

Technical data BALCAN-AF

Dimension	110 x 80 x 150 mm
Weight	430 g
Minimum extension	50 mm
Maximum extension	130 mm
Sliding block adjustment	65 mm



Recommended accessories

- NOVOFLEX **CASTEL-COP-DIGI** slide duplicator. An ideal solution that allows for fast and easy digitalization of your originals, from 35 mm up to 6 x 7 cm medium format. Your bellows device has a guide for the rods of the slide duplicator in the front area. These are fixed with the lateral retaining screw (12).
- NOVOFLEX **CANLEI-AF** adapter for lenses with 39 mm Leica thread.
- Automatic reverse adapter NOVOFLEX **EOS-RETRO** to mount a Canon EF lens in the reverse position on the bellows unit. All electronic functions are transmitted. Recommended for focal lengths below 35mm.



Information

For more information, advice and tips concerning our products contact your photo dealer, the distributor of NOVOFLEX products in your country (have a look at "Where to buy" section at our website to find your distributor) or visit our website: <http://www.novoflex.com>

For personal advice about possible accessories which is suitable for your NOVOFLEX product please contact the following phone number or send us an E-mail.

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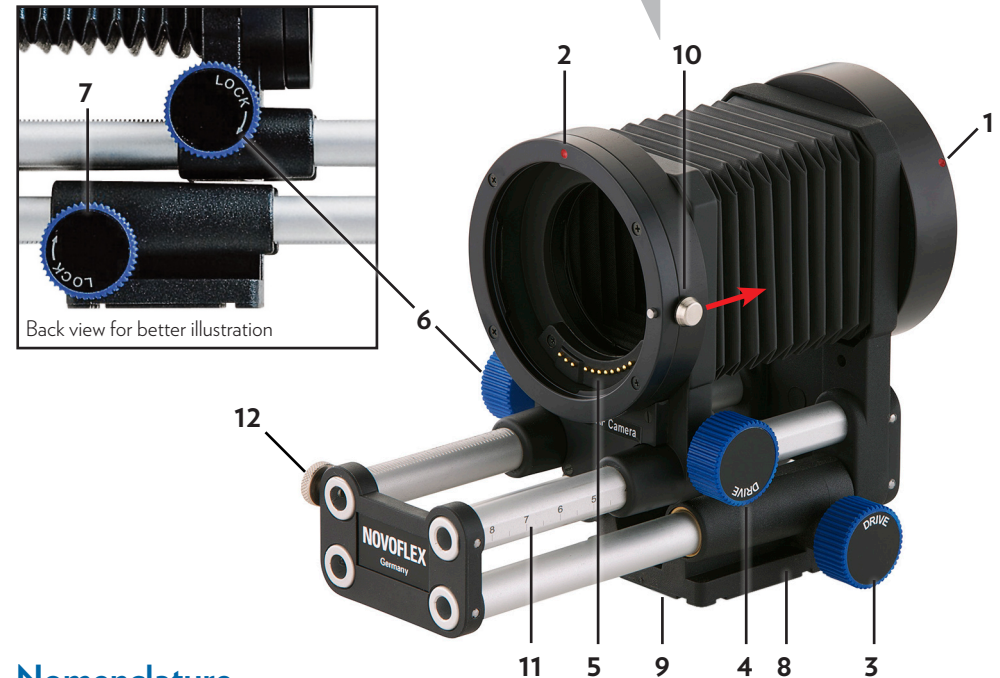
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Automatic Bellows for Canon EOS

USER MANUAL



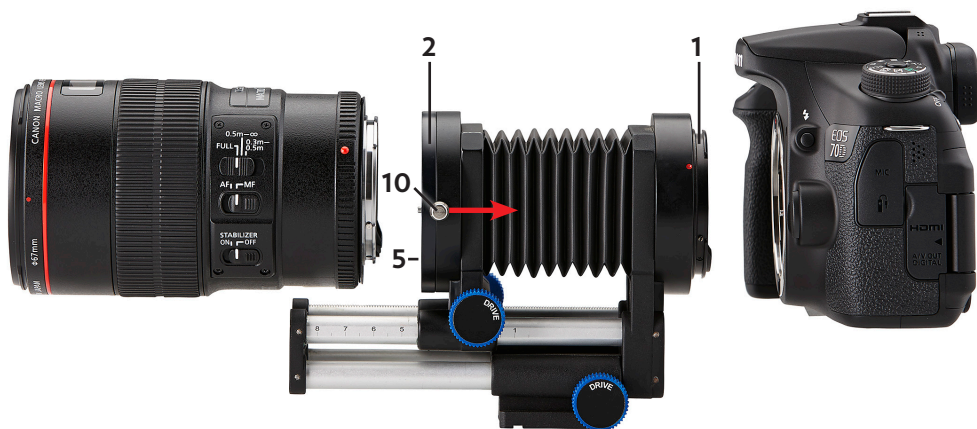
Nomenclature

1	Camera coupling	7	Locking knob - sliding block
2	Lens coupling	8	Sliding block
3	Driving knob - sliding block	9	Tripod connector 1/4"
4	Driving knob - bellows	10	Unlocking knob lens
5	Electronic contact strip	11	Bellows extension scale
6	Locking knob - bellows	12	Guide and retaining screw

Product description

The automatic bellows BALCAN-AF enables Canon EOS photographers to penetrate the near and macro range while retaining all the control functions of their camera. All electronic functions and information are transferred between the camera and the lens.

- Suitable for all Canon EOS system cameras.
- Suitable for all EF / EF-S lenses (max. diameter lens: 80mm)



Belows and lens coupling:

- The automatic bellows unit BALCAN-AF has a Canon camera connector (1) on one side and a lens connector (2) on the other side, so the camera and lens can be connected directly to the bellows in the usual way.
- Always keep the contact strip (5) clean. This ensures a perfect data transfer between camera and lens.
- To unlock the lens, push the knob (10) in the direction of the camera.

Operation

- To adjust the bellows extension and the adjustment slide, use the driving knobs marked with “DRIVE” (3 and 4, illustration on page 1). The locking knobs (6 and 7) marked “LOCK” on the opposite side can be used to clamp the gearing rod when turned clockwise.
- For close-up and macro shots, the image ratio (magnification) is determined by the length of the bellows extension. The length can be changed with the DRIVE knob (4). The focusing is done by changing the lens-to-object distance. With free hand shots one achieves this by changing the posture. When shooting from the tripod or on a copy stand, this is done by moving the sliding block (8) using the DRIVE knob (3).

- To attach the bellows unit to a tripod, ball head or copy stand, there is a 1/4 “ threaded hole (9) on the bottom of the sliding block (8).
- The exposure increase is already taken into account for cameras with internal measurement (TTL).
- Turn off the autofocus of your camera or lens as it will overdrive in most cases. Focusing in the macro range is usually done by changing the lens-to-object distance, in this case by using the DRIVE knob (3), which moves the sliding block (8).
- The image ratio depends on the focal length of the lens used and the length of the bellows extension. The bellows extension can be read off the engraving (11) of the upper guide rail. Using camera lenses the ratio may be calculated as follows:

$$\text{Image ratio} = \frac{\text{Bellows extension in mm}}{\text{Focal length of the lens in mm}}$$

- The depth of field depends only on the image ratio and the f-stop used. For close-up and macro shots, the depth of field almost always shallow. As a rule of thumb: At aperture 8 and image ratio 1: 1, depth of field extends for about 1mm. Stopping down by 2 stops doubles the depth of field; opening by 2 stops halves the depth of field.
- Some magnifying- and enlarging lenses may be used with a 39mm (Leica) thread. For this purpose, the adapter ring CANLEI-AF is available as an optional accessory.
- The bellows device can be used with most camera lenses of 28-200 mm focal length.

Focusing range

Due to the variety of used cameras and lenses the values listed below may vary.

Focal length	Distance	Image ratio
50 mm	5,5 cm - 10 cm	3:1 - 1:1
100 mm	16,5 cm - 33 cm	1,5:1 - 1:2,5
135 mm	27 cm - 60 cm	1:1 - 1:3
200 mm	70 cm - 130 cm	1:1,5 - 1:4,5
28 mm*	4 cm - 4,8 cm	6,5:1 - 3,5:1
35 mm*	4 cm - 5 cm	5:1 - 3:1

- * Because of short taking distances, use a reverse adapter. For CANON EOS cameras we offer the NOVOFLEX EOS-RETRO reverse adapter, which let you mount the lens in reverse position and all control functions persist.