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Rollei E 19
Rollei E 22



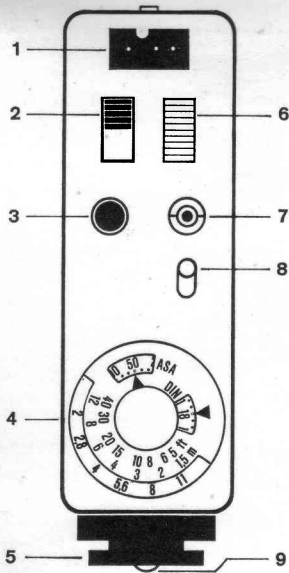
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Rollei E 19 und E 22

Mit Ihrem neuen Elektronen-Blitzgerät wünschen wir Ihnen viel Freude und Erfolg.

Rollei-Werke Franke & Heidecke



Einzelteile und Funktion

- 1 Anschluß für Ladegerät
- 2 Ein / Aus-Schalter
- 3 Handauslösung
- 4 Blendenrechner (m-Skala schwarz, feet-Skala rot)
- 5 Steckfuß zum Einschieben in Steckschuh an Kamera oder Blitzschiene
- 6 Leuchtsignal für Blitzbereitschaft
- 7 Anschluß für Synchronkabel mit Rollei-Stecker
- 8 Verriegelung für Synchronkabel mit Rollei-Stecker
- 9 Mittenkontakt für kabellosen Anschluß

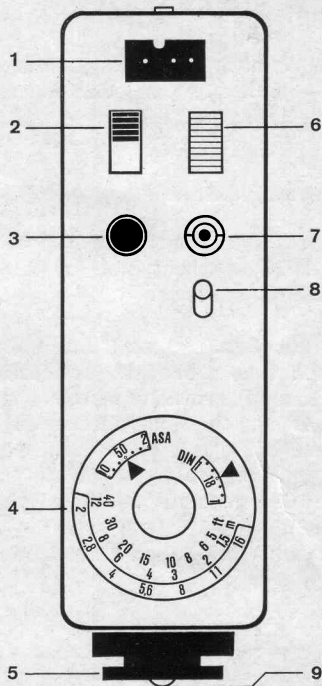
Rollei E 19 and E 22

We wish you much fun and success with your new electronic flash unit.

Rollei-Werke Franke & Heidecke

Component parts and function

- 1 Outlet for charger
- 2 On / off switch
- 3 Manual firing
- 4 Aperture calculator (metre scale in black, feet scale in red)
- 5 Foot for accessory shoe of camera or flash bracket
- 6 Ready signal-lamp
- 7 Outlet for flash cord with Rollei plug
- 8 Lock for flash cord with Rollei plug
- 9 Centre contact for cordless connection



Achtung!

Vor Erstgebrauch Gerät einige Stunden nachladen → Seite 8, da jeder Akku sich bei längerem Lagern entlädt.

Gerät anschließen

Kabelloses Blitzen bei Kameras mit Mittenkontakt im Steckschuh: Steckfuß 5 in Kamera-steckschuh einschieben.

Blitzen mit Synchronkabel bei Kameras mit Synchronnippel: Blitzgerät in Steckschuh an Kamera oder Blitzschiene einschieben.

Kabel anschließen: Rollei-Stecker an Anschluß 7; Normal-, Rollei- oder Leica-Stecker an Kamerasynchronnippel → Seite 16. Mittenkontakt 9 ist durch eingesetzten Rollei-Stecker abgeschaltet.

Kabel lösen: Verriegelung 8 nach unten ziehen.

Kamera einstellen

Synchronanschluß (falls wählbar) X ($\frac{1}{2}$) benutzen.

Verschlußzeit nach Angabe in Kamera-gebrauchsanleitung wählen:

Bei Zentralverschluß beliebig, meist $\frac{1}{125}$ sec; bei Schlitzverschluß meist $\frac{1}{30}$ oder $\frac{1}{60}$ sec.

Entfernung einstellen wie gewohnt.

Blende nach Blendenrechner 4 einstellen → Seite 4. Entfernungen am Blendenrechner gelten zwischen Blitzgerät (!) und Aufnahmeobjekt.

Caution:

Prior to first use charge flash unit several hours → page 9 to compensate for gradual self-discharging (typical of all batteries).

Connecting the unit

Cordless flashing for cameras with “hot shoe” contact in accessory shoe: Push flash unit into shoe.

Flashing with synchronizing cord for cameras with flash outlet socket: Push foot **5** into accessory shoe of camera or flash bracket.

Connection: Rollei plug to outlet **7** and standard, Rollei- or Leica plug to camera outlet socket → page 17. Centre contact **9** is disconnected by inserted Rollei plug.

Disconnection: Pull lock **8** downwards.

Camera settings

Synchronizing setting (if adjustable) with X ($\frac{1}{2}$) setting.

Shutter speed set according to camera instructions: With lens shutters any setting, usually $\frac{1}{125}$ sec.; with focal plane shutters usually $\frac{1}{30}$ or $\frac{1}{60}$ sec.

Distance set in usual way.

Aperture set as indicated by aperture calculator **4** → page 5. Distances shown on calculator are those between flash unit (!) and subject.

Flash Exposures

Determine aperture: Set Δ (or ∇) mark on aperture calculator 4 opposite ASA (or DIN) number of film speed and find required aperture opposite flash-to-subject distance used.

Example for average subjects of medium brightness in a medium-size room of normally reflecting walls:

E 19: 50 ASA (18 DIN), flash distance 3.5 m (11½ ft.), aperture required: f/5.6.

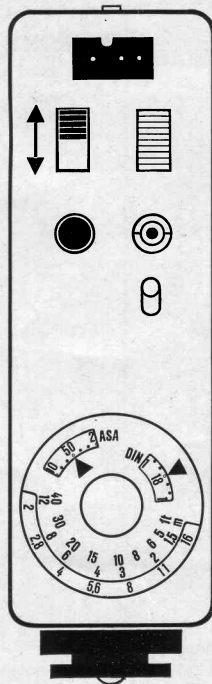
E 22: 50 ASA (18 DIN), flash distance 4 m (13 ft.), aperture required: f/5.6.

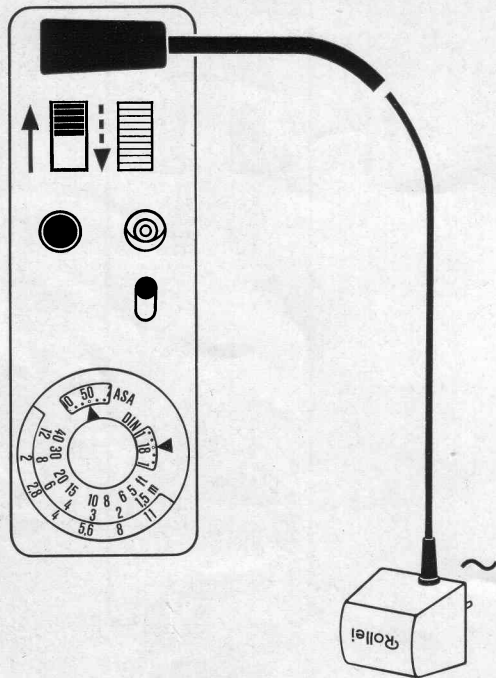
Switch on

Red mark appears on switch 2 when battery operated.

Flash ready when signal lamp 6 lights up.

Off
↑ ↓
On





Bei Netzbetrieb (nur Wechselstrom)

Anschließen am Lichtnetz: Ladegerät mit Anschluß 1 und danach — evtl. über Verlängerungskabel — mit Steckdose verbinden (wie beim Laden, dabei Netzspannung beachten, → Seite 8).

Vorteile: Bei ausgeschaltetem Gerät kann ohne Verbrauch von Akkustrom — sogar bei stark entladendem Akku — beliebig oft geblitzt werden. Bei eingeschaltetem Gerät (Duplexbetrieb) wird Blitzfolge bei E 19 auf ca. 5 sec, bei E 22 auf ca. 6 sec verkürzt.

Blitzbereitschaft wenn Leuchtsignal 6 erscheint.

Ausschalten: Bei Akkubetrieb am Schalter 2 rote Marke unsichtbar (falls unmittelbar anschließende Aufnahmen nicht beabsichtigt sind). Bei Netzbetrieb Ladegerät von Steckdose und Blitzgerät abziehen (nach Duplexbetrieb auch Blitzgerät ausschalten).

With mains operation (A. C. only)

Connection to supply: Connect charger to outlet **1** and only then — with extension cable if necessary — to supply socket (see recharging → page 9).

Advantages: With unit switched off flash possible as often as required with mains power, without using battery current — even with nearly discharged battery.

With unit switched on (combined operation), recycling time is reduced to about 5 seconds with E 19, and about 6 seconds with E 22.

Flash ready when signal lamp **6** lights up.

Switch off if no immediate further shots are planned (with battery operation red mark on switch **2** hidden).

Disconnect charger from mains socket and flash unit (after combined operation switch off flash unit also).

Recharging (A. C. Only)

Check mains voltage

Connect charger only if existing mains voltage equals to that indicated on charging plug.

In case of chargers with voltage selector: Turn slot with coin to existing mains voltage.

Connection

Leave flash unit switched off (red mark hidden). Connect charger to flash unit and to mains socket → page 6.

After charging: Pull charging plug out of mains socket and disconnect charging cord from flash unit.

Charging time

After normal discharge: When recycling time increases to about 30 seconds, recharge as soon as possible for about 15 hours. Up to 50 per cent longer will do no harm.

After full discharge: If signal lamp **6** does not light up (e. g. you had forgotten to switch off), immediately recharge for about 24 hours.

After short idle periods: (up to a few weeks): Before using flash unit again, charge for about 20 minutes while switched off and flash it a few times while being charged. Flash capacitor is then reformed and unit fully ready to flash again without loss of battery capacity.

After longer idle periods: Recharge unit after every few months to compensate for gradual self-discharging (typical of all batteries).

Practical flash hints

① Current economy

After use and during longer shooting intervals: Switch off unit.

② Signal lamp

After switching on: Wait for signal lamp **6** to light up. Delay in lighting up indicates that battery needs recharging (at the most after 40 flashes with the E 19 or 50 flashes with the E 22).

③ Bounce flash

Advantages: Soft illumination without hard shadows. Use flash cord and direct flash unit by hand (or commercial tilting bracket) towards ceiling. According to subject condition, open aperture more than indicated by calculator (usually 2—3 steps).

④ Flash reflections

Avoid shooting in directions where reflecting surfaces would throw your flash light directly back into camera. Choose viewpoint and arrange flash unit so that frontal reflections (window panes, mirrors or polished surfaces) are eliminated.

⑤ Outdoor flash shots at night

Open aperture by 1—3 stops, to compensate for missing wall reflection (aperture calculator allows for nearby reflecting walls indoors).

⑥ Flash distance and taking distance

can be varied independently by using flash extension cord between flash unit and camera. Refer to flash-to-subject distance when setting aperture!

Practical flash hints

⑦ Open flash

This method allows series of flashes during a long time exposure to obtain special effects and trick shots. Use flash and camera separated, open camera shutter, and flash by manual firing 3.

⑧ Fill-in flash in daylight

To relieve shadows: Find required aperture from calculator 4, but set camera to next smaller f-stop and use appropriate shutter speed (as to exposure meter).

Result: Whole subject is correctly exposed, but share of flash reduced so far that shadows are relieved only, however, without being fully lightened.

⑨ Double flash

Synchronized flash shots with two flash units: Use a multiple adaptor for coupling both flash cords. Two flashes frontally at equal distance will double your light, so use next smaller aperture stop. With flashes at different distances (second flashes serving as fill-in for example): Use aperture for distance between subject and main flash.

⑩ Charging during travel

Abroad various types of plug sockets may be found. As a precaution: Take with you suitable adaptor for charging plug to connect it through extension lead with local type plug.

Accessories

Camera brackets

1. Bracket with accessory shoe and synchro adaptor for Rollei 35, Order No. 301 220.

To mount: Push adaptor into camera accessory shoe, fit bracket with milled screw to camera bottom. Mount flash unit to bracket, connect flash cord to outlet **7** and to synchro adaptor.

Caution: Always fit synchro adaptor to camera first before connecting flash unit to adaptor to avoid premature firing!

2. Bracket with accessory shoe and square base plate for twin lens Rollei cameras, Order No. 301 230.

To mount: Fit bracket with milled screw to camera bottom. Mount flash unit to bracket, connect flash cord to outlet **7** and to camera contact socket.

Note: After loosening two screws on base plate, bracket can be switched over from left to right or into inclined position. Without base plate bracket will fit onto Rollei pistol grip.

3. Bracket with accessory shoe for Rollei pistol grip, Order No. 301 240.

To mount: Use slit screw of pistol grip to mount bracket in left or right position. Fit flash unit to bracket, connect flash cord to outlet **7** and to camera contact socket.

Synchronkabel

sind je nach Länge, Kamera und Steckerart in folgenden Ausführungen lieferbar (→ Abb. unten, R = Rollei-Stecker, N = Normal-Stecker, L = Leica-Stecker):

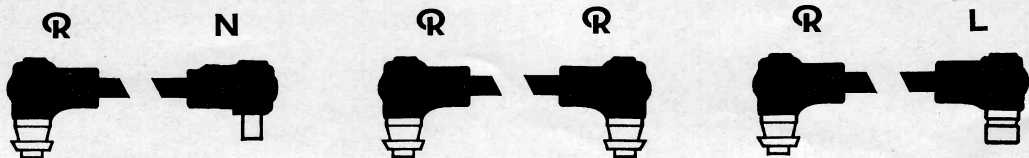
Benennung	Geräteanschluß	Kameraanschluß	Best.-Nr.
Kabel 40 cm	Rollei-Stecker	Normalstecker	309 200 *
Kabel 40 cm	Rollei-Stecker	Rolleistecker	309 210 ○
Spiralkabel 35 / 125 cm	Rollei-Stecker	Normalstecker	309 220 *
Spiralkabel 35 / 125 cm	Rollei-Stecker	Rolleistecker	309 230 ○
Spiralkabel 35 / 125 cm	Rollei-Stecker	Leicastecker	309 240 ●

* für Rolleiflex SL 35, für Rollei 35 mit Schiene 1, und für Fremdkameras außer Leica;

○ für alle Rollei-Kameras außer Rolleiflex SL 35;

● für Leica-Kameras außer Leicaflex.

Wichtig: Am Blitzgerät nur Rollei-Stecker anschließen, da sonst Mittenkontakt 4 nicht abgeschaltet wird oder Blitz evtl. nicht zündet!



Flash cords

according to length, camera and plugs fitted are available as follows (→ fig. page 16, R = Rollei plug, N = Standard plug, L = Leica plug):

Description	Unit connection	Camera connection	Order No.
40 cm / 16 in. cord	Rollei plug	Standard plug	309 200 *
40 cm / 16 in. cord	Rollei plug	Rollei plug	309 210 ○
35 / 125 cm – 14 / 50 in. coiled cord	Rollei plug	Standard plug	309 220 *
35 / 125 cm – 14 / 50 in. coiled cord	Rollei plug	Rollei plug	309 230 ○
35 / 125 cm – 14 / 50 in. coiled cord	Rollei plug	Leica plug	309 240 ●

- * for Rolleiflex SL 35, for Rollei 35 with bracket 1, and for other cameras except Leica;
- for all Rollei cameras except Rolleiflex SL 35;
- for Leica cameras except Leicaflex.

Caution: Only use Rollei plugs for flash unit outlet, otherwise centre contact 4 is not disengaged or flash may fail to fire!

Technical Data

Guide number for colour film 50 ASA/18 DIN
according to DIN 19011

Flash duration (to.1)

Recycling time with battery operation
with mains operation
with duplex operation

Flash capacity with fully charged battery
with mains operation

Flash power

Colour temperature

Angle of illumination

Reflector diffuser

Ready signal

NC battery, rechargeable and maintenance-free

Battery recharging time after normal discharge

Dimensions

Weight

Electrical protection

Technical modifications reserved

E 19

metric feet

19 62

approx. $\frac{1}{1500}$ sec.

approx. 8 sec.

approx. 15 sec.

approx. 5 sec.

approx. 40 flashes

unlimited

32 Wsec

approx. 5500° K

approx. 46° x 60°

colour-corrected
signal lamp

5 V / 225 mAh

approx. 15 hours

82 x 72 x 28.5 mm
(3 $\frac{1}{4}$ x 2 $\frac{7}{8}$ x 1 $\frac{1}{8}$ in.)

approx. 228 g (8 oz.)

electrically safe by disconnecting transformer
in charger plug

E 22

metric feet

22 72

approx. $\frac{1}{1000}$ sec.

approx. 8 sec.

approx. 20 sec.

approx. 6 sec.

approx. 50 flashes

unlimited

44 Wsec

approx. 5500° K

approx. 46° x 60°

colour-corrected
signal lamp

3.7 V / 500 mAh

approx. 15 hours

99 x 82.5 x 34.5 mm
(3 $\frac{7}{8}$ x 3 $\frac{1}{4}$ x 1 $\frac{3}{8}$ in.)

approx. 360 g (12 $\frac{1}{2}$ oz.)

Handlings fault and remedies

Trouble	Cause	Remedy	Remark
Signal lamp lights up too late	Battery discharged	Recharge battery	If urgent, use mains operation
Signal lamp fails to light up	Battery fully discharged	Immediately recharge battery	
Flash fails to fire	Contact failure on flash cord plug	Connect cord tightly	
	Flash cord wrongly connected	Change over cord connections	Always connect Rollei plug to flash unit
	Flash cord defective	Renew cord	Do not bend cord too strongly
Picture over- or underexposed	Film speed set wrongly	Set film speed exactly	
	Aperture too large or too small	Attend to aperture calculator	
Picture underexposed	Wall reflection missing or insufficient	Open aperture	About 1-3 stops outdoors, about 1-2 stops in large dark rooms
	Bounce light without aperture correction		2-3 stops according to height of room
	Signal lamp not noticed	Do not flash before signal lamp lights up	
Picture unexposed	M-setting used	Use X (f) setting	M-setting fires flash too late
Picture partly exposed	Shutter speed too short	See instruction manual of camera	With focal plane shutters usually not shorter than 1/30 or 1/60 sec.
Picture partially or entirely irradiated	Frontal flash reflection	Change viewpoint and/or flash direction	Especially with window panes, polished furniture, tiled walls etc.