

# Rolleiflex SL66

June, 1980

# Rollei



This 2¼" single lens reflex camera has long been a favorite with many photographers for its unique features and flexibility. Only the SL66 has built-in bellows and allows retro mounting of lenses for close-up and macro photography without accessories. In addition, the tilting lensboard provides for greater depth of field correction, even at wide apertures.

The standard magazine accepts either 120 or 220 film. The exposure counter automatically adjusts for either size, and gives an audible and visual signal to indicate the end of the roll. Accessory backs include a vertical and horizontal 6X4.5 back, and a Polaroid back.

For vibration-free shooting, the SL66 has a mirror lock-up control as well as a pneumatic dampening system. Other features include multiple exposure control; safety locks to prevent accidental exposure of film, interchangeable focusing screens, a dark slide storage compartment, and a film/no film indicator.

## Technical Data

### Camera Type:

6 X 6 cm (2¼ X 2¼") single lens reflex.

### Lenses:

Standard — 80mm f/2.8 HFT Planar. Rollei SL66 Bayonet mount. Lens can be retro mounted without accessories for a reproduction ratio of 0.9 to 1.5 X, and a close focus distance of 4.75 inches.

Accessory lenses range from 30mm f/3.5 to 150mm f/4.0 and 1000mm f/8.0. Focal lengths currently under development include 120mm f/5.6, 250mm f/5.6 and 500mm f/5.6.

### Shutter:

Focal plane shutter, speeds from 1 to 1/1000 second and B. Time exposures are achieved by locking the shutter release when shutter is set to B.

### Viewfinder system:

Folding focusing screen with pop-up magnifier (supplied with camera). 45 degree prism finder available as an accessory.

### Focusing screen:

Interchangeable. Standard screen — split image surrounded by microprism collar and square grid. Five accessory screens available.

### Mirror:

Instant return mirror with pneumatic damper. Mirror lock-up provision.

### Flash synchronization:

X-synchronization up to 1/30 second. At speeds faster than 1/30 second, flash contact disengages. Two accessory lenses with between-the-lens shutters are available when faster sync speeds are needed.

### Bellows:

Extends 50mm and can be tilted 8° up or down for increased depth of field. Focusing strut indicates bellows extension and reproduction ratios for 80, 150, 120 and 80mm reversed lenses.

### Film transport:

Crank operated with override for intentional multiple exposures.

### Film loading:

Interchangeable magazine accepts 120 or 220 roll film. Changeover frame counter, 12 or 24 exposures; film feeler system for automatic transport lock at first frame; load indicator; safety locks; compartment for magazine slide; visual and audible film end indicators. Accessory magazines 6 X 4.5cm vertical, 6 X 4.5cm horizontal, Polaroid magazine.

### Size:

5.3 X 6.8 X 4.4" (132.5 X 170 X 110mm) with lens.

### Weight:

4 lbs., 3 oz. with lens (1876 gm)

SL66 body only, less lens and magazine

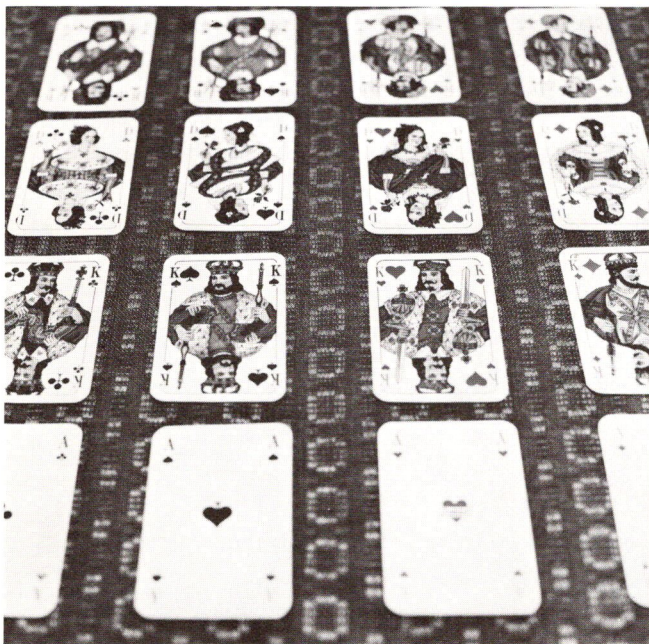
### 560010

SL66 body with one 120/220 magazine, less lens

### 560012

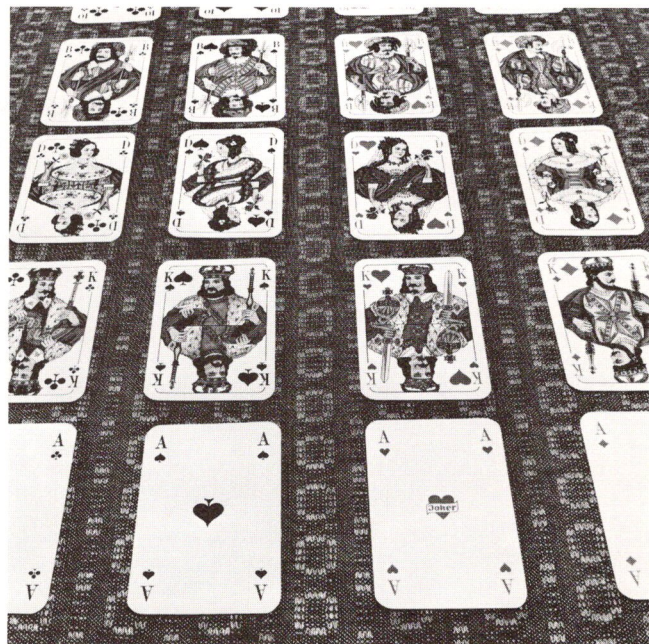
SL66 complete with one 120/220 magazine, Planar HFT 80mm f/2.8 lens

### 560014



### Normal Focusing

Planar 2.8/80 mm with the lens not being tilted and at full aperture (f/2.8) the zone of sharpness in the picture is confined to a limited depth of field zone in the foreground.



### Extended Depth

(Scheimpflug Condition) Planar 2.8/80 mm  
With the lens tilted and at full aperture (f/2.8) the depth of field covered with sharpness extends from the foreground to the background.

## Extended Depth-of-Field

The Rolleiflex SL66 lens can be tilted up or down  $8^\circ$  relative to the film plane. This ability satisfies the optical requirement for extended depth (the so-called Scheimpflug principle). This is one of the unique features of the SL66 — no other  $2\frac{1}{4}$ " SLR

has this capability. With the  $8^\circ$  tilt of the standard 80mm f/2.8 lens, a flat inclined surface can be photographed from about 34" to infinity — without stopping down. Subjects that are less than flat can also be brought into the depth of field zone with some stopping down.

In addition to visual screen focusing, there is an indicator chart supplied with the camera to permit precision settings and exact determination of the depth-of-field zone.

The depth-tilt feature of the SL66 provides the photographer with a tool for exploring a new dimension of creative freedom. Applications for this useful feature include architectural details and subjects, model shots, art, historical reproductions, advertising photography, product shots and close-ups.

# SL66 Lenses

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These superb Carl Zeiss-designed lenses are specially formulated for the SL66. They all feature quick-change bayonet mounts, rubberized lens barrels, and HFT coating for optimum image quality.

All lenses between 50mm and 250mm have a bayonet VI filter size. Lenses from 40mm to 250mm feature automatic diaphragms and 1/2 click stop aperture control. The 50mm, 80mm and 120mm lenses can be retro-mounted for macro work.

Focal Length	Aperture Range	Angle of View	Minimum Focus (lens in normal pos.)	Construction	Length in./mm	Diameter in./mm	Weight oz./gm.
30mm f/3.5 F-Distagon	3.5-22	180°	0 in.	8 elements 7 groups	4.6"/ 115.5mm	4.3"/ 108mm	39.6/ 1130g
40mm f/4.0 Distagon*	4-32	88°	20 in.	10 elements 9 groups	5"/ 125mm	4.2"/ 104mm	42.6/ 1218g
50mm f/4.0	4-32	75°	20 in.	7 elements 7 groups	3.8"/ 94mm	3.2"/ 79mm	19.4/ 555g
80mm f/2.8 Planar	2.8-22	52°	6.5 in.	7 elements 5 groups	2.5"/ 63mm	3.2"/ 79mm	24.7/ 705g
80mm f/4.0 Distagon w/shutter	4-32	52°	6.5 in.	5 elements 5 groups	3.4"/ 86mm	3.3"/ 82mm	22.3/ 638g
120mm f/5.6 S-Planar*	5.6-45	36°	1 ft. 2 in.	6 elements 4 groups	3.6"/ 91mm	3.2"/ 79mm	15.2/ 435g
150mm f/4.0 Sonnar	4-32	29°	2 ft.	5 elements 3 groups	3.8"/ 94.5mm	3.2"/ 79mm	19.1/ 545g
150mm f/4.0 Sonnar w/shutter	4-32	29°	2 ft.	5 elements 3 groups	3.8"/ 94mm	3.3"/ 82mm	24.7/ 705g
250mm f/5.6 Sonnar*	5.6-45	18°	4 ft. 9 in.	4 elements 3 groups	5.7"/ 143mm	3.2"/ 79mm	23.3/ 665g
500mm f/5.6 Tele-Tessar*	5.6-45	9°	20 ft.	6 elements 5 groups	12.3"/ 308mm	4"/ 100mm	57.4/ 1640g

\*Availability to be announced

### Viewfinder Accessories

#### 45° Prism Finder

Rotating prism has 4 click stops at 90° intervals, and produces a brilliant unreversed image, with a magnification of 2.5 X. Case included.

208810

#### Focusing Screens

##### Standard Focusing Screen

Central split image rangefinder surrounded by microprism ring. Horizontal and vertical grid pattern aids in accurate framing.

560180

##### Ground Glass Focusing Screen

Very fine matt surface without additional markings. Permits accurate control of sharpness; especially useful for macro-photography.

560030

##### Brilliant Focusing Screen

Standard brilliant screen without any special focusing devices. Engraved horizontal and vertical grid pattern. Especially useful for portrait work.

560040

##### Brilliant Focusing Screen with Central Rangefinder Wedge

Especially suitable for rapid and precise checking of sharpness. This feature, along with the vertical and horizontal grid, make this screen useful for architectural photography.

560050

##### Brilliant Focusing Screen with Central Microprism

Within this grid, the image jumps into focus with an abrupt transition from a flickering outline to absolute clarity of detail. This microprism grid permits sharp focusing even in poor light.

560060

##### Brilliant Focusing Screen with Central Clear Field Lens

Developed specifically for macro-photography and photomicrography, this screen has a hairline cross and a millimeter graticule for precise centering.

560100

#### Frame for Focusing Screens

560080

### Close-up Accessories

#### Extension Tubes

40mm Extension Tube

208750

80mm Extension Tube

208760

#### Universal Extension Tube Set

With the aid of a twin cable release, this set maintains automatic aperture coupling of the lenses even when the latter are retro mounted or used on extension tubes, or on the supplementary bellows. The universal extension tube set consists of four parts, which are combined in pairs: the lens adapter ring, 40 and 80mm extension tubes and an adapter ring for using filters and lenshoods when the lens is retro mounted.

208740

#### Accessories for Technical and Macro-photography with the SLX

##### Focusing Rack

Permits rapid and continuous adjustment of subject distance, eliminating the need to shift the tripod or subject. The rack has a rigid twin rail with a 6¼" traveling track length.

979200

##### Extension Bellows

Provides an additional ten inch (25cm) adjustment over and above the extension of the camera bellows. When used with the focusing slide, provides a convenient continuous scale adjustment in macro-photography.

977000

##### Adapter Ring, Camera

For attaching extension bellows to SL66.

209400

##### Adapter Ring, Lens

For attaching lens to front of extension bellows.

209410

##### Extension Bellows Set

Includes focusing rack, extension bellows, and camera and lens adapter rings.

977009

#### Macro Stage

Attaches to bellows rods; uses rotating and interchangeable clear and translucent glass sheets for exposures by reflected, transmitted or glancing light.

977010

#### Object Illuminating Glasses (2)

Clear and translucent glass sheets for use in Macro Stage.

209430

#### Fine Focus Device

A micrometer focusing drive for the macro stage or extension bellows. Permits precise adjustment of the plane for maximum sharpness.

977020

#### Vibration Dampers

Two dampers to prevent vibration during focusing and exposure at long bellows extension. Attach to rods of extension bellows.

977030

#### Slide Copy Stage — 2¼ X 2¼

Used with extension bellows

977040

#### Slide Copy Stage — 35mm

Used with extension bellows

977050

#### Blank Lens Board

Without lens thread — permits the use of other make lenses. Maximum clear opening is 58mm.

208790

### Magazines

#### 120/220 Magazine — 6 X 6 cm

For 12 or 24 exposures. Comes with protective cap.

560020

#### 120/220 Magazine — 6 X 4.5 cm Horizontal

For 16 or 32 exposures. Comes with protective cap and viewfinder mask.

560110

#### 120/220 Magazine — 6 X 4.5 cm Vertical

For 12 or 24 exposures. Image proportions match 5 X 7 inch enlargements. Ideal for portraits. With protective cap and viewfinder mask.

560130

## **Polaroid Magazine**

For 8 exposures (2¼ X 2¼) on 3¼" X 4¼" film packs.

**977140**

## **Lenshoods**

### **Lenshood for 50mm Distagon**

**206010**

### **Lenshood for 80-250mm Lenses**

**206020**

### **Professional Lenshood**

For lenses from 50-250mm. Has scale to indicate proper extension for each lens and a set of masks for proper light cut-off. Drop-in slot at rear for easy filter placement.

**974550**

## **Filters (Bayonet VI)**

### **Gelatin Filter Holder**

**206100**

### **Medium Yellow**

**206030**

### **Green**

**206040**

### **Orange**

**206050**

## **Light Red**

**206060**

## **Infrared**

**206070**

## **R1.5 (Skylight)**

**206080**

## **Zeiss Softar I**

**206110**

## **Zeiss Softar II**

**206120**

## **Rolleipol Polarizer**

**206090**

## **Other Accessories**

### **Other Accessories**

#### **Handgrip with Release**

Left hand grip. Has adjustable leather hand strap, removable cable release, tripod coupling; accepts flash bracket on bar, has accessory shoe on grip top.

**208930**

#### **Quick Release Tripod Adapter**

Screws to tripod head; locking cam permits instant mounting and dismounting of camera.

**208700**

## **Eveready Case**

Hard black leather

**960470**

## **Soft Leather Case**

For SL66 with lenses up to 150mm attached

**970490**

## **Neck Strap**

**871197**

## **Front Lens Cap/50-250mm**

**977070**

## **Rear Lens Cap**

**977060**

## **Front Body Cap**

**209380**

## **Rear Body Cap**

**209390**

