



# Rolleiflex 3003 metric

**35 mm surveying camera  
with built-in grid plate (réseau)  
The revolutionary approach  
to photogrammetry**

**Rollei**  
fototechnic



## The embodiment of versatility

At the heart of this professional 35 mm camera system is the Rolleiflex 3003 metric. With its interchangeable magazine facility and wide range of accessories, this surveying camera opens up completely new areas of application in 35 mm photographic measurement techniques.

- Built-in grid plate (réseau), focusing steps and calibration for accurate and reliable photographic results.

- Zeiss interchangeable fast lenses in focal lengths ranging from 15 to 85 mm to cope with any photogrammetric assignment.

- Twin viewfinder system (telescopic and hood viewfinders) for optimum view of the subject.

- Automatic exposure control for the right exposure in any situation.

- Built-in motorized film transport for fast sequence shooting.

- Use of conventional film material for convenience and economy.

- Interchangeable magazine facility for speedy changes of even partly exposed film without the loss of a single picture.

- Unrestricted use of the system's versatile range of accessories for the most varied applications.





- 35 mm single-lens reflex camera. Built-in grid plate 35/05 (5 × 7 reference crosses) including high-precision determination of each reference cross position with log. With two integral viewfinder systems and built-in motor drive. Highly integrated analogue/digital control circuits, central control and monitoring of all measurement and drive functions.
- Standard version as camera body without lens. With interchangeable magazine 36/72 metric, loop hand-grip. NiCd power pack, charger, shoulder strap, body cap and protective case.
- 24 × 36 mm picture format.
- Film types: type 135 35 mm film cartridges for 12, 20, 24, 36 or 72 exposures, sheet film and bulk film stock.
- Magazine setting of film speed: 15–39 DIN (25–6400 ASA).
- Through-the-lens exposure metering, Rollei selective metering using open or working aperture. Measuring field shown on the viewfinder image. Exposure correction from –1 to +2 EV intervals. Sensor: two silicon photodiodes.
- Measurement range: exposure values 1–18 for 21 DIN/100 ASA film with aperture 1 : 1.4.
- Vertical-running metal-blind focal-plane shutter. Electronically controlled. Automatic selection of shutter speed with aperture priority, or manual exposure balance (follow-up system). Shutter speeds: 1/2000 sec to 16 sec, automatic or manual setting, time exposure B, flash synchronization speed 1/100 sec to 16 sec, X = 1/100 sec.
- Electronically controlled automatic release. Three microswitches, one on each side and one on the top of the camera.
- Built-in high performance motor, single or continuous release at about 3 frames per second.
- Multiple exposure by means of a switch on the magazine.
- Damped swinging mirror, hard coated.
- Two built-in viewfinders:
  - Telescopic viewfinder with rotatable eyepiece for dioptre adjustment, rubber eyecup
  - Hood with interchangeable viewfinder attachments. Seven interchangeable focusing screens.
- Flash synchronization 1/100 sec, accessory shoe with synchronizing centre contact and contacts for automatic flash units with Rollei SCA 356 or Metz C 70 special adapters.
- TTL flash metering in the film plane by means of additional silicon photodiodes.
- Quick-change power pack with soldered-in NiCd batteries. External electrical supply connection. Charger for normal charging rate.
- Interchangeable magazines for 12-, 20-, 24-, 36- or 72- exposure films and sheet film. Facility for single and multiple exposures. Film speed setting from 15 to 39 DIN (25 to 6400 ASA). Frame counter. Polaroid magazine for Polaroid pack film. Long-film magazine for 250 exposures.
- Multiple socket for electrical remote release cable, timer, infra-red remote control, 1/4" tripod bush.
- Carl Zeiss metric lenses
  - Minimum resolution 25 line pairs/mm into extreme corners of the picture using open aperture
  - Position of the principal point can be reproduced within 50 μm
  - Camera calibration with log of radial-symmetrical lens distortion
  - Standard stop grooves for focusing.
- Distagon f3.5/15 mm metric, 13 elements, 12 groups, aperture range 3.5–22, angle of view 110°, weight 620 g.
- Distagon f4/18 mm metric, 10 elements, 9 groups, aperture range 4–22, angle of view 100°, weight 350 g.
- Distagon f2/28 mm metric, 9 elements, 8 groups, floating elements, aperture range 2–22, angle of view 74°, weight 530 g.
- Distagon f1.4/35 mm metric, 9 elements, 8 groups, floating elements, aperture range 1.4–16, angle of view 61°, weight 471 g.
- Planar f1.4/50 mm metric, 7 elements, 6 groups, aperture range 1.4–16, angle of view 46°, weight 230 g.
- Makro-Planar f2.8/60 mm metric, 6 elements, 4 groups, aperture range 2.8–22, angle of view 39°, weight 570 g.
- Planar f1.4/85 mm metric, 6 elements, 5 groups, aperture range 1.4–16, angle of view 29°, weight 537 g.

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