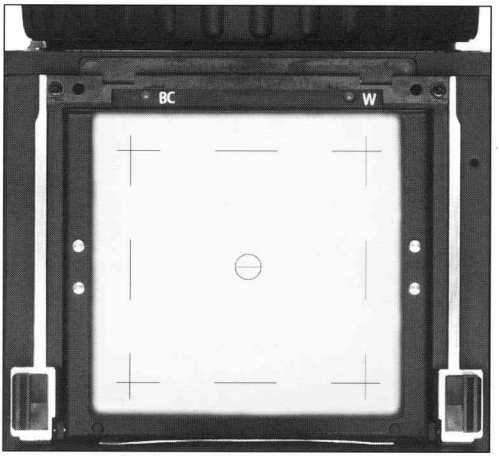
Opening the hood

Raise the folding hood cover 7 at the rear and swing up. To swing up the spring-loaded magnifier panel 5, push up its tab towards the edge of the cover.

Closing the hood

Fold down magnifier panel 5. Push in both side panels and let go; the hood closes on its own.





Focusing

Turn ring 64 to focus the image on the screen. The focusing distance can be read off in m or ft against the index 19. Depth of field can be checked against the aperture scales to each side of the distance index 19. For infrared photography read off the focused distance and set it against the red index on the depth-of-field scale. All lenses focus at full aperture.

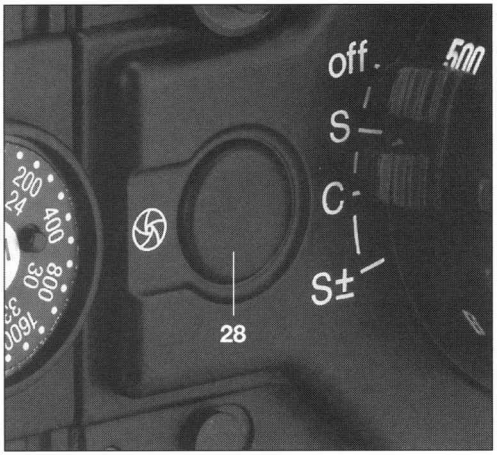
The standard finder screen (Rollei H-D-Screen) incorporates two focusing aids: a central split-image rangefinder and the Fresnel ground glass proper. The standard screen is ideal for many subjects. Four alternative screens are available as optional accessories for special applications.

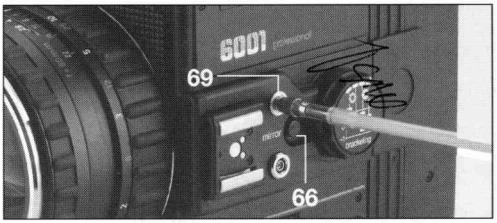
Viewing

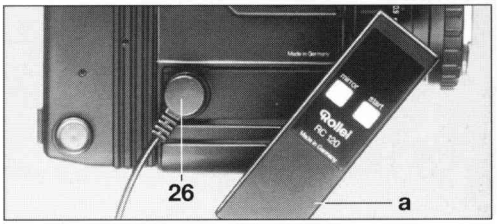
The grid of the standard screen aids in vertical and horizontal alignment of the camera, which helps to mark smaller finder fields for 4.5x6cm (1¾x2¼ in.) upright or horizontal formats or even 4x4cm. Special screens with 4.5x6cm frame markings (horizontal and vertical) as well as 4x4cm markings are available as optional accessories.

Interchangeable lenses widen or narrow the field of view (from a given viewpoint) and are available in focal lengths from 30 to 1000mm.

The line of accesories includes various interchangeable viewfinders as alternatives to the standard folding hood.







Viewfinder warnings

The W(arning) LED, right, in the viewfinder lights in the following cases:

1. It blinks briefly as the camera is switched on and then goes out.
2. It blinks slowly when the lens is set to "A" or the shutter-speed dial to $^1/_{1000}$ ($^1/_{500}$ with a PQ lens).
3. It blinks rapidly at the end of the roll.
4. It stays lit when the drawslide is closed or the shutter release, the stop-down button or the mirror-lock button pressed.
   The camera remains inoperative.

Releasing the shutter for exposure

On the camera: Press shutter release 22.

With a cable release: Screw a normal cable release into socket 69.

With optional remote release "a": Remove cap and connect release to socket 26. Press Start button.

Upon depression of the release, the camera exposes the film and advances it to the next frame.

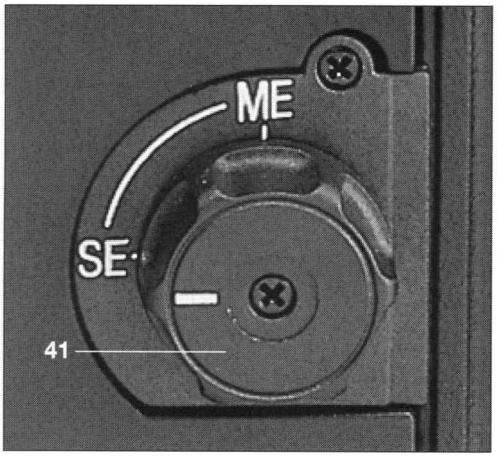
Mirror lockup

To suppress every vestige of camera vibration – especially with long telephotos or in close-up photography – briefly depress "mirror" button 66; the mirror flips up. Then press the shutter release for exposure.

Also refer to page 26 "Quick Release".

Note: Before locking up the mirror, make sure the battery has a sufficient charge level, for the camera draws current while the mirror is up.

After the mirror has been locked up, neither the aperture nor the shutter speed can be varied.



Multiple exposures
Turn multi-exposure knob 41 to "ME" (multiple exposures). This disengages the film advance so that several exposures can now be superimposed on one frame. A red rim below knob 41 also indicates that the film advance has been disengaged.

Before the last exposure of a multi-exposure sequence turn the knob back to "SE" (single exposure) and push it against the camera body to reengage the film advance for normal operation after the end of the sequence.

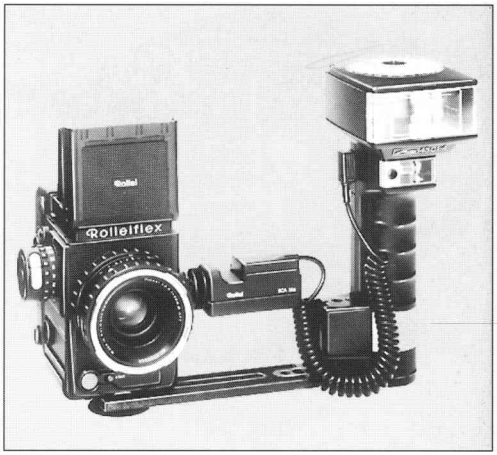
Note: Do not change magazines during a multi-exposure sequence.

Automatic bracketing
This mode may be used as an exposure safeguard in difficult lighting or subject conditions. Knob 46 serves to select the bracketing interval and type. The following settings are possible:

Aperture bracketing:	0; +1/3 EV; +2/3 EV
	0; +2/3 EV; +4/3 EV
Shutter-speed bracketing:	0; -1/3 EV; +1/3 EV
	0; -2/3 EV; +2/3 EV

Caution: For bracketing, the aperture ring must always be set to "manual aperture".

To activate the bracketing mode, set the master switch to ±. Then keep the shutter release depressed until the camera has completed the three exposures.



Note: Before starting the bracketing series, make sure that the shutter-speed or aperture range will accommodate the programmed over/underexposure.

Frame counter

The frame-counter window 47 shows the number of the next frame to be exposed. It resets to "S" (start) when the magazine back is opened.
Other frame-counter readings: "S" = no film loaded or film not threaded; red arrow = film not advanced to first frame; all-red window = paper trailer or film spooled up.

Unloading the film

After the last exposure, wait for the camera to wind up the end of the backing paper. The end of the process is indicated by flushing of the "W" LED. Then open the magazine back and remove the film from the insert. Replace the film insert - reloaded, if required - and close the magazine back.
Note: Before opening the magazine back 31, push drawslide bar 45 all the way to "magazine change" (arrows), or the drawslide may be damaged.

Actuation of the drawslide bar 45 stops the rapid blinking of the W LED.

Flash photography

The Rolleiflex 6001 professional is X-synchronized for flash at all shutter speeds up to $^1/_{500}$ s (up to $^1/_{1000}$ s with PQS lenses).

Flash units can be attached to the hot shoe 68 or connected to the standard (parallel-connected) 3 mm PC socket 67. The camera offers the following flash modes:

1 Manual flash (with the aperture set as a function of subject distance).
2 Dedicated autoflash (TTL flash metering and control) with an SCA-356 Rollei flash adapter and a dedicated flash unit, for instance from Metz.
3 TTL flash metering with any flash unit (studio flash, manual flash) by switch 27. To meter studio flash, check proper flash output with the aid of the W LED (overexposure) or the BC LED (underexposure). Make a blank exposure on film or use one of the metering backs 97700 or 97698 for the purpose.

1 Manual flash mode

Connect the flash unit to the hot shoe or PC socket. Manually set the aperture on the lens to suit the flash unit used:

Sensor flashes control the light output for an aperture preset on the flash and the camera by external metering. If a simpler flash unit is used, the aperture to be set on the camera will have to be determined as a function of subject distance, usually with the aid of scales on the flash. For details, see the operating instructions of your flash unit.

2 Flash photography with Rollei SCA-356 dedicated flash adapter

With dedicated flash units linked through a Rollei SCA-356 adapter, the camera switches to TTL flash control. In this case, a sensor inside the camera meters the light reflected off the film during exposure and controls flash duration as a function of film speed. This guarantees optimum flash exposure over a range of ISO 25/15° to 400/27°.

Proper ISO setting on the magazine and the selection of a suitable aperture are prerequisites for correct flash exposure. (Any aperture within the range of the dedicated flash unit may be used.) In conjunction with a 6001 "professional", the SCA adapter should always be set to ISO 100/21°.

Proper flash exposure and flash readiness are displayed on the flash unit.

3 TTL flash metering

Set master switch 1 to "S" and switch 27 to TTL flash metering. For OTF metering, set multi-exposure knob 41 to "ME".

When the shutter release is pressed and held, the deviation of the flash exposure is indicated as follows:

≥ ±2 EV	rapid blinking
≥ ±1 EV	slow blinking
= ± ⅔ EV	lit constantly
= ± ⅓ EV	both LEDs lit.

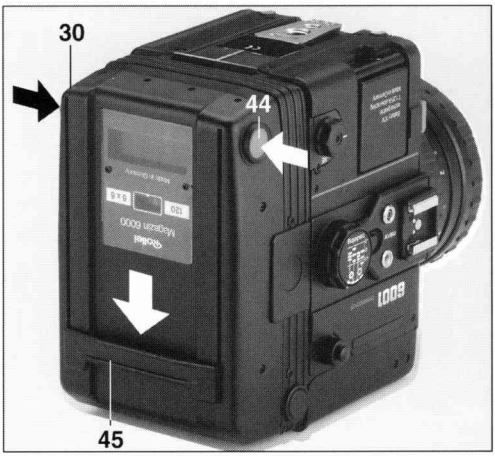
Before last reading return knob 41 to "SE".

To find the proper aperture, always set the latter in the opposite direction of the LED display. If, for example, the W LED (underexposure) lights on the right, the aperture should be shifted to the left for the next reading (larger aperture).

Caution: When using a metering back, the reading refers to ISO 100/21°.

4. Flash bracketing

When the bracketing mode is combined with TTL flash metering, the camera will fire at intervals of approx. 1.5 second to allow the flash to recycle.



Interchangeable modules

The lens, viewfinder, battery, film magazine and film insert are easily detachable from the camera body. While the battery will be changed for recharging and the film insert for reloading, the additional modules offer valuable alternatives for viewing, controlling and recording the image.

Changing the film insert of the 6x6 film magazine

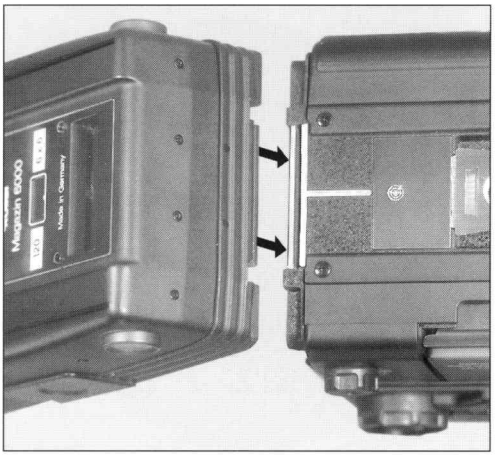
Push drawslide bar 45 fully to "magazine change" (arrows). Open the magazine backby pressing buttons 30 and 44, take out the insert with the exposed and spooled-up film and remove the latter for processing. Drop in a loaded film insert, close the magazine back and press the shutter release to advance the film to the first frame.

If you have only one film insert, reload this with a new film. Note that there is no need to switch spools: The insert is symmetrical and engages the transport gear either way round.

If the new film differs in speed or type, also change the film-box tab in the memo holder and reset the film speed on dial 33.

Changing magazines

Push drawslide bar 45 fully to the top of "magazine change" in the direction of the arrow. Depress both magazine releases 32 and 42. Swing away the magazine and lift it out of its hinges. Hook the alternative magazine into the hinge, then swing up and press home to engage. Fully push down drawslide bar 45. This opens the drawslide and secures the



magazine on the camera, at the same time unlocking the metering and exposure functions.

There are four different interchangeable magazines for the following film types and negative sizes:
6x6/120 magazine for size 120 film = 12 exposures 6x6cm (2 ¼ x 2 ¼ in.)

Type 4560 magazine, attachable for vertical or horizontal format
4.5x6/120 for size 120 film = 16 exposures 4.5x6cm (1 ¾ x 2 ¼ in.)
4.5x6/220 for size 220 film = 32 exposures 4.5x6cm (1 ¾ x 2 ¼ in.)

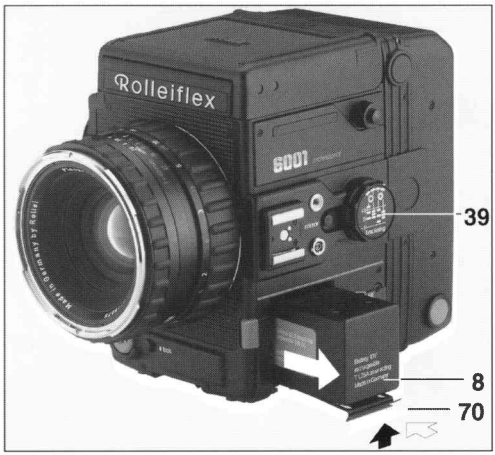
6x6/220 magazine for size 220 film = 24 exposures 6x6cm (2 ¼ x 2 ¼ in.)

Polaroid magazine for 10 exposures 6x6cm (2 ¼ x 2 ¼ in.) on instand film pack.

It is possible to fit the back of a Rolleiflex 6002 or SLX on the Rolleiflex 6001 "professional". However, there is a risk of unsharp pictures due to unsatisfactory film flatness. On the other hand, never fit the magazine of a 6001 "professional" on a Rolleiflex 6002 or SLX, or mechanical damage will occur.

Identifying the magazines
The recess 43 takes commercially available, 12 – 13 mm (½ in.) stickers. Use them – possibly in different colors - to mark the magazine number, film type or subject.

Color-coded lettering surrounding the frame-counter window also marks the different magazine types.

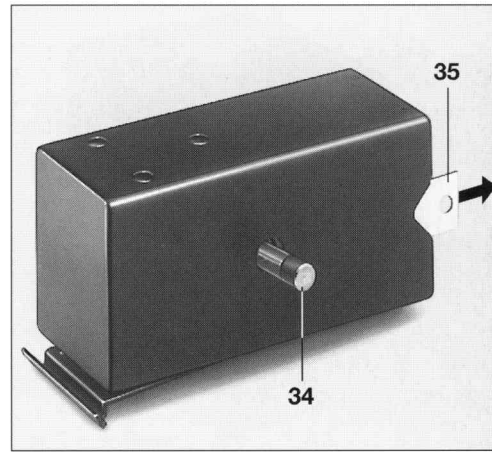


Changing the nicad battery

Press grip 70 up and pull out the spent battery 8. Hold the new battery with its grip towards the camera base and push fully into the battery compartment.

At normal temperature – around 20°C or 65 – 70°F – a fully charged battery is good for about 500 exposures, equivalent to approx. 40 size-120 films or 20 size-220 films of 6x6cm exposures. Where you cannot afford to interrupt shooting sessions or if you have to shoot in very cold weather, it is more convenient to have two battery packs available: Keep one in the camera and the second as a spare while the first is being charged.

A practical tip: The battery-check function positively prevents failure of the camera due to power failure within a roll of film. However, rechargeable batteries - contrary to nonrechargeable ones - may exhibit an abrupt drop in power, above all at low ambient temperature.

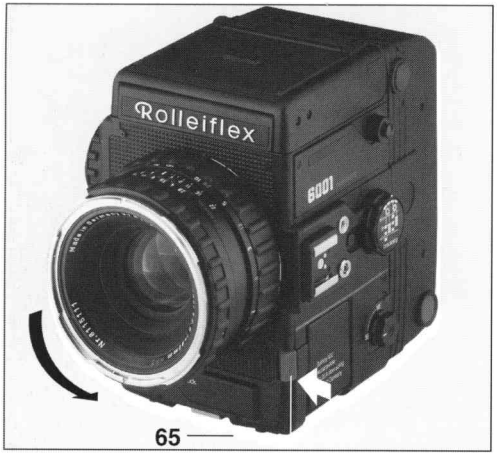


Changing the fuse

Remove battery 8 and pull out fuse 9. Withdraw slide 35 to release spare fuse 34. Push this fully home into the fuse clips. Close slide 35 and replace battery 8. Get a new spare fuse as soon as possible (1.25 A/250 V, slow-blow); obtainable from radio, electrical and photo shops.

To avoid the risk of damage to the camera, never use a fuse other than the type specified.

If the spare fuse also blows, try to locate the cause of the trouble, such as a wrongly loaded film (especially if not spooled straight), film torn in very cold weather or film detached from backing paper. If no cause is apparent, check with Rollei Service.

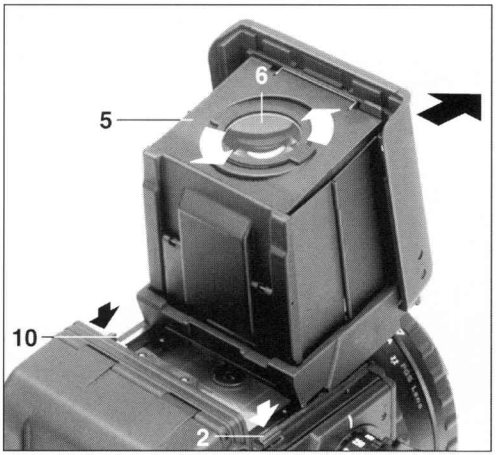


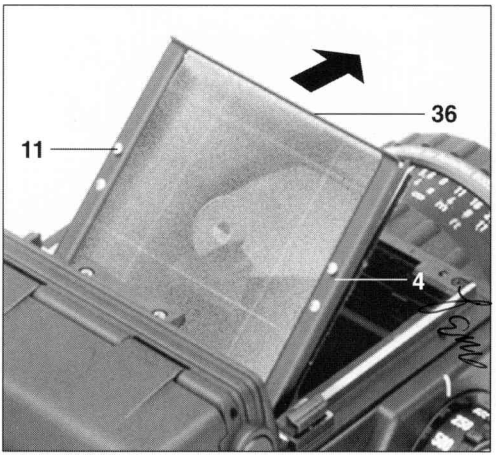
Changing the lens

Depress release 65, turn lens counterclockwise and remove. Align rear red mark of alternative lens with red dot in camera, insert and turn clockwise to engage.

Interchangeable lenses are presently available with focal lengths from 30 to 1000 mm. Data sheets included with the lenses inform about depth of field and also contain optical and closeup data for use with extension tubes and bellows.

With older (non-PQ) Rolleiflex SLX, 6002 or 6006 lenses, aperture bracketing is not possible since these lenses do not allow full-aperture metering.





Changing the finder
Open the standard hood, press both releases 2 and 10 simultaneously and pull the hood off towards the front. In the same way slide on the alternative finder horizontally towards the back, but without pressing the releases. These engage on their own.

A 45° prism finder or 90° eye-level finder automatically switches the camera to unreversed viewfinder display.

Changing magnifiers to suit your eyesight
The magnifier of the focusing hood can be exchanged so that eyeglass wearers may focus without their glasses. Optional magnifiers with powers from +2.5 to –4.5 diopters (matching your distance-glass prescription) are available through Rollei Service.

To change the magnifier, hold the sides of magnifier panel 5 between thumb and index fingers and press the side flaps of the hood against the panel. With the other hand, turn magnifier 6 counterclockwise by its lugs and lift out. Drop in the alternative magnifier and turn clockwise to secure.

Changing the focusing screen
Remove finder in use, withdraw both releases 4 and 11 and carefully swing frame up. Withdraw focusing screen 36 and store it in a dustfree place. Never touch its surfaces – hold it by the edges only. Insert the alternative screen – with its matte side facing the mirror – between the springs and guides. Swing down the frame, pull lightly backwards and fully push down to engage on both sides.

Hints and notes

1 Battery capacity

The battery pack contains special sintered-plate nickel-cadmium cells which stand up well to rapid charging and need virtually no maintenance. As with all rechargeable batteries, the useful capacity drops at low temperatures. After rapid charging, the battery yields power for
up to 500 exposures at +20°C (68°F)
up to 50 exposures at –10°C (14°F).
For maximum low-temperature capacity, charge the battery as fully as possible – a rapid charge followed by three hours of normal charging.
In extreme cold (below –10°C), carry the battery separately in a reasonably warm pocket and insert it only just before shooting. The external battery connector available as an optional accessory is particularly well-suited for this kind of work. In extreme cases (arctic photography, refrigerating chambers or cold laboratories), keep the camera warm or insulated, too.

2 Shutter release

The following means of shutter release are available: body release, cable release, RC-120 release cable and IR remote control. Any combination of these permanently active means may be used. Accidental exposure can be avoided by switching the camera off (shutter-speed dial on "off") or pushing up the magazine slide.

3 Flash

To use the full potential of OTF flash metering, special dedicated flash units are recommended for use with the Rolleiflex 6001 "professional". The Metz 45 CL 4 and 60 CT 4 can be used with a dedicated Metz C-70 adapter. The Rollei dedicated flash adapter SCA 356, on the other hand, serves as an interface for the dedicated flash units of other manufacturers that are compatible with the SCA-300 system.

4 Remote control

Remote-control cables with lengths of 0.4 m, 5 m and 10 m (16 in., 16½ or 33 ft) are available as optional accessories. also permit remote mirror lockup.

Single and continuous exposures can be triggered from a distance of up to 60 m (200 ft) with an RC-03 IR remote-control set. A special circuit in the IR transmitter even allows a second Rolleiflex to be released in synchronism with a manually triggered camera.

Both the transmitter and the receiver are compact, light-weight units and very simple to use. The camera battery powers the receiver. Visual checks confirm transmission and reception and inform about shutter status during time exposures.

Wireless remote control opens up a wealth of attractive and previously inaccessible opportunities – from unobtrusive snapshots with a hidden camera to wildlife photography.

5 Time exposures

The B mode is available for time exposure. With the shutter-speed dial set to B, the shutter will open as the shutter button is pressed and close when it is released. A 1/4in. and a 3/4in. socket are provided for tripod mounting. A quick-release plate fitting the Rolleiflex quick-release tripod coupling makes it very easy to change from hand-held to tripod-mounted photography and vice versa.

6 Macrophotography

Extension tubes and the bellows unit take you right into the realm of large-scale closeups. The tubes can be combined both with each other and with the bellows. Auto iris control is retained even then.

Extension tubes are available with lengths of 9, 17, 34 and 67 mm, all of them with double Rollei bayonet mount for a wide range of combinations. Total extension with the four rings is 128 mm. In conjunction with the extension of the prime lens, the range from 0 to 128 mm can thus be covered steplessly.

The zoom extension tube with its precision helical mount covers a continuous extension range from 22 to 68 mm and thus offers maximum ease of operation in closeup photography. It is primarily intended for use with Zeiss lenses from 40 to 250 mm and may also be combined with the reversing adapter.

The bellows unit covers a continuous extension range from 67 to 204 mm. With the reversing adapter, suitable lenses can be mounted in reverse. The bellows lens hood is a valuable accessory for this type of work which usually calls for sophisticated lighting techniques.

The aforementioned dedicated flash units, and foremost among them the Rollei MF2 Macroflash, are ideal for macrophotography with the TTL-flash metering of the camera.

7 Depth-of-field preview

For subjects requiring precise depth-of-field control, select the aperture using the depth-of-field scale. To check depth of field on the screen, press the stop-down button and use the viewfinder magnifier.

8 Quick release

For sports, animals and fast-paced action, quick shooting is vital to catch the right moment. The delay between shutter release and mirror movement can be reduced to a minimum by locking up the mirror in advance.

To select "Quick Release", lock the mirror up. The camera then waits for the shutter release to be pressed. The delay between depression of the shutter button and actual exposure is only 3 - 4 ms with PQ lenses and approx. 2 ms with PQS lenses.

Note: Shutter speed and aperture cannot be varied after the mirror has been locked up.

9 Continuous sequences

Set master switch to "C". Press and hold the shutter release. The camera now keeps exposing and advancing the film until you let go of the shutter button. With a fast enough shutter speed, you can shoot at approx. 1.5 fps with a 6x6 magazine. If you keep the shutter release depressed until the end of the film, the camera will also spool up the backing paper. Preferably start a long sequence with a new size-120 or, better still, size-220 film.

Main accessories

A line of carefully selected accessories extends the uses of the Rolleiflex 6001 Professional. Some items make handling more convenient, others are essential for special applications. With the exception of the timer, 70mm magazine SCR 120, MRC 120, Master-Control, FM1 and ME 1, Rolleiflex 6008 accessories can also be used on the 6001 Professional.

Pages 32 to 35 show the complete camera system with all its accessories.

Interchangeable lenses

The line of lenses for the Rolleiflex 6001 Professional makes allowance for the versatile functions of the camera and covers all aspects of creative photography.

The PQ/PQS series (marked "PQ" and "PQS Lens", respectively) permits manual aperture control and bracketing with manually set aperture. However, Rolleiflex 6006 and 6002 lenses may also be used on the Rolleiflex 6001 Professional.

The lenses utilize Rollei's unique direct-drive technology. The camera's microprocessor controls two linear motors that drive the iris diaphragm and the shutter at speeds from $^1/_{500}$ s ($^1/_{1000}$ s) to 30 seconds, without steps, with virtually no delay and extreme precision. Ten contacts are the interface between camera and lenses, hermetically protected, with no moving parts and thus free from wear.

The line includes lenses from a 30mm fisheye to a 1000mm super telephoto, with all usual fixed focal lengths plus perspective-control and zoom lenses. In conjunction with the latest ultra-high-speed Schneider lenses, it meets every need of the professional user.

Interchangeable film magazines

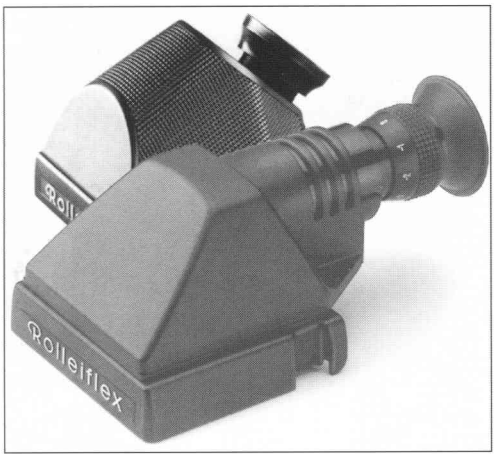
These take size 120 or 220 roll film for 6x6 or 4.5x6cm (2 1/4 x 2 1/4 in. or 1 3/4 x 2 1/4 in.) exposures. All the roll-film magazines use preloadable film inserts and have a built-in laminar drawslide. The following types are available:

- 6x6/120 magazine for 12 exposures, 6x6/220 magazine for 24 exposures. With film-speed input, automatic frame counter and integral laminar drawslide.

- 4.5x6/120 magazines for 16 exposures and 4.5x6/220 magazines for 32 exposures cannot be used.

- The type 4560 magazine for size-120 and 220 film
  - with laminar drawslide
  - LCD
  - function keys for a wide range of settings can be attached for either horizontal or vertical photography.

- Polaroid magazine for ten 6x6cm exposures on 8.5x10.8cm Polaroid film pack, with film-speed input.



Interchangeable finders
Four different finders and six bright focusing screens offer ideal viewing conditions for every type of subject.

The *standard folding hood* for waist-level viewing has an interchangeable (+2.5 to –4.5 diopters) 3x magnifier.

The 45° *prism finder* and the 90° *eye-level finder* give an upright and unreversed image. They rotate, with click stops at 90° intervals, for convenient viewing even from awkward angles.

The *rigid magnifying hood* consists of the Rollei 6x6 magnifier and a base attachment for the Rolleiflex 6001 professional.

The Rollei magnifier is available as an optional accessory and allows viewing of 6x6 slides, negatives or paper prints, and naturally of mounted or unmounted 35mm slides. Superbly corrected, this 3x linear magnifier provides color fidelity and high definition over the entire field. The interchangeable base allows viewing both by incident and transmitted light. Together, the two items make a rigid magnifying finder hood.

Bright focusing screen with central split-image rangefinder and microprism collar (standard)
Split-image rangefinder for highly precise focusing on vertical lines, microprism collar for focusing on randomly textured detail. Microfine screen permits focusing over the entire field.

Clear glass screen
Ideal for precise focusing at any aperture, especially for closeup photography. Particularly well-suited where focusing aids are liable to interfere.

Bright focusing screen
Microfine screen for full-area focusing and unobstructed composition. Also suitable for lenses of very small effective aperture and for depth-of-field previewing. Lines mark the horizontal and vertical 4.5x6cm (1¾ x 2¼ in.) format.

Bright focusing screen with microprism spot
For rapid focusing with microprism and ground-glass screen. Disappearance of image shimmer is a precise focusing criterion even in poor light.

High-D screen
for a super-bright viewfinder image and precise focusing even in poor light or in a portrait studio. A central split-image rangefinder facilitates focusing on vertical lines. Orientation lines for vertical and horizontal 4.5x6 format may be used for easy camera alignment. The High-D screen is standard equipment of the Rolleiflex 6001 Professional.

Bellows unit
With rack-and-pinion drive and focusing stage. Clamping screws lock the extension, shown on a scale. With 1/4 in. tripod bush.
Retains all automatic camera functions.

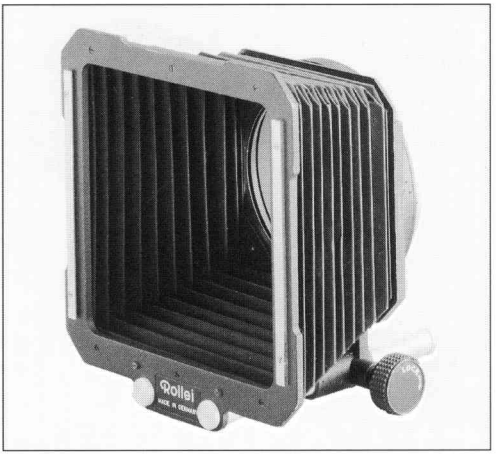
Extension tubes
These are 9, 17, 34 and 67 mm long and may be used alone or in combination, even with bellows unit and reversing adapter. They retain all automatic functions of the camera.

22-68mm Zoom extension tube
The zoom extension tube with its precision helical mount covers a continuous extension range from 22 to 68 mm and thus offers maximum ease of operation in closeup photography. It is primarily intended for use with Zeiss lenses from 40 to 250 mm and may also be combined with the reversing adapter.

Reversing adapter
Enlarges the camera's closeup potential by allowing reverse mounting of 50 to 120mm lenses, and links up all automatic functions. Ideal with the bellows unit, where the reverse-mounted 80mm Planar f/2.8, for instance, yields magnifications from 1.8x to 3.5x.

Rollei SCA-356 flash adapter
For dedicated flash photography with the flash units of other manufacturers for the SCA-300 system.

All connections to the camera are made by simply slipping the flash unit with an SCA adapter into the camera's hot shoe. OTF metering guarantees optimum flash exposure.



Bellows lens hood
The extending bellows hood flags off unwanted back and side light. Its extension scale is marked for focal lengths of 80 and 120-250 mm. It comes complete with screening masks for 120 and 250mm lenses. A rear drawer takes 75x75mm gelatine filters.

Lens table

	Aperture range	Shutter-speed 30 sec –	Angle of view diag./hor.	Design	Focusing range	Maximamum diameter	Maximum length	Weight	Filterfitting
F-Distagon 1:3.5/30 mm PQ	3.5–22	1/500	180/112°	8 elements 7 groups	∞-0.3 m (12 in.)	108 mm 4.25 in.	122 mm 4.81 in.	1550 g 54.6 oz.	built-in M 24 x 0.5
Super-Angulon 1:3.5/40 mm PQ (with Floating elements)	3.5–22	1/500	88/68°	8 elements 8 groups	∞–0.4 m (19 in.)	83.2 mm 3.28 in.	72 mm	750 g	M 77 x 0.75
Distagon 1:4/40 mm PQ (with Floating elements)	4–32	1/500	88/69°	11 elements 10 groups	∞–0.5 mm (20 in.)	83 mm 3.27 in.	90 mm 3.45 in.	1040 g 36.7 oz.	M 95 x 1 via lens hood no.. 60471
Distagon 1:4/50 mm PQ	4–32	1/500	75/57°	7 elements 7 groups	∞–0.5 m (20 in.)	81.5 mm 3.2 in.	96 mm 3.78 in.	840 g 29.6 oz.	Rollei bayonet VI
Super-Angulon 1:2.8/50 mm PQS	2.8–22	1/1000	74/56°	9 elements 8 groups	∞–0.6 m (2 ft)	104 mm 4.1 in.	115 mm 4.55 in.	1600 g 56.4 oz.	M 95 x 1
Distagon 1:3.5/60 mm PQ	3.5–22	1/500	67/49°	7 elements 7 groups	∞–0.6 m (2 ft)	81 mm 3.19 in.	83 mm 3.27 in.	770 g 27.2 oz.	Rollei bayonet VI
Planar 1:2.8/80 mm PQS	2.8–22	1/1000	52/38°	7 elements 5 groups	∞–0,9 m (3 ft)	81.5 mm 3.2 in.	63 mm 2.48 in.	590 g 20.8 oz.	Rollei bayonet VI
Xenotar 1:2/80 mm PQ	2–16	1/500	52/38°	7 elements 5 groups	∞–0,8 m (2.6 ft)	97,3 mm 3.83 in.	100 mm 3.93	960 g 58.2 oz.	Rollei bayonet VI
Apo-Symmar 1:4/90 mm PQS Makro	4–32	1/1000	47/34°	6 elements 4 groups	∞–0.4 m (19 in.)	104 mm 4.1 in.	110 mm 4.34 in.	860 g 30.3 oz.	M 95 x 1
Makro-Planar 1:4/120 mm PQS	4–32	1/1000	36/26°	6 elements 4 groups	∞–0.8 m (2.6 ft)	81.5 mm 3.2 in.	102 mm 4.02 in.	960 g 33.9 oz.	Rollei bayonet VI
Apo-Symmar 1:4.6/150 mm PQ Makro	4.6–32	1/500	29/21°	6 elements 4 groups	∞1:1.1**	81.5 mm 3.2 in.	81,5 mm 3.2 in.	706 g 24 oz.	Rollei bayonet VI
Sonnar 1:4/150 mm PQ	4–32	1/500	29/21°	5 elements 3 groups	∞–1.4 m (4.6 ft)	81.5 mm 3.2 in.	102 mm 4.02 in.	890 g 31.4 oz.	Rollei bayonet VI
Sonnar 1:4/150 mm PQS	4–32	1/1000	29/21°	5 elements 3 groups	∞–1.4 m (4.6 ft)	81.5 mm 3.2 in	102 mm 4.02 in.	890 g 31.4 oz.	Rollei bayonet VI
Tele-Xenar 1:2.8/180 mm PQ	2.8–22	1/500	25/18°	6 elements 6 groups	∞–1.8 m (6 ft)	100 mm 3.94 in.	150 mm 5.9 in.	1525 g 53.7 oz.	M 95 x 1 (filters) Baj. 104 (sun.)
Sonnar 1:5.6/250 mm PQS	5.6–45	1/1000	18/13°	4 elements 3 groups	∞–2.5 m (8.2 ft)	82.5 mm 3.25 in.	170 mm 6.7 in.	1150 g 40.6 oz.	Rollei bayonet VI
Apo-Tele-Xenar 1:4/300 mm PQS	4–32	1/500	15/11°	6 elements 6 groups	∞–3.2 m (10.5 ft)	101 mm 3.95 in.	262 mm 10.31 in.	2000 g 70.5 oz.	M 95 x 1
Tele-Tessar 1:5.6/350 mm PQS	5.6–45	1/1000	13/9°	4 elements 4 groups	∞–5 m (16.4 ft)	90 mm 3.54 in.	227 mm 8.94 in.	1650 g 58.2 oz.	M 86 x 1
Tele-Tessar 1:8/500 mm PQS	8–64	1/1000	9/6°	5 elements 3 groups	∞–8.5 m (28 ft)	100 mm 3.94 in.	316 mm 12.4 in.	1995 g 70.4 oz.	M 86 x 1
Tele-Tessar 1:8/1000 mm PQ	8–64	1/500	4,5/3°	4 elements 4 groups	∞–21 m (68.9 ft)	215 mm 8.47 in.	790 mm 31.14 in.	8740 g 19.3 lbs.	–
PCS-Super-Angulon 1:4.5/55 mm Shift-Objektiv PQ	4.5–32	1/500	70/85°	10 elements 8 groups	∞–0.5 m (20 in.)	104 mm 4.1 in.	155 mm 6.1 in.	1650 g 58.2 oz.	Rollei bayonet Ø 104
Variogon 1:4.5/75–150 mm Zoom-Objektiv PQ	4.5–32	1/500	55/40° 29/21°	15 elements 13 groups	∞–1.8 m (6 ft) & macro	100 mm 3.94 in.	180 mm 7.09 in.	1800 g 63.5 oz.	M 95 x 1
Variogon 1:5.6/140–280 mm Zoom-Objektiv PQ	5.6–45	1/500	32/23° 16/11°	17 elements 14 groups	∞–2.5 m (8.2 ft) & macro	94 mm 3.7 in.	238 mm 9.37 in.	1750 g 61.7 oz.	M 95 x 1 screw-in or 93 mm series

The 2 x tele-converter doubles the focal lengths, extending the lens range to a 2000 mm super tele or to a 280-560 mm super zoom system. The converter is particularly recommended for focal lengths between 80 and 150 mm.
Longar 1.4 x tele-converter. Specially designed for the new fast tele lenses, this converter gives a 1.4 times extension of the focal length while, at the same time, reducing the f-number by one step.

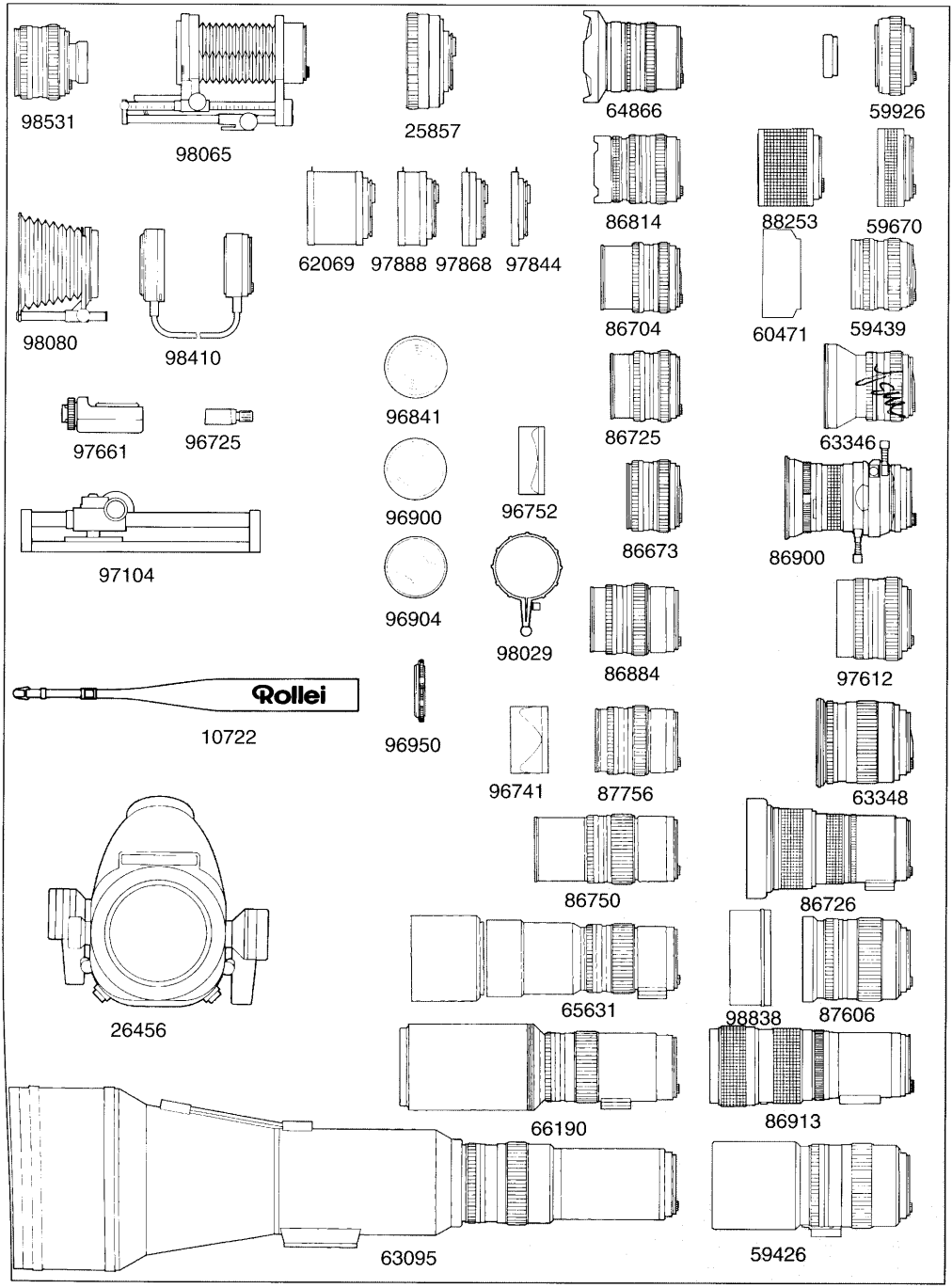
** in conjunction with extension bellows

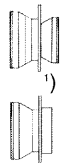
The Rolleiflex 6000 System

59926	M39/40 adapter
59670	1.4x Longar teleconverter
59439	40mm Super-Angulon f/3.5 HFT
63348	50mm Super-Angulon f/2.8 HFT
86900	55mm Super-Angulon f/4.5 HFT
87612	80mm Xenotar f/2 HFT
63348	90mm Apo-Symmar f/4 HFT
86926	75-150mm Variogon f/4.5 HFT
87606	180mm Tele-Xenar f/2.8 HFT
98839	Lens hood for 180mm f/2.8
86913	140-280mm Variogon f/5.6 HFT
59426	300mm Apo-Tele-Xenar f/4 HFT
64866	30mm F-Distagon f/3.5 HFT
86814	40mm Distagon f/4 HFT
98253	2x teleconverter
60471	Lens hood for 40mm f/3.5 or 40mm f/4
86704	50mm Distagon f/4 HFT
86725	60mm Distagon f/3.5 HFT
86673	80mm Planar f/2.8 HFT
86884	120mm Makro-Planar f/4 HFT
86756	150mm Sonnar f/4 HFT
86780	250mm Sonnar f/5.6 HFT
65631	350mm Tele-Tessar f/5.6 HFT
66190	500mm Tele-Tessar f/8 HFT
63045	1000mm Tele-Tessar f/8 HFT
26456	Rollei Marin underwater housing
96900	Zeiss Softar I soft-focus attachment
96841	Circular polarizing filter –1.5
96904	Zeiss Softar II soft-focus attachment
98029	Quick-focusing lever
10722	Carrying strap
96950	Size VI gelatine-filter holder
98080	Bellows lens hood
98410	Reversing adapter
62069	Extension tube, 67 mm
97888	Extension tube, 34 mm
97868	Extension tube, 17 mm
97844	Extension tube, 9 mm
98065	Bellows unit
98531	150mm Apo-Symmar f/4.6 HFT
96752	Lens hood, size VI, for 50mm f/4 and 60mm f/3.5 lenses
96741	Lens hood, size VI, for 80-250mm lenses (except 180 mm)
97814	45° prism finder
62903	90° eye-level finder
64899	Rapid charger
39715	Nicad battery
98200	External battery connector
91187	Car battery cable
10772	Super-bright focusing screen D
97069	Bright focusing screen with central split-image rangefinder and microprism collar
64911	Bright focusing screen
97074	Bright focusing screen with microprism spot
10772	High-D-Screen
56522	Rolleiflex 6008 integral body
64002	Planar 2.8/80 HFT PQS
56521	Rolleiflex 6008 E with Planar 2.8/80 HFT PQ
11615	Rolleiflex 6003 professional with Planar 2.8/80 HFT PQ
56528	Rolleiflex 6001 "professional" with 80mm Planar lens f/2.8 HFT PQ
88798	6x6/120 magazine
88799	6x6/220 magazine

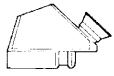
11987	4560 Magazine
10723	DSP 104
25957	Digital ChipPack
97700	Spot-reading back
97698	Average-reading back
98004	Film insert
97979	Polaroid magazine
97661	Rollei SCA-356 dedicated flash adapter
96725	Quick tripod coupling
97104	Focusing rack
98874	RC-120 remote control
10740	Rolei studio camera
64872	Lens control
22493	Swivelling device
12782	Lens adapter

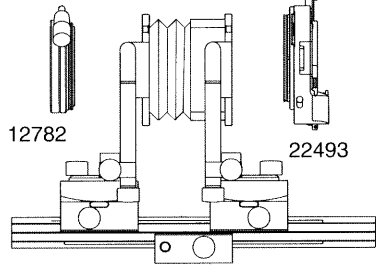
[1]) Professional lenses size 0 and 1,
Rodenstock or Schneider Kreuznach


98531
98065
25857
64866
59926
86814
88253
59670
62069
97888
97868
97844
86704
60471
59439
98080
98410
96841
86725
63346
97661
96725
96900
96752
86673
86900
97104
96904
98029
86884
97612
Rollei
10722
96950
96741
87756
63348
86750
86726
65631
98838
87606
26456
66190
86913
63095
59426

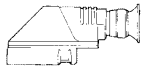


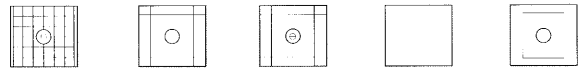

63048
59551

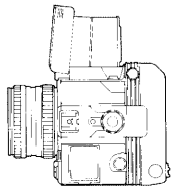

97814

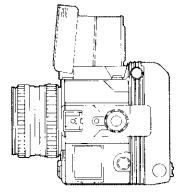


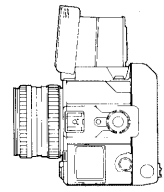

64872

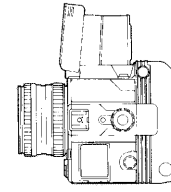

62903

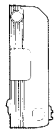


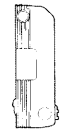

56522

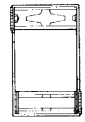

56521


11615

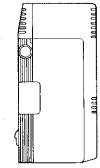

56528

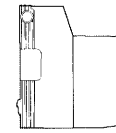

98798


88799


99605


14987

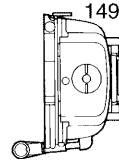

25957

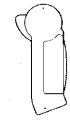

10723

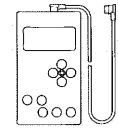

97700


97699


97979

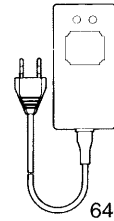

89449

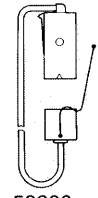

59901

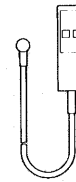

26112


91187


39715


64899


58200


98874

Trouble shooting

Problem
Nothing works
Film fails to advance to frame 1
No aperture display
No viewfinder display
Premature exhaustion of battery
No image on screen
Screen image appears unsharp
Shutter release remains locked.
Camera cuts off during exposure sequence

Cause	Remedy
Camera not switched on	Turn master switch to "S"
Battery not inserted or exhausted	Insert or recharge battery
Drawslide bar of magazine not pushed fully down	Push drawslide bar fully down
Lens unlocked	Lock lens
Loose turns in backing paper	Press shutter release again; if necessary, tighten backing paper by hand before loading film
Lens is not PQ type	Mount PQ lens
Display switched off	Switch display on with control unit
Operating temperature too low	Keep battery warm and recharge or use spare battery or external battery connector
Mirror locked up	Press shutter release and repeat meter reading
Screen inserted wrong way round or not fully engaged	Insert screen correctly (matt side down), push screen frame home fully
Poor eyesight	Use eyesight correction lens (+2.5 to –4.5 diopters, available through Rollei service)
Battery warning went unheeded.	Change or recharge the battery
Battery exhausted	Use fully charged battery

Trouble shooting

Problem	Cause
Camera switches off during film loading or advance; fuse blows	Film base brittle, e.g. in cold weather or after refrigerated storage
	Film wound up unevenly
Pictures unsharp	Camera used with wrong back (SLX/6002)
Frame counter stops at 15 or 16	Size 120 film used in size 220 magazine
Size 220 film not wound up fully	Size 220 film used in size 120 magazine
One or two frames unexposed at end of film	Film insufficiently advanced during loading

Remedy
Keep film (and camera) warm; replace fuse; carry spare battery in warm pocket
Replace fuse (use only type 1.25 A/250 V, slow-blowing)
Use camera only with proper magazine
Press shutter release twice to spool up film end. Pictures probably unsharp due to poor film flattening
Press shutter release about 20 times
Wind on backing paper until arrow mark lines up with index

The care of your camera

Like any other instrument expected to give long-term reliable service, the Rolleiflex 6001 professional calls for suitable care in handling. Do not use any chemical solvents for cleaning. Instead, use these proven methods:

Remove dust with a soft camel-hair brush or a rubber blower. If external lens surfaces need cleaning, gently breathe on them and wipe clean with optical lens tissue. To kill static, breathe on the surface and allow the condensation to evaporate without wiping.

Use special care in cleaning the focusing screen: Remove dust only with a blower or soft camel-hair brush. Protect both sides against fingerprints. Keep the camera away from harmful fumes and dampness.

In highly humid tropical and subtropical climates, metal parts risk corrosion and glass surfaces fungus growth. Whenever possible, dry out the camera in the sun and fresh air. Keep magazines and film tracks clean (gelatine fragments rubbed off the film attract fungus growth). Take special care to avoid dirt or soiling.

Should any problems be encountered, consult your nearest Rollei Service Center.

Specifications

Camera type
Microcomputer-controlled, modular single-lens reflex camera with TTL autoflash control and motorized film advance.

Negative sizes
6x6cm and 4.5x6cm (2/1/4 x 2 1/4 and 1 3/4 x 2 1/4 in.)

Film types
Size 120 and 200 roll film for 12 or 24 6x6cm exposures, respectively, or 32 4.5x6cm exposures. Polaroid film pack for 8 6x6cm exposures.

Shutter
Electronically controlled leaf shutter with speeds from 1/500 s or 1/1000 s to 30 s in 1/3 increments plus B, direct-drive controlled by two linear motors in each lens.

Quick Release
For approx. 3-4ms delay between depression of shutter release and opening of shutter with PQ lenses (approx. 2 ms with PQS lenses).

Automatic flash control
With all shutter speeds from 1/1000 s (PQS) or 1/500 s (PQ) to 30 s. Hot shoe with special contacts for dedicated flash units (SCA-300 system), Rollei SCA-356 flash adapter.

Shutter release
Electromagnetic, in lower right-hand corner of camera front. Additional cable-release and remote-control sockets.

Depth-of-field preview
By means of stop-down button.

Mirror lockup
Mirror lockup is followed by quick release.

Lens mount
Rollei bayonet mount with 10 contacts for transmission of iris and shutter-drive pulses. Automatic diaphragm is retained even with bellows, extension tubes and reversing adapter.

Lenses
Interchangeable Zeiss and Schneider PQ and PQS lenses for use of all camera functions. Non-PQ Zeiss and Schneider lenses may also be used (without aperture bracketing).

Multiple exposure
Film advance disengaged in ME position of camera switch; screen image permanently visible.

Reflex mirror
Instant return mirror with multicoating and pneumatic mirror brake.

Viewfinder system
Camera supplied with folding hood containing swing-out, interchangeable magnifier. Optional 45° prism finder, rigid magnifying hood and 90° eyelevel finder.
Interchangeable focusing screens.

Film advance
Built-in high-performance motor for single shots and continuous shooting with up to 1.5 fps. Automatic advance to first frame. Automatic wind-off after last frame.

Power supply
Rechargeable sintered-plate nicad battery for about 500 exposures at room temperature. Rapid charger (110-240 V, 50/60 Hz) with automatic charge limiter and 12-volt connector for car battery.

Interchangeable film magazines
for 6x6cm/120, 6x6/220, type 4560 magazine for 4.5x6/120 and 220-size film. With integral laminar drawslide, frame counter, film-speed input, film-type reminder and preloadable film inserts. Polaroid magazine for film packs (10 exposures 6x6cm). Rolleiflex 6006 interchangeable magazines are compatible. Automatic film-speed input ISO 100/21°.

Connections
Universal 14-contact threaded socket for manual release and infrared remote control.
Quick-release tripod coupling. ¼ and 3/8in. tripod sockets.

Operating temperature
From -20°C to +60°C.
Special adaptations available from Rollei for extreme temperatures.

Dimensions (mm/wxhxd)
Without lens: 143 x 139 x 124
With 80mm/f2.8 lens: 143 x 139 x 176

Weight
Without lens 1,450 g (with normal lens)
With 80mm/f2.8 lens 2,060 g.