



**Photographic Lenses
with Automatic
Diaphragm (ASB)
for EXAKTA and EXA**



aus Jena



The lenses reproduced in this brochure certainly will surprise you by their sound workmanship and styling. We can add that the interior - optical performance and technical design - justify the exterior. Each of the lenses, from the ultra-wide-angle lens with an angular field of 93° to the fast 2.8 lens of the long focal length of 180 mm, has excellent imaging properties and thus meets all requirements put to its type. It would mean to carry coals to Newcastle to speak in detail of the performance of the JENA lenses that are wellknown the world over. It may just be mentioned that the uniform illumination of the entire picture area and the complete freedom from distortion again and again meet with approval. The continuously maintained high quality of these lens types, that are produced in large numbers, bears witness to the foremost standard of our research and development activities.

Uniform Colour Reproduction

All of our 35-mm camera lenses have for some time had a uniform, neutral colour reproduction. Thus the varying colour reproduction, that formerly occurred in some cases and lead to a differing colour shade, was corrected. This correction results from a corresponding control when applying the reflex-reducing, wipe-proof surface coating provided for all glass/air surfaces of the lens. Colour photographs with our 35-mm camera lenses, therefore, distinguish themselves by a uniformly natural colour reproduction unless other factors i. e. illumination, development etc. lead to colour forgeries.



FLEKTOGON 4/20 mm Ten-element lens

Angular field 93°

Automatic diaphragm

Iris stops from 4 to 22

Click stop also for intermediate values

Distance setting from ∞ to 0.16 m

Depth of field scale

Screw-in thread for filter, M 77x0.75*)

Overall length 58.8 mm (at ∞)

Maximum diameter 82 mm

Weight approx. 330 g

Super-wide-angle lens with an extremely large angular field for indoor, architectural, and survey photography, and for panoramas.

*) For the FLEKTOGON 4/20 mm we supply the special filter M77W; normal filters M 77 would have a vignetting effect!



Flektogon 4/25 mm

Seven-element lens

Angular field 82°

Automatic diaphragm

Iris stops from 4 to 22

Click stop also for intermediate values

Distance setting from ∞ to 0.2 m

Depth of field scale

Screw-in thread for filter, M 77 x 0.75*)

Overall length 62.3 mm (at ∞)

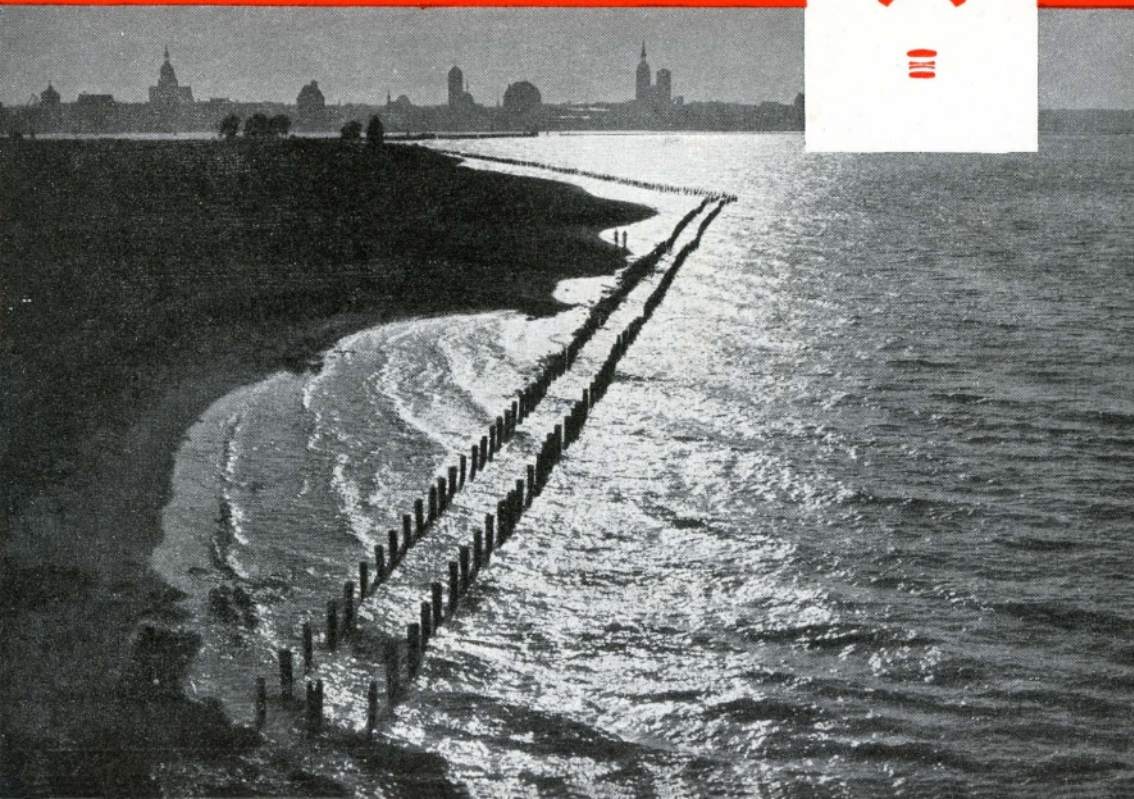
Maximum diameter 82 mm

Weight approx. 300 g



Wide-angle lens with an extremely large angular field for indoor, architectural, and survey photography, and for panoramas.

*) For the FLEKTOGON 4/25 mm we supply the special filter M 77 W; normal filters M 77 would have a vignetting effect!



FLEKTOGON 2.8/35 mm Six-element lens

Angular field 62°
Automatic diaphragm
Iris stops from 2.8 to 22
Click stop also for intermediate values
Automatic diaphragm correction*)
Distance setting from ∞ to 0.18 m**)
Depth of field scale
Screw-in thread for filter, M49 x 0.75***)
Overall length 57.3 mm (at ∞)
Maximum diameter 67.5 mm
Weight approx. 200 g

Fast wide-angle and macro-lens for landscapes, indoor and architectural photography, snaps and news photography as well as close-up work.

*) The iris is automatically so controlled with the distance setting that the ratio of the lens aperture remains constant over the total setting range; thus the exposure time does not require any correction when doing close-up work.

**) The FLEKTOGON 2.8/35 mm has an extremely long extension. Therefore, photography with distances down to 0.18 m (object to film plane) is possible without adapter rings and attachment lenses. At this distance an image scale of 1:2 is obtained.

***) For the FLEKTOGON 2.8/35 mm we supply the filter 51 W (to be slipped on) or M 58 (to be screwed in); the latter is to be used in conjunction with the adapter rings M 49/M 58 or 51/M 58. We furthermore supply a special lens shade M 58 W - to be slipped on or screwed in. Other filters and lens shades would have a vignetting effect!







JENA-T 2.8/50 mm Four-element lens

- Angular field 45°
- Automatic diaphragm
- Iris stops from 2.8 to 22
- Click stop also for intermediate values
- Distance setting from ∞ to 0.5 m
- Depth of field scale
- Screw-in thread for filter, M49 x 0.75
- Overall length 43.8 mm (at ∞)
- Maximum diameter 62.5 mm
- Weight approx. 150 g

Fast standard lens for landscapes, architecture, animal and sports photography, for news and technical photography as well as for snaps and reproduction work.

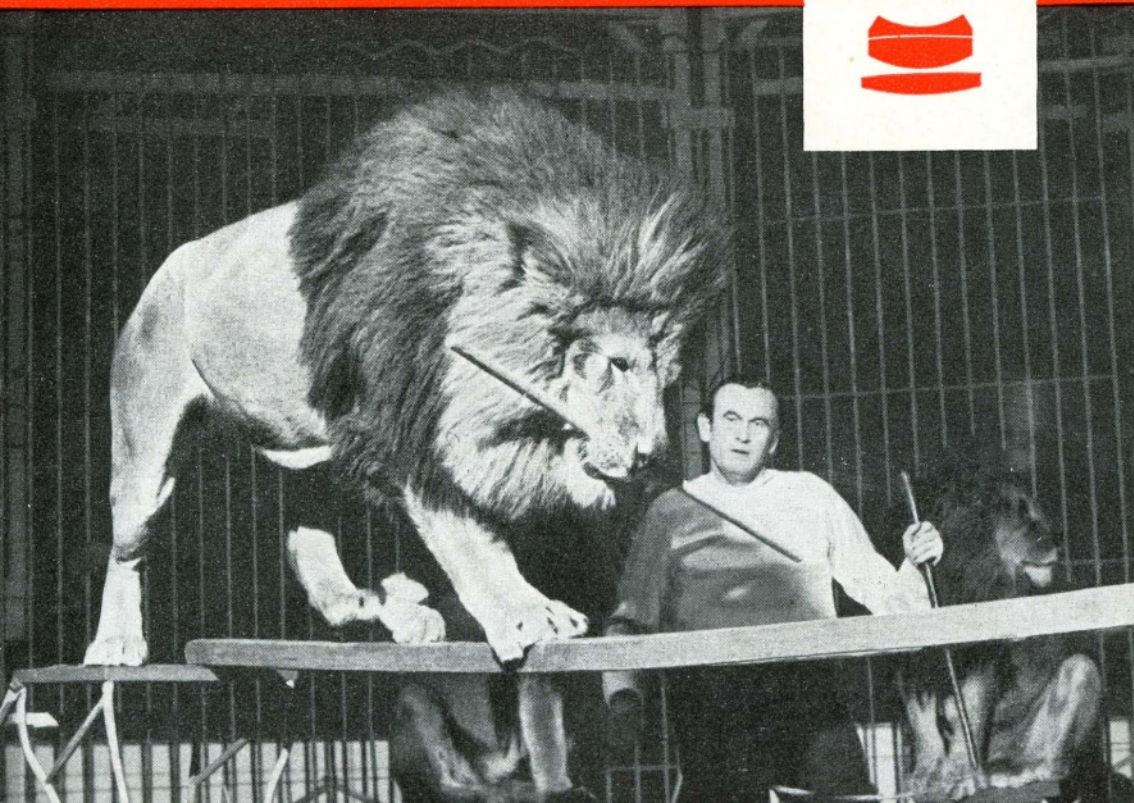


PANCOLAR 2/50 mm Six-element lens

Angular field 45°
Automatic diaphragm
Iris stops from 2 to 22
Click stop also for intermediate values
Distance setting from ∞ to 0.5 m
Automatic depth-of-field indicator
Screw-in thread for filter, M49 x 0.75
Overall length 43.8 mm (at ∞)
Maximum diameter 62.5 mm
Weight approx. 175 g



Extremely fast standard lens for landscapes, architecture, animal and sports photography, theatre and stage photography, for taking snaps and news photographs.





JENA-Bm 2.8/80 mm Five-element lens

Angular field 30°

Automatic diaphragm

Iris stops from 2.8 to 22

Click stop also for intermediate values

Distance setting from ∞ to 0.8 m

Depth of field scale

Screw-in thread for filter, M49 x 0.75

Overall length 63.7 mm (at ∞)

Maximum diameter 65.5 mm

Weight approx. 260 g

Fast, multi-purpose lens of medium-long focal length with good perspective reproduction for sports, animal, landscape and portrait photography.



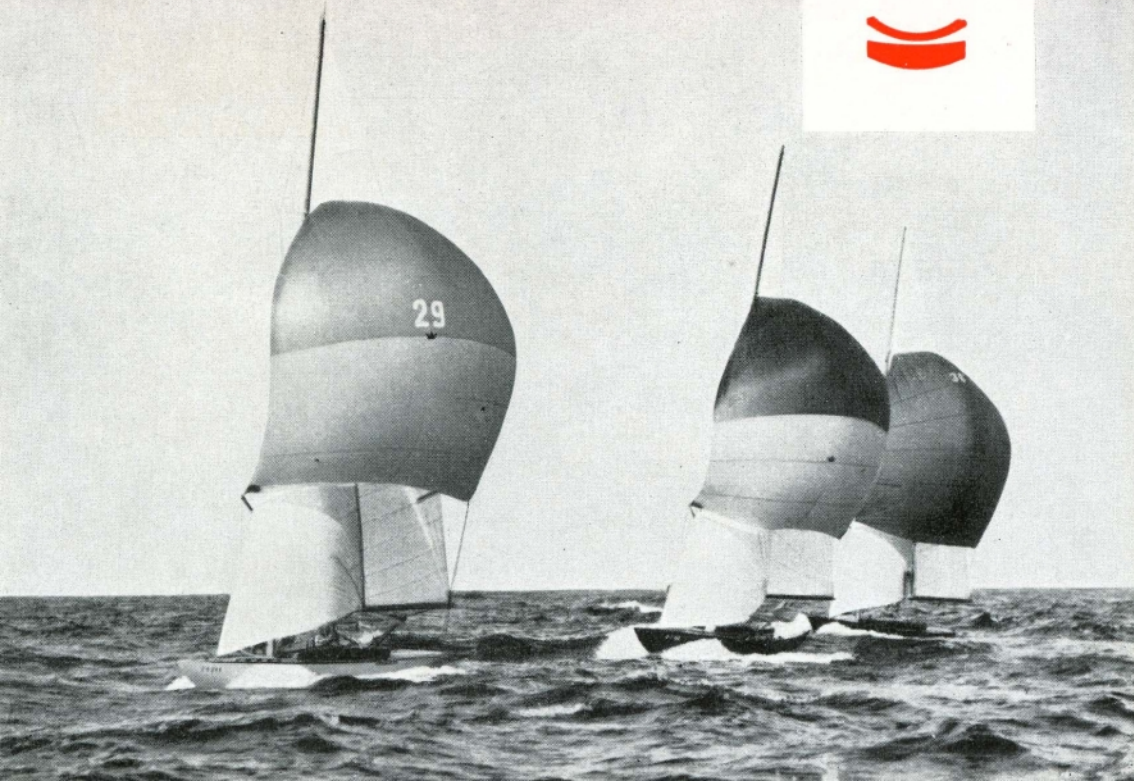
JENA-Bm 2.8/120 mm

Five-element lens

- Angular field 21.5°
- Automatic diaphragm
- Iris stops from 2.8 to 22
- Click stop also for intermediate values
- Distance setting from ∞ to 1.3 m
- Depth of field scale
- Screw-in thread for filter, M67 x 0.75
- Overall length 114 mm (at ∞)
- Maximum diameter 79.5 mm
- Weight approx. 530 g



Fast lens of long focal length for sports, animal, landscape and portrait photography





JENA-S 4/135 mm Four-element lens

Angular field 18.5°
Automatic diaphragm
Iris stops from 4 to 22
Click stop also for intermediate values
Automatic diaphragm correction*)
Distance setting from ∞ to 1 m**)
Depth of field scale
Screw-in thread for filter, M49 x 0.75
Overall length 95.5 mm (at ∞)
Maximum diameter 67.5 mm
Weight approx. 400 g

Lens of long focal length, easy to handle and light in weight, for landscapes, portraits, sports and animal photography as well as for close-up photographs, if special value is attached to a favourable perspective.

*) The diaphragm is automatically so controlled with the distance setting that the ratio of the lens aperture remains constant over the total setting range, thus the exposure time does not require any correction when doing close-up work.

**) The JENA-S 4/135 mm has an extremely long extension. Therefore, photography with distances down to 1 metre is possible without adapter rings and supplementary lenses, the image of the object being of the same size as that of a photograph by an $f=50$ mm lens from a distance of approx. 0.37 m.



JENA-S 2.8/180 mm

Five-element lens

Angular field 14°

Automatic diaphragm

Iris stops from 2.8 to 22

Click stop also for intermediate values

Automatic diaphragm correction*)

Distance setting from ∞ to 2.2 m

Depth of field scale

Interchangeable adapters for various camera models

Screw-in thread for filter, M86 x 1**)

Overall length 148.1 mm (at ∞)

Maximum diameter 100 mm

Weight approx. 1.1 kg

Fast lens of long focal length for landscapes, sports, animal and portrait photographs, and news photography.

*) The diaphragm is automatically so controlled with the distance setting that the ratio of the lens aperture remains constant over the total setting range; consequently no subsequent correction is required for close-up photographs.

**) With the JENA-S 2.8/180 mm comes a lens shade equipped with an adapter ring M 86/M 95. When using the filter M 86W destined for the JENA-S 2.8/180 mm, this adapter ring has to be removed; in this case the sun shade is directly screwed on to the filter.





The new automatic diaphragm (ASB)

with which the lenses listed in this pamphlet are equipped, enables the owner of an EXAKTA or an EXA to take his photos just as fast as he would with a rangefinder camera. As with the latter type of camera, only the diaphragm has to be set for the required value prior to exposure. The diaphragm has click stops. It catches - important for colour photography - also at intermediate diaphragm values. Contrary to the semi-automatic diaphragm, an automatic diaphragm does not require previous coding. In these lenses the diaphragm - independent of the value set at the time - is always fully opened. Only when depressing the release on the lens (1), thus in turn actuating the camera release, the diaphragm, directly prior to the shutter action, stops silently and free from vibration down - it springs - to the last set value. As soon as the release is set free, the diaphragm opens again. Is the diaphragm to be stopped down to the set value before the



shutter is actuated, e. g. for checking the depth of field, the grooved spring-return fitting enclosing the release (2) has to be pushed towards the camera and to be arrested by turning it slightly to the left. In this position the automatic control is rendered ineffective and the lens can be used like one equipped with a standard diaphragm. By turning the fitting to the right and springing it back, the automatic control is re-established. On the lower side of the release there is a small set screw for adjusting the correct distance between the releases of lens and camera.



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JENOPTIK JENA GmbH

Fernsprecher: Jena 27042 - Fernschreiber: Jena 0588622

Sales Department for Photographic Optics

Telephone: Jena 7042

Telex: Jena 058622

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Represented in this country by: