



# Rolleiflex SL66 E/SL66

## The Medium-Format Leader

**Rollei**  
fototechnic

# Rolleiflex SL 66 E/SL 66 – The Cr

Today the 6x6 medium-format is being adopted in all fields of photography. Whether it's used for professional studio work or leisure photography, for macro work, photomechanical reproduction or projection in large lecture halls, the 6x6 format is the most sensible compromise between what a 35 mm camera cannot offer – high-quality reproduction – and the speed and convenience not available with a large-frame camera.

For decades, the name "Rollei" has been a byword for the most advanced photographic technology, especially in the medium-format range. The best example of this is the legendary twin-lens Rolleiflex 2.8 F. This proud claim is supported by the Rolleiflex SL 66 and the sophisticated

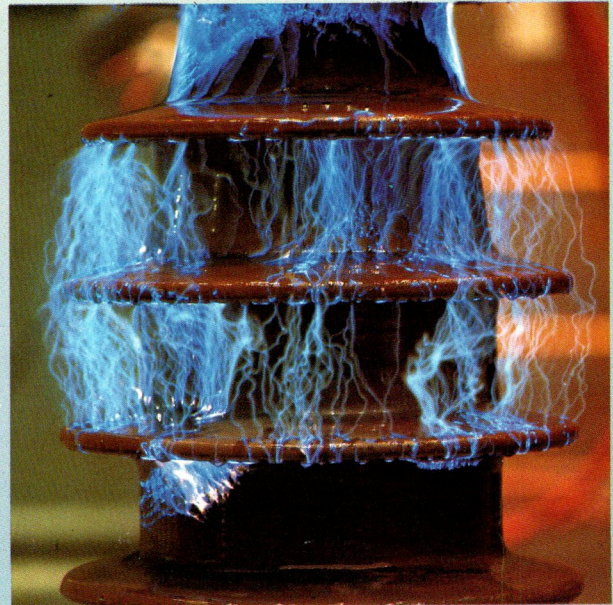
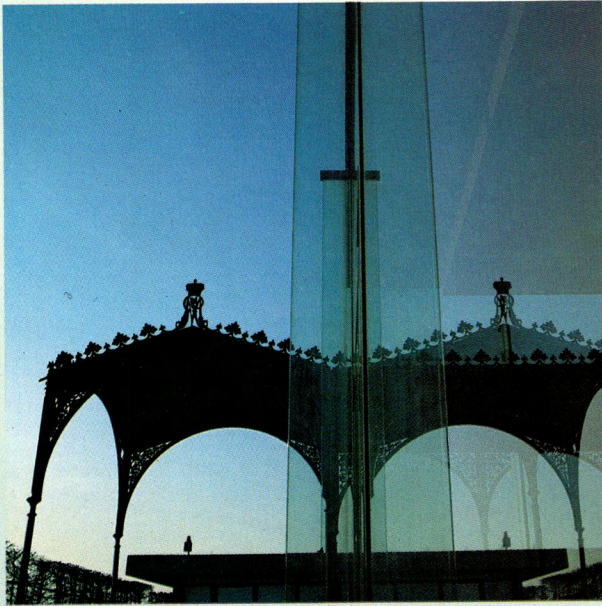
Rolleiflex SL 66 E. All the advantages of the 6x6 format are incorporated in these models. Thus, the Rolleiflex SL 66 E is the only 6x6 camera in the world to have TTL exposure metering (follow-up principle) built into the camera body, with LED indicators and internal TTI flash measurement.

Together with the Rollei HFT®\* range of high-quality lenses, specially developed for Rollei by Carl Zeiss, Oberkochen, and the extensive system accessories, the Rolleiflex SL 66 E and SL 66 put all the creative possibilities of modern photography within the reach of both the professional photographer and the demanding amateur.



\* Rollei HFT is a registered trade mark.

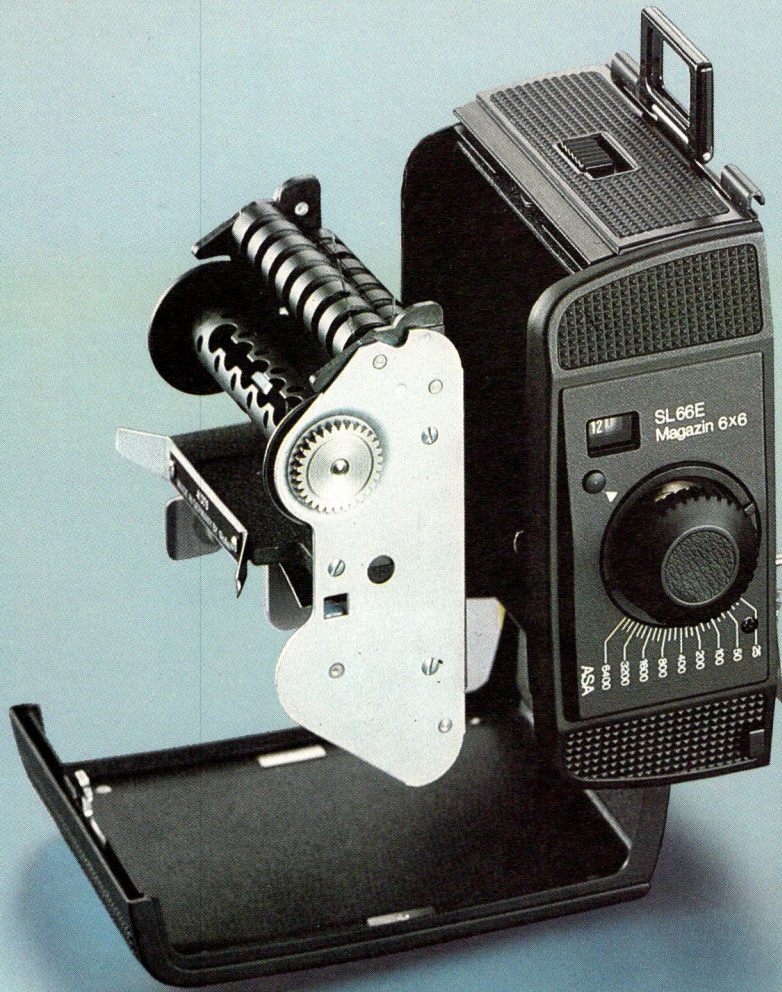
# Creative Lead in Medium-Format



# Rolleiflex SL 66 E and SL

The system that opens up all the opportunities for creative photography. It's trouble-free, reliable, precise.

Interchangeable:  
viewing heads and  
focusing screens.



Interchangeable:  
magazines and cassettes.



The camera body.

# 66 – The Flexible System

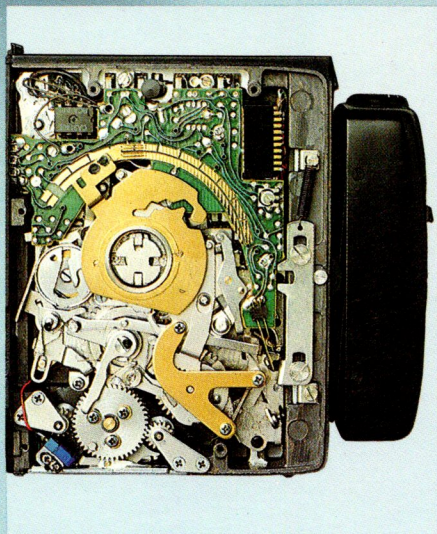
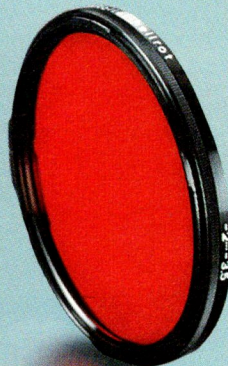
Rolleiflex – the system built on the successful design principle that the features you always need are built in, while the elements that have to be variable are light and easily interchangeable.



Interchangeable:  
lenses.



Interchangeable:  
filters and lens hoods.



The professional mechanism of the Rolleiflex SL 66 E and SL 66 works with the maximum precision. With the added feature of electronic exposure control, the Rolleiflex SL 66 E is a prime example of the latest photographic technology and is also suitable for extreme photographic requirements.

# The Basis of the

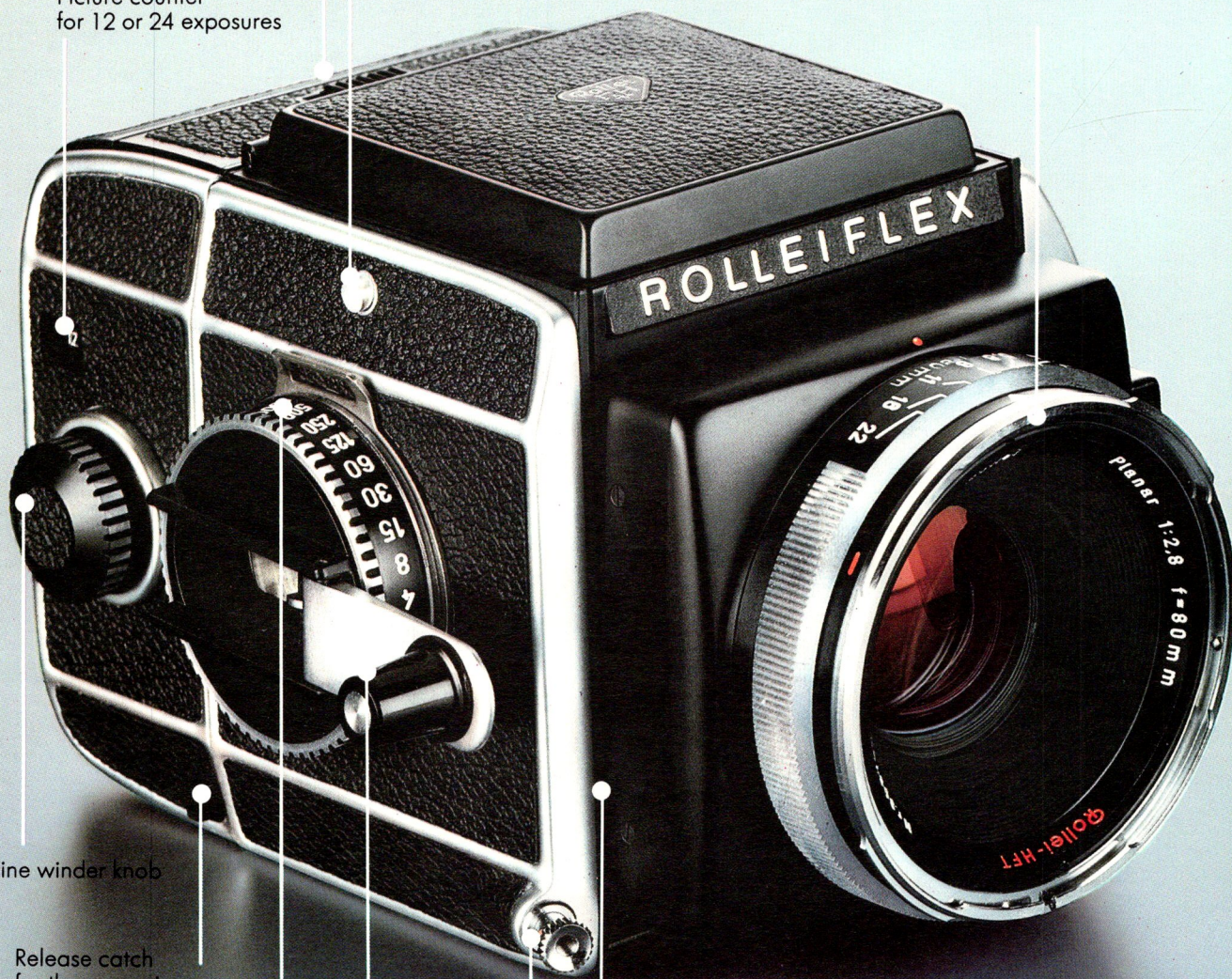
The camera body is the centerpiece of the whole Rolleiflex system. It is functional, clearly marked and incorporates the latest camera technology. The SL 66 E's unique electronic metering makes it the ideal camera for all those who put

Catch for the magazine back.

Picture counter for 12 or 24 exposures

Release catch for changing the viewing head.

Lens double bayonet mount for lens accessories or Retromounting.<sup>®</sup>



Magazine winder knob

Release catch for the magazine

Shutter speed control

Fast-action crank for cocking the shutter and moving the film on (for multiple exposures the film transport can be disengaged).

Lockable release button with screw thread for cable release.

Quick tripod coupling with 3/8" thread.

Built-in bellows for the close-up and macro range. 50 mm extension. The depth of field can be extended (see page 10) by tilting the lens holder up to  $\pm 8^\circ$ .

# Perfect System

their faith in professional equipment and still want the convenience of modern exposure technology. Even when the batteries are flat, the camera is fully functional, except exposure metering.

Rotary knob for setting distance and depth of field. It may be used for the four most important lenses: with focal lengths of 50, 80, 150 and 250 mm.



Exposure adjustment knob

Depth-of-field scale

Distance scale

Focal length indicator

Electrical connection for the flash unit

Clamp knob for  $\pm 8^\circ$  bellows tilt

Hot shoe with central contact and contacts for automatic flash

Lockable stop-down button for monitoring depth of field before taking the picture.

Support rail with scales for length of extension, magnification factor, lens tilt, and also for stop number correction when using an external exposure meter.

Battery monitor

## Only the Rolleiflex SL 66 E gives you:



- Electronic TTL exposure metering with LED indication in the viewfinder. The five coloured LEDs precisely indicate over- or under-exposure (red) or correct exposure (green); the yellow LED lights up when the exposure changes by approximately half a stop. The built-in electronic exposure system also gives reliable exposures in difficult photographic conditions (e.g. in telephoto or close-up work) since angle of view and time increase factors are automatically incorporated in the measurement. The exposure electronics are fully operational with all the viewfinder systems.
- Exposure adjustment knob (up to  $\pm 1\frac{1}{2}$  stops) e.g. for photography with back lighting
- Built-in automatic flash with through-the-lens flash measurement (see page 17).
- DIN/ASA setting on the interchangeable magazine.

# Unique: the Built-i

Building the bellows into the camera body has three definite advantages:

1. Subject distances are shorter, even with long-focus lenses (e. g. 60 cm with a focal length of 150 mm).

## Retro-mounting®

The lenses of the Rolleiflex SL 66 E and SL 66 (f4/50 mm), f2.8/80 mm, f5.6/120 mm) are designed in such a way that they can also be mounted with the front lens towards the camera – in the Retro-mounting®. The advantage of this feature is that it gives an increased image scale without the use of attachments (e. g. up to 3:1 with the 50 mm wideangle lens).

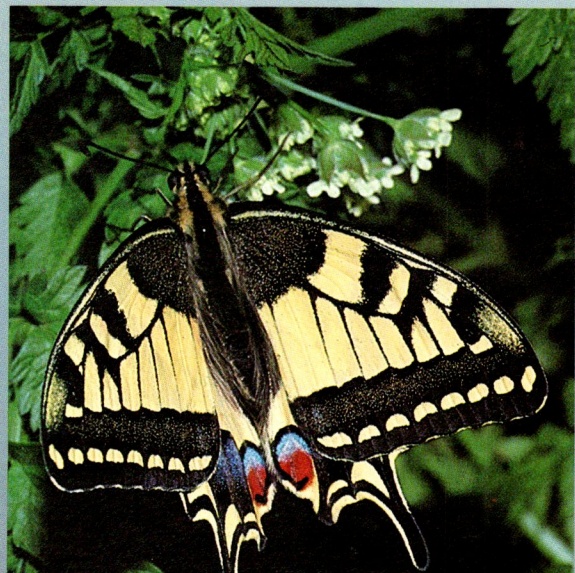
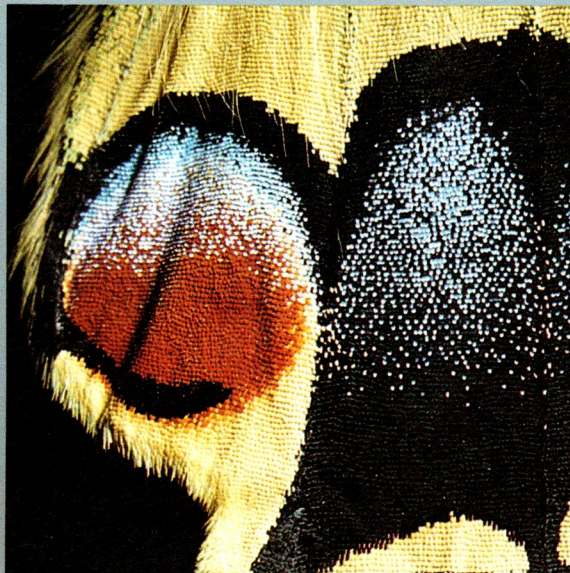
## Shorter subject distance

The full extension of the bellows is 50 mm. With the normal f2.8/80 mm lens, the range 1 m to  $\infty$  is spanned by a shift of only 7.5 mm in the bellows. The remaining 42.5 mm extension is available for close-up photography. The slide rail shows the magnification factors and the exposure value corrections for three lenses (80, 120, and 250 mm). (The exposure corrections are automatically incorporated in the SL 66 E exposure metering system). Precision photography is facilitated by an added millimetre scale.



With the Rolleiflex SL 66 E and SL 66 you can take pictures in the close-up and macro ranges without

extra equipment. For the picture on the left, the lens was mounted in the Retro-position®.





# n, Tilttable Bellows

2. Close-up and macro photography are possible without accessories, especially with the lens mounted in the Retro-position®.

3. The depth of field can be extended (the „Scheimpflug effect“) by tilting the bellows.

## Unique among medium-format SLR cameras: extended depth of field by applying the Scheimpflug\* principle.

On the Rolleiflex SL 66 E and SL 66, the bellows can be tilted vertically by up to 8° in relation to the film plane. This allows a considerable increase in the depth of field without stopping the lens down – e.g. when poor lighting conditions require a large aperture, or when the spatial depth is greater than the depth of field obtainable with the smallest aperture.

The Scheimpflug principle states that if the planes of the subject, lens and film converge, the resulting image will be sharp overall.

The Scheimpflug principle is particularly useful in photographing vertical subject surfaces, e.g. in architectural photography (for building frontages, facades and walls), in art history (for frescoes, ceiling paintings etc.), and in advertising. Subjects that are not flat can be brought into sharp focus by additional stopping down.



\* Theodor Scheimpflug (1865–1911)

With full aperture and an 8° tilt of the 2.8/80 mm lens, it is possible to form a sharp image of an approximately flat subject viewed at an angle between

about 0.87 m and ∞ (without the lens tilt the depth of field obtainable with full aperture would only be from 40 m to ∞).



# Peak Performance

Even the best camera system is only as effective and versatile as the range of lenses it uses. This is why the new generation of lenses from Carl Zeiss, Oberkochen, represent everything that "made in Germany" precision workmanship has come to mean. These are the lenses for the















# Seen Objectively

Rolleiflex SL 66 system. With nine different focal lengths, they open up a whole new world of creative photography.

Twelve different lenses with focal lengths from 30 to 1 000 mm are available. The multicoating on these Rollei HFT® lenses cuts out reflections,

increases the amount of light reaching the film and heightens contrast and colour brilliance in the image. Thus, these lenses can rightly be designated HFT lenses (HFT = High Fidelity Transfer, for optimum image reproduction).

## Zeiss Lenses for the Rolleiflex SL 66 E and SL 66

Lens	Apartung-range	Angle off view	Construction	Maximum length	Subject distance (to lens)	Maximum diameter	Weight approx
 F-Distagon f 3,5/30 mm	3,5-22	180°	8 elements 7 components	115,5 mm	∞ - 0 cm	108 mm	1130 g
 Distagon f 4/40 mm	4-32	88°	10 elements 9 components	125 mm	∞ - 0,6 cm	104 mm	1218 g
 Distagon f 4/50 mm	4-32	75°	7 elements 7 components	94 mm	∞ - 5 cm	79 mm	555 g
 Planar f 2,8/80 mm	2,8-22	52°	7 elements 5 components	63 mm	∞ - 16 cm	79 mm	300 g
 S-Planar f 5,6/120 mm Special reproductions	5,6-45	36°	6 elements 4 components	91 mm	∞ - 35 cm	79 mm	435 g
 Sonnar f 4/150 mm	4-32	29°	5 elements 3 components	94,5 mm	∞ - 60 cm	79 mm	545 g
 Sonnar f 5,6/250 mm	5,6-45	18°	4 elements 3 components	143 mm	∞ - 1,53 m	79 mm	665 g
 Tele-Tessar f 5,6/500 mm	5,6-45	9°	6 elements 5 components	308 mm	∞ - 6 m	100 mm	1640 g
 Distagon f 4/80 mm with leaf shutter	4-32	52°	5 elements 5 components	86 mm	∞ - 16 cm	82 mm	638 g
 Sonnar f 4/150 mm with leaf shutter	4-32	29°	5 elements 3 components	94 mm	∞ - 60 cm	82 mm	705 g
 Tele-Tessar f 8/1000 mm	8-64	4,5°	4 elements 4 components	766 mm	∞ - 21 m	218 mm	8740 g
 Mirotar f 5,6/1000 mm	5,6-8-11*)	4,5°	5 elements 5 components	407 mm	∞ - 22 m	250 mm	16500 g

All the lenses are made by Carl Zeiss, Oberkochen, W. Germany or by Rollei Fototechnic GmbH under licence from Carl Zeiss.

Registered trade mark: Rollei HFT. The lenses fit both the Rolleiflex SL 66 and the SL 66 E. SL 66 lenses can be converted by Rollei Fototechnic GmbH

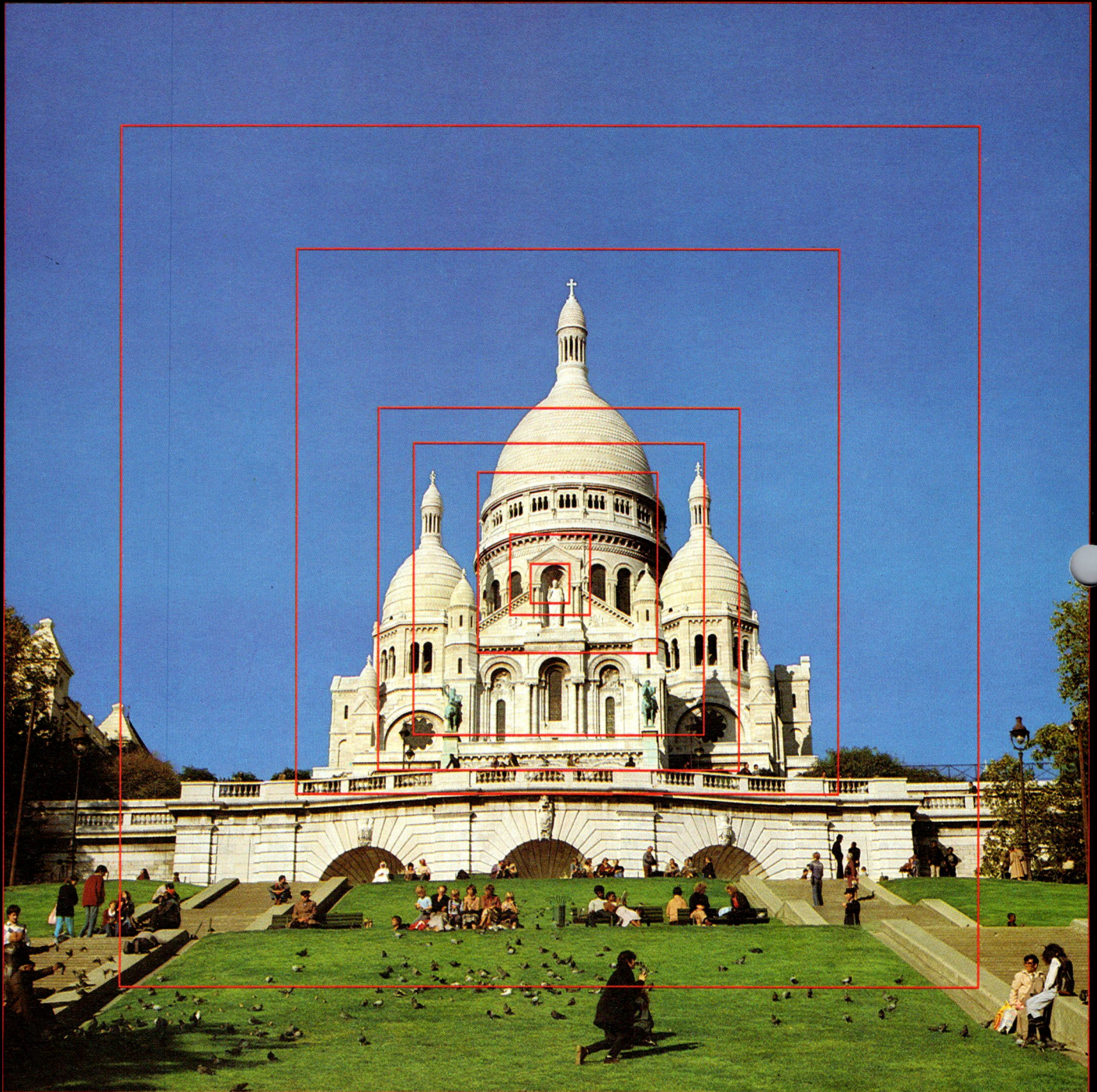
to provide the additional functions of the SL 66 E. N.B. This does not apply to lenses with 500 mm or 1 000 mm focal length.

\*) Filter turret with grey filters

Available from Autumn 1983: a tele-converter for the SL 66 E and SL 66 to double the focal length of the lenses.



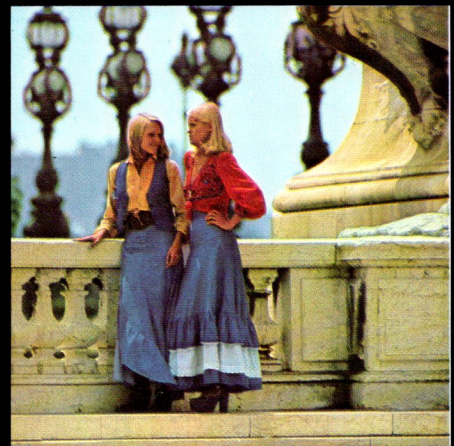
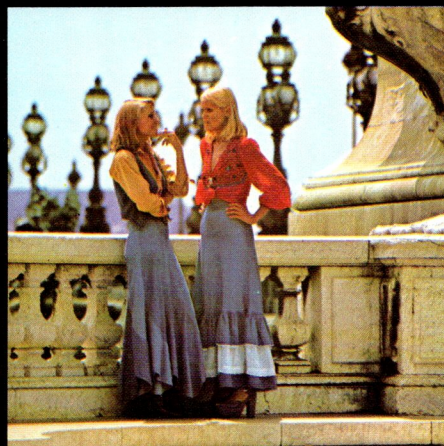
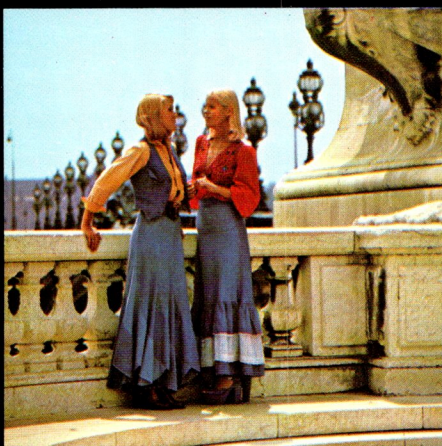
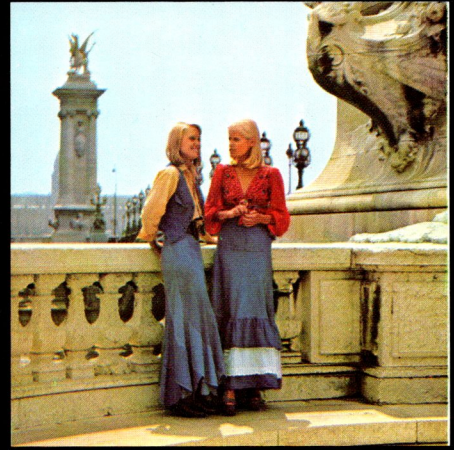
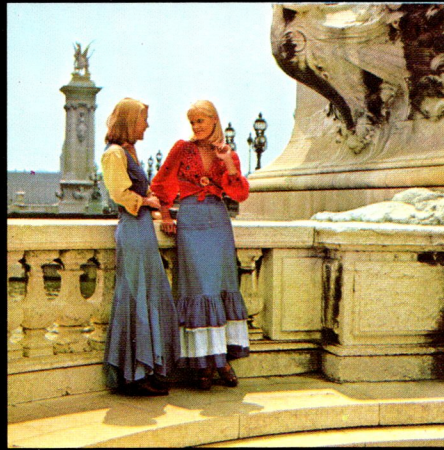
Focal lengths compared: from the same camera position, a change of lens changes the image.



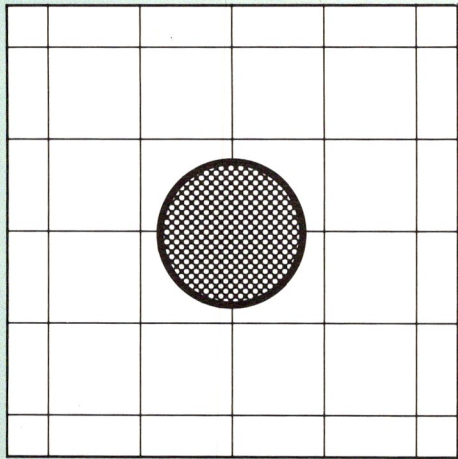
# perspectives

Perspectives compared: this comparison shows the manifold opportunities for creating a relationship between the main subject and the background with the Rolleiflex range of lenses.

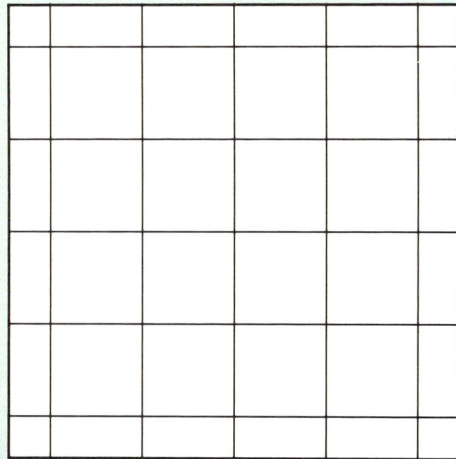
In this set of pictures, the main subject stays the same size, while its relationship to the background alters as the lens focal length is changed.



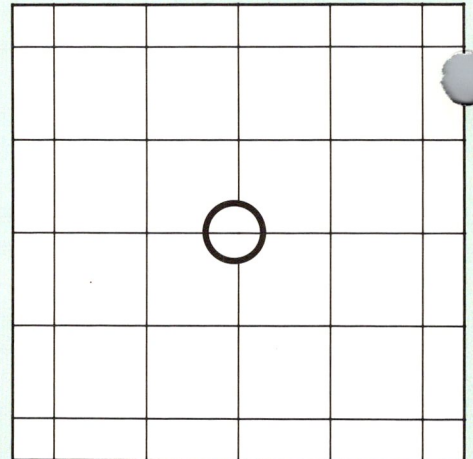
# The Right Focusing Aid for Every Job



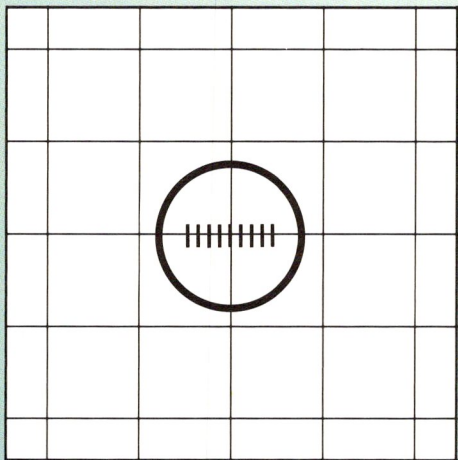
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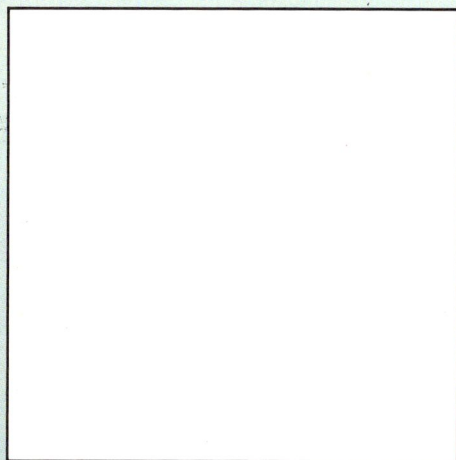
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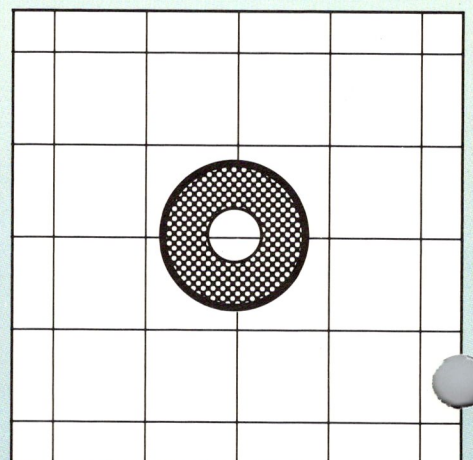
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4



5



6

**1** Clear focusing screen with central patterned rangefinder area. With "instant sharpness" – swift transition from a flickering outline to full clarity of detail. Trouble-free focusing, even in poor lighting conditions. The screen has an engraved line grid.

**2** Clear focusing screen without aids. Used mainly in portrait work. This screen has no central focusing aid (a circle), as such a feature would be disturbing in portrait photography. Engraved line grid.

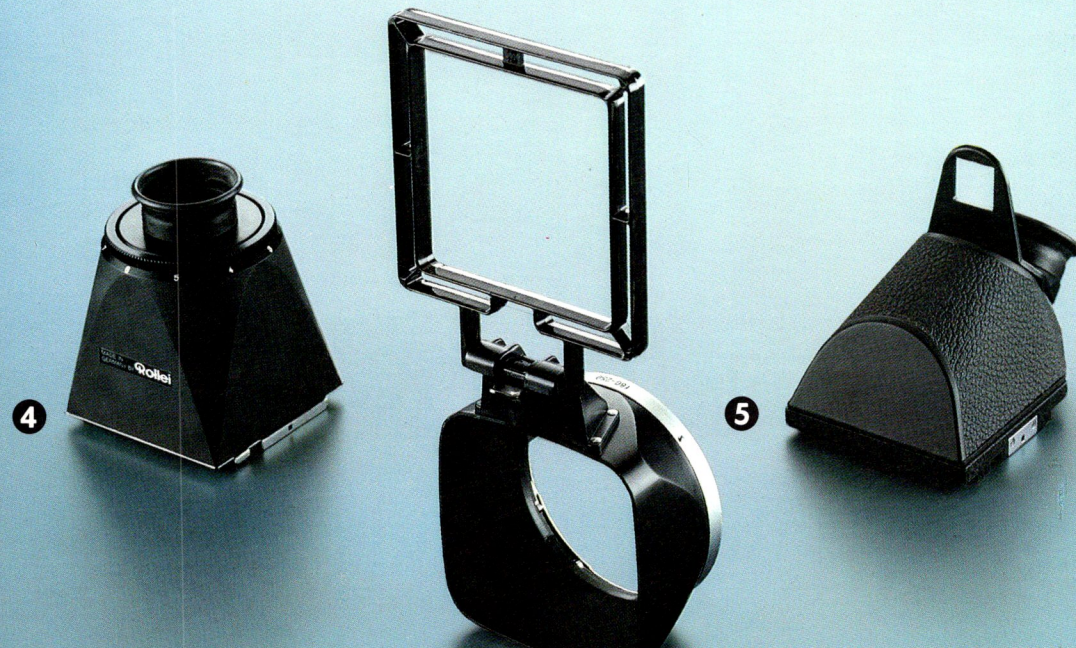
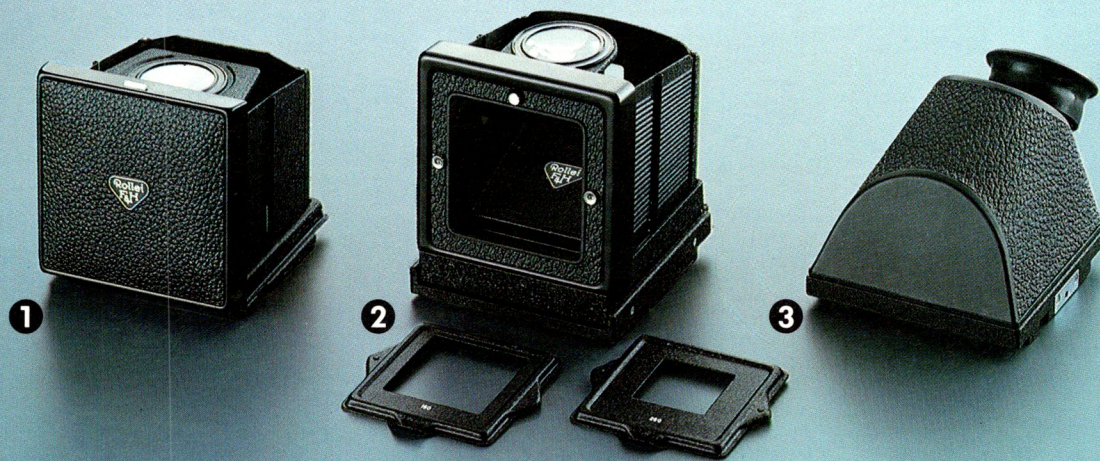
**3** Clear focusing screen with central rangefinder wedge. Extremely useful for rapid and precise focusing on vertical image lines, e.g. in architectural photography. The screen has an engraved line grid.

**4** Clear focusing screen with central clear spot. Specially developed for close-up work and macrophotography. With cross-hairs and a millimetre scale in the clear spot. The screen has an engraved line grid.

**5** Ground glass screen. Finely ground glass surface without additional focusing aids. Ideal for precision monitoring of sharpness in close-up work and macrophotography.

**6** Clear focusing screen with central rangefinder pattern and wedge for maximum precision focusing with vertical lines. Focusing criterion: flicker-free picture.

# The Ideal View for Every Job



**1** Standard folding viewing head. For a downward view of the screen image, with interchangeable magnifier (+3 to -3 dioptries): 2.5x magnification.

**2** Folding viewing head with framefinder. For a downward view of the screen image, with supplementary framefinder for direct viewing. The frame is designed to match the 80 mm lens and can be adapted for 150 mm and 250 mm focal

lengths by removing the hood of the viewing head and fitting masks. The magnifiers are interchangeable (from +3 to -3 dioptries). Their magnification is 2.5x.

**3** Rotating prism head. With 45° eyepiece. The image is shown upright and the right way round. On rotation, the head engages in four positions at 90° to each other. The eyecup can be removed.

**4** Rigid magnifying head. Increases image contrast. Achromatic magnifying lens with 2.5x magnification. Eyepiece correction from +0.6 to -2.1 dioptries. Removable eyecup.

**5** Prism head for sports photography with dioptre correction and two interchangeable framefinders on a special lens hood.

# The Right Magazine for Every Job



**1 2** Universal 120/220 magazine for photographs in the 6x6 format. Film sensor for stopping the film automatically at frame 1. Counter for 12 or 24 exposures, "film loaded" indicator. Storage compartment for magazine drawslide. For better monitoring, the magazine release knob can be heard and seen to spring out again after the last frame. The magazine back is double-latched to prevent accidental opening. An additional button allows the film to be wound up before it reaches the end.

**3 4** Universal 120/220 magazine for photographs in 4.5x6 horizontal format (and 4x4). Apart from the format and picture counter (16 or 32 exposures), the specification is the same as for the 6x6 universal magazine. Important when using the 4x4 format: the slides fit into 5x5 frames as "Superslides". Viewfinder masks are supplied with them.

**5** Cassette adapter which makes it possible to use sheet film and plates in the 6.5x9 format. Fitted with easy-to-change individual cassettes.

**6** Sheet film cassette. Designed for both sheet film and plates. Gives a 6x6 image on 6.5x9 material.

**7** Ground glass screen cassette. Interchangeable with the sheet film cassette for focusing directly on the film plane.

**8** Polaroid magazine. For eight 6x6 photographs on 8.3x10.8 cm Polaroid pack film, types 107, 108, 667, 668 and 665.



# Unique: TTL-flash metering

The Rolleiflex SL 66 E has a built-in automatic flash system: through-the-lens flash exposure metering. This is a unique feature in medium-format SLR cameras.

For optimum flash exposure metering, the light measurement is taken over by a built-in sensor which registers the light reflected from the film surface during the exposure. The special flash control electronics (mounted in the external C70 flash adapter) meters out the required amount of light for the particular subject.

The Rolleiflex SL 66 E works automatically in conjunction with the Metz 45 CT 5 and 60 CT 2 electronic flash units. In this way, highly accurate exposure metering is possible, especially in

macro work, where measurement and flash light distribution can often cause problems. Even time-increase factors for extension tubes etc. are automatically incorporated in the measurement. With the built-in flash exposure meter you can react quickly and successfully to all lighting conditions – your photographs will always come out right.



# Mastery i

Close-up photography is becoming more and more popular. In scientific research (e. g. biology and medicine), macrophotography plays an important part in the actual research work and in documentation.

All the extra equipment needed for macropho-



## Focusing rack

The focusing rack makes it easier to work from a tripod. The distance from the subject can be continuously and smoothly altered. The rack facilitates backward and forward movement in still life photography, in copying work and in macro- and micro-photography. The rack is a rigid twin-rail design with an operational track length of 16 cm.

## Extension bellows

The extension bellows carries on where the built-in camera bellows stops. The maximum extension is 25 cm. Combined with the built-in bellows on the Rolleiflex SL 66 E or SL 66, this accessory gives over 30 cm total extension.



## Slide copying attachment

Two slide copying attachments are available for making duplicate slides and cropped enlargements. They are designed for 7x7 slides (6x6 to 4.5x6 cm) and 5x5 slides (12x17 to 24x36 mm and 4x4 cm). The appropriate copying attachment is used in conjunction with the extension bellows. With internal flash metering, the Rolleiflex SL 66 E is particularly suitable for copying slides.

## Extension tubes

The extension tubes for the Rolleiflex SL 66 E and SL 66 are 40 mm and 80 mm long respectively. The two tubes can be combined.

## Universal extension tube set

By means of a twin-cable release, this accessory preserves the automatic aperture feature of the lenses, even with the Retro-mounting® or when using the ex-

tension tubes or the extension bellows. The set consists of four parts that can be combined in pairs: the lens adapter ring, the 40 mm or 80 mm extensions and an adapter ring for using filters and lens hoods in the Retro-mounting®.

## Special lenses

Magnifying lenses for extreme macrophotography are available from several manufacturers (e. g. Zeiss and Leitz). With the Zeiss Luminars, for example, combined with extension tubes and the extension bellows, you can obtain an image scale of more than 20:1.

# n Close-Up

ography is available with the SL 66 E and SL 66. This includes extension tubes, focusing racks, an extension bellows with supplementary parts and a slide copying attachment.

## Accessories for the extension bellows

Macro stage with diffusing screen for photography by direct, transmitted or oblique light.  
Fine focusing control for macro stage and extension bellows. This accessory permits precise, minute corrections to the plane of sharp focus.  
Two vibration dampers prevent vibration during focusing and during photography with long bellows extensions.



## Luminar adapter

Available with microscope thread 0.8"x1/36", for focal lengths from 16 to 63 mm.

## Microscope attachment

For mounting the camera on a microscope draw tube.

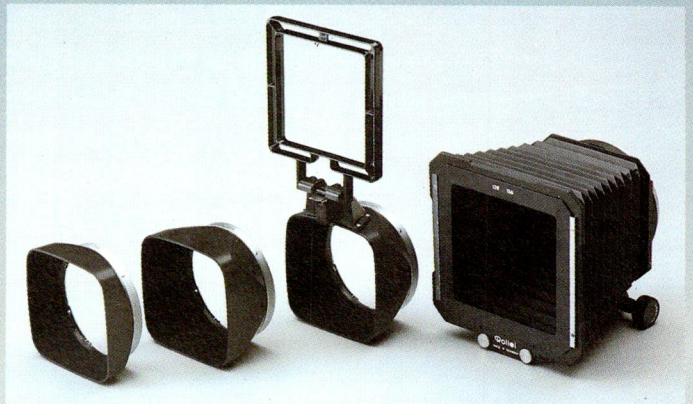
## Lens adapter

(without lens screw thread) to enable other lenses of any desired make to be used. Maximum transmission aperture: 58 mm.



# Filters, Soft-Focus, Lens Hoods

The filters have multiple bayonet mountings, size VI, and can be combined with lens hoods.



Filters for black and white photography: yellow, green, orange, light red, infrared and UV.

Filters for colour photography: colour conversion filter R1.5, to eliminate colour shifts, especially blue tint.

Special-size filters – available for the extreme wide-angle f4/40 mm lens (mid-yellow) and the f5.6/500 mm telephoto lens (mid-yellow).

Rolleipol circular polarizing filter: to cut out non-metallic reflections (e.g. from water, glass and carnished surfaces). It fits all lenses from 50 to 250 mm focal length. Zeiss Softar I and II soft-focus attachments for stressing highlights in still life photography and for a soft effect in portrait photography.

Filter foil holder: for use with the large selection of economy filter foils available (e.g. Kodak Wratten or Agfa AK filters).

Normal lens hood: suitable for six lenses from 80 to 250 mm.

Wide-angle lens hood for Distagon 50 mm.

Special lens hood: with holder for interchangeable framefinder (in conjunction with the Rolleiflex prism head [see page 15]).

A compendium for different focal lengths is available for special photographic situations.

## Handgrip and Quick Tripod Coupling

The handgrip for the Rolleiflex SL 66 E and SL 66 makes the camera easier to operate: with the left hand you hold the camera and operate the focusing knob and cable-release, while the right hand

works the shutter control and fast-wind crank.

The handgrip is easily connected to the camera body by means of the quick-release coupling and is fitted with a universal accessory shoe (e.g. for a flash unit) and with a tripod bush with 1/4" and 3/8" thread.



### Quick tripod coupling

This is permanently screwed on to the tripod, allowing the camera to be attached and removed rapidly. The camera can also be screwed directly to the tripod, using the 3/8" bush.



# Cases and containers



## Cases and containers Ever-ready case

Made of solid black leather, suitable for the normal f2.8/80 mm lens.

## Soft Leather bag

for the camera fitted with lenses of 50 to 150 mm focal length.

## Leather lens cases

for 40 mm–500 mm lenses.

## Aluminium combination case

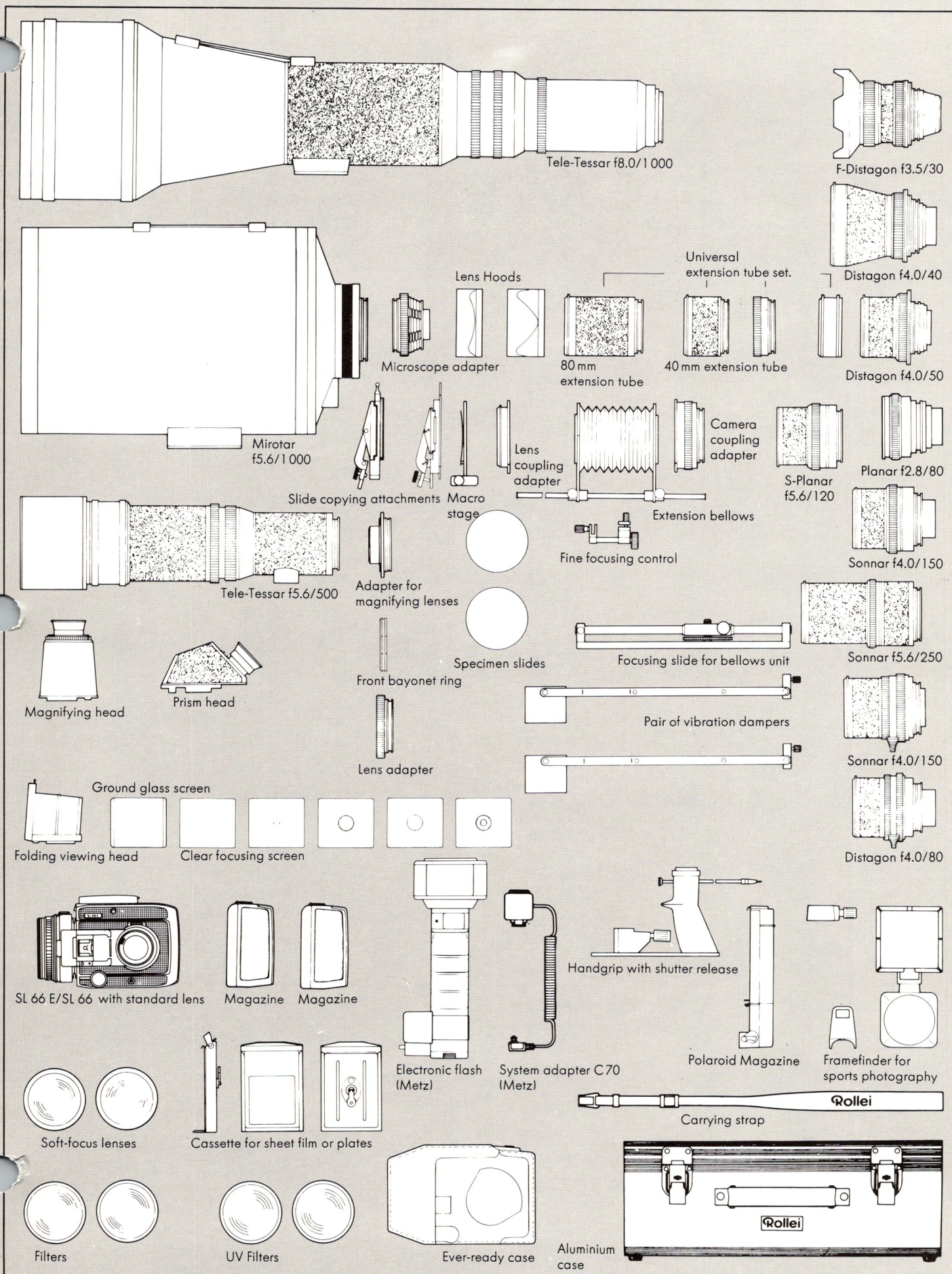
Protected from dust and damp by rubber seals. The dividers of the padded com-

partments are movable: the space can be organized to suit the user's own set of equipment.

# Technology. The Rolleiflex SL 66 E and SL 66

	SL 66 E	SL 66
Type	Single-lens reflex camera for 6 x 6 format with built-in exposure metering and TTL flash metering.	Single-lens reflex camera for 6 x 6 format.
Body	Black	Black/chrome
Built-in bellows	Vertically tiltable by $\pm 8^\circ$ ; 50 mm extension, with scales for magnification factor and exposure correction.	
Extended depth	(according to the Scheimpflug principle) by tilting the bellows, self-locking in the central and two end positions.	
Shutter	Vertical-travel focal-plane shutter, 1-1/1 000s and B.	
Exposure	TTL exposure metering, centre-weighted integral measurement by three silicon photocells. Exposure indication in the viewfinder by means of five light-emitting diodes, exposure error warning by LED indicator. Exposure adjustment switch for -1.5 to +1.5 EV steps. Multiple exposure facility.	With external exposure meter.  Multiple exposure facility
Flash photography	Synchronization: 1/30 second X-connection for electronic flash and studio flash equipment up to 1/30 second. For shorter times, lenses with leaf shutters are available. Through-the-lens flash measurement when using automatic flash equipment. Hot shoe with central contact on the left-hand side of the camera.	Synchronization: 1/30 second. X-connection for electronic flash and studio flash equipment up to 1/30 second. For shorter times, lenses with leaf shutters are available. Hot shoe on the left-hand side of the camera.
Viewfinder systems	Folding viewing head with magnifier (2.5 times), interchangeable with rigid magnifying head and prism head; pneumatically damped swinging mirror with prerelease.	
Lenses	Zeiss lenses with 30 mm - 1 000 mm focal length, some usable in Retromounting; <sup>®</sup> special lenses with built-in leaf shutter (80 and 150 mm).	
Dimensions	H x W x L: 118 x 150 x 173 mm with f2.8/80 mm lens	118 x 150 x 175 mm with f2.8/80 mm lens.
Weight	approx. 1900 g with lens	approx. 1930 g with lens.

# The Rollei System and Accessories

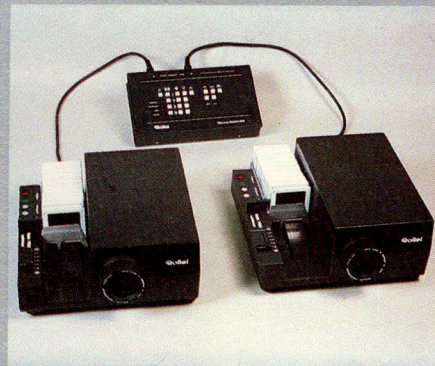


Other accessories: ring flash for special photography and underwater housing (information available).

The ideal companion to the Rolleiflex SL 66 E and SL 66: The Rollei P 66 S automatic slide projector. With interchangeable lenses from 110 mm to 400 mm focal length.

Autofocus for automatic sharpness adjustment, 24 V/250 W halogen lamp, continuous control

of lamp brightness, heat protection filter, all-metal housing, remote operation, timer. Connection for infrared remote operation. Perfect projection with dissolve using two Rollei P 66 S projectors connected to the MD 216 dissolve control unit.



Rollei Fototechnic GmbH have set themselves the task of producing first-class photographic equipment for professional photographers and demanding amateurs. We meet their high standards with top-performance cameras from 35 mm cameras to the 6x6 format, with a range

of special quality lenses and accessories and with technically superior slide projectors. Rollei Service guarantees that you can make use of all the advantages of the Rollei range, wherever you are.

**Rollei**  
fototechnic

