

Bolex 564 XL AF Sound

with Auto Focus device
for automatic focusing
before and during filming



Auto Focus device an extra ace up your sleeve

The Auto Focus device for automatic focusing before and during filming does not replace the rangefinder in the viewfinder but complements it, offering the movie maker new possibilities.

● **The main advantage of the Auto Focus: the speed of focusing** (approximately 1 second), ideal whenever it is important to start the camera as quickly as possible, or to shift abruptly from a subject in the distance to another nearby, or vice versa.

● **Other advantages of the Auto Focus:**

- **the lens "pursues" the subject** which thus never leaves the zone of sharpness (depth of field) even if it comes closer then rapidly moves away;
- **as one no longer has to worry about focusing, it becomes possible to film more freely**, concentrating solely on the subject (framing, filming angle, lighting and other effects, etc.);
- **focusing precision becomes independent...**

**of the eyepiece setting;
of the operator's keenness of sight;
of the operator's filming experience** (even a child can produce sharp pictures if lent the camera).

Mode of operation designed to ensure maximum efficiency

Possibility of preselecting the automatic focus before beginning to film: for panning distant subjects or for filming landscapes.

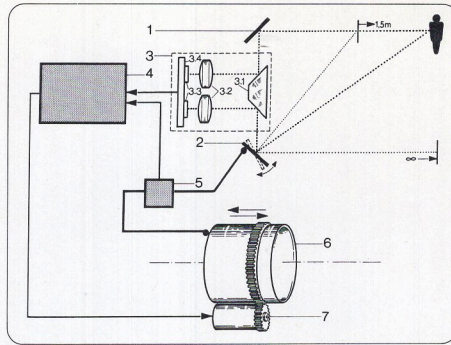
Possibility of choosing a slow reaction time with rapid first focusing: whenever one wants to follow the movement of a subject in the middle distance.

Possibility of choosing a rapid reaction time: used in exceptional cases when the subject is moving rapidly along the filming line of view.

Main specifications

- Distance of operation: from 1.5 m to 10 m; as soon as the subject moves further away, the lens is automatically set to infinity.
- Field of measurement: corresponding to a focal length of about 40 mm.
- Operating limits:
 - at full aperture: from $f = 8$ mm to $f = 32$ mm;
 - at the focal length of 48 mm: above the diaphragm opening of $f/4$.
- Limits of effectiveness:
 - insufficient contrast
 - subject with horizontal structures.

Principle of operation



Two mirrors (1) and (2) form through the prism (3.1) and the lens elements (3.2) a distinct image of the subject on each of the two groups of 4 light-sensitive elements (3.3) of the opto-electronic module (3).

The mirror (1) is fixed while the mirror (2) continually sweeps the subject horizontally from 1.5 m to infinity with a frequency of about 10 cycles. Whenever the image reflected by the moving mirror (2) coincides perfectly with the one reflected by the fixed mirror (1), i.e. whenever the two images occupy exactly the same position on each of the 2 groups of 4 light-sensitive elements (3.3) of the module (3), the integrated circuit (3.4) supplies a current surge which corresponds to the position of the moving mirror (2) for which the focus is correct.

This information is despatched to the control circuit (4) which compares it with that given by the lens position detector (5) in order to power, in the desired direction, the servo-motor (7) responsible for bringing the lens (6) into the correct position.

Other advantages and technical features of the Bolex 564 XL AF Sound

As far as its other advantages and technical features are concerned, the Bolex 564 XL AF Sound is identical to the Bolex 563 XL Sound Macro-Zoom (except where macro filming and the use of the Aspheron accessory are concerned). Here is a brief summary of its features:

- no more breaks in sound between two sequences
- all kinds of picture and sound transitions including dissolves
- microphone plugs into camera body
- two microphone inputs with automatic mixing of the two sound elements
- reflex viewfinder with numerous indications and signals
- universal setting
- 8-48 mm (6 x zoom) $f/1.2$ lens; the $f/1.2$ aperture makes it possible to film in very poor lighting conditions without the need for auxiliary lighting (XL)
- power zoom with two speeds
- filming speeds of 18, 24 and 36 frames per second
- built-in timer
- automatic or manual adjustment of the recording level
- checking the recording
- manual or automatic diaphragm setting (TTL measurement)
- remote control either from the microphone or by means of an accessory cable (supplied separately)
- synchro-flash socket
- shutter opening to 220°
- counter with mobile scale adjustable to any starting point
- possibility of using Super 8 silent cartridges, etc.

For detailed information, please refer to the existing Bolex 583 and 563 XL Sound Macro-Zoom brochure.

Quality and reliability

Bolex products are manufactured with utmost care and tested thoroughly before leaving the factory. They therefore satisfy the highest standards of precision and superior quality for which the name of Bolex is world renowned. In choosing a Bolex, you can be assured of owning a fully reliable camera. Thanks to its international organization, Bolex offers you impeccable after-sales service all over the world; you can entrust your camera with complete confidence to any Bolex distributor, most of whom have their own highly skilled technicians specially trained in Switzerland.



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