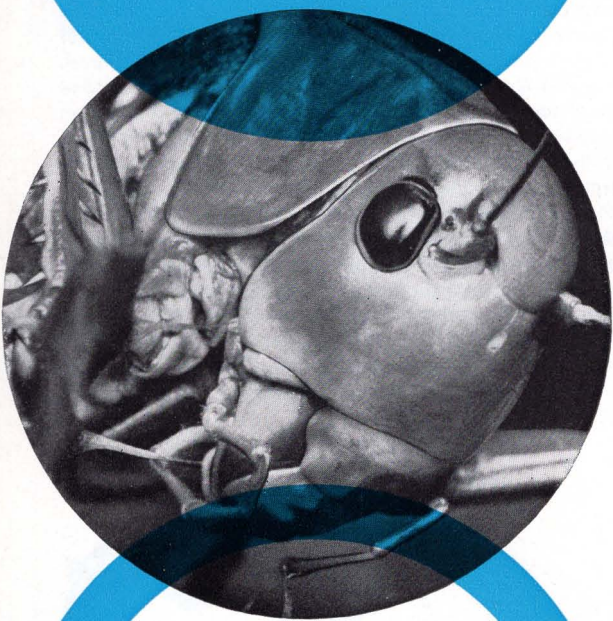
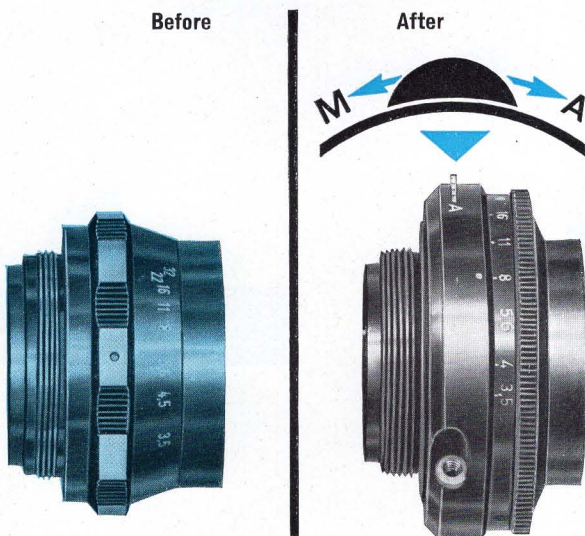


Automatic diaphragm



NOVOFLEX

The "armoured knight" on title page is a grasshopper. Projected, this insect becomes a giant and peers at us through enormous eyes. An exciting and beautiful world unfolds with macro-photography. Wondrous explorations are possible without a distant trip. Three square feet of field or meadow offer an endless variety of interesting subjects. Within this area, specialization is possible; the photographer may pursue crawling insects or concentrate on butterflies. All such pictures have one common requirement, a small diaphragm opening. For example, our grasshopper was exposed at $f:22$ in order to take advantage of increased depth-of-field. Flowers present no problem because the equipment is mounted on a tripod in front of the subject, the composition and focus viewed through maximum diaphragm opening, before manually stopping down just prior to making the exposure. Obviously, it is impossible to photograph a moving insect or a butterfly in the same manner. The subject won't wait until you've set up your tripod . . . or you may prefer not to carry a tripod. Hand-held close-up pictures are extremely difficult to compose or focus in the dim light resulting with the diaphragm stopped-down. The groundglass or prism image is dark and the slightest movement "shakes" the image out of sharpness range. An automatic-diaphragm becomes of utmost importance in close-up as well as normal photography. Focusing errors are reduced to an absolute minimum. Out-of-focus and lost pictures are forgotten. The new Novoflex automatic diaphragm is the answer. A selection of lenses with automatic diaphragm is now available in the 105 mm and 135 mm focal lengths. As an advantage to present owners of these lenses, an automatic diaphragm may be installed in all following lenses:



Noflexar	105 mm, f : 3.5
Noflexar	135 mm, f : 4.5
Xenar	135 mm, f : 4.5

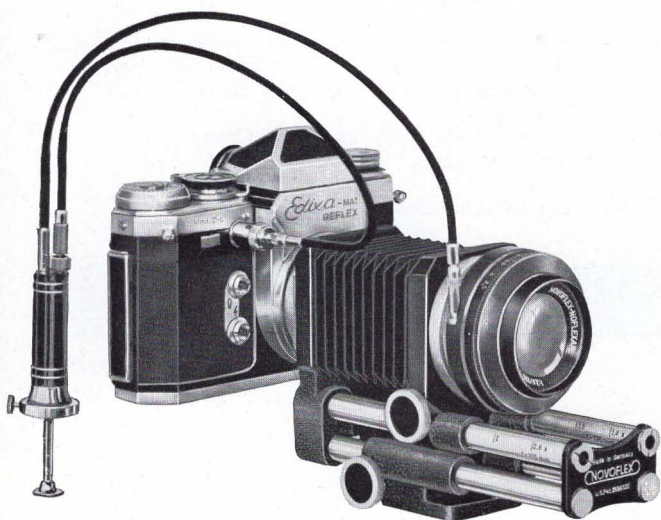
and in most

Travegar	105 mm, f : 3.5
Travenon	135 mm, f : 4.5
Culminar	135 mm, f : 4.5 lenses.

The diaphragm reopens automatically when finger pressure is released. Aperture calibrations have click-stops and linear spacing, plus good distance between each to permit accurate choice of $\frac{1}{2}$ or $\frac{1}{4}$ stops.

The following easy instructions describe how to change from automatic to manual setting and control depth-of-field:

1. Automatic diaphragm: With lens affixed to bellows, the red dot on knurled fingerwheel (on outer barrel) is positioned to A (automatic), the **adjustable** cable release is threaded into camera-shutter-release and the other cable is screwed into the lens-release-socket. The camera-cable is now adjusted to release the shutter **after** the diaphragm is closed: turn the longer knurled knob into or out of the handle until the desired position is reached and holding it in place, screw the shorter knurled knob against the handle-base to secure cable-release position in place. Correct automatic diaphragm and shutter exposure sequence have been adjusted and you are ready for picture taking.



2. Automatic or manual selection is your choice. The knurled wheel adjusted to A furnishes automatic-diaphragm operation; the diaphragm remains fully open until cable release pressure closes it, a split second prior to exposure, to its pre-selected aperture opening. The diaphragm reopens completely immediately on release of finger pressure. Manual diaphragm control is obtained by positioning wheel-red-dot to M and diaphragm will open or close according to rotation of diaphragm setting ring.
3. Depth-of-field Control: since depth-of-field differs with each reproduction ratio, it is impossible to construct a depth-of-field chart for use with bellows-lenshead combination. In general, for hand-held macro-photography, the rule is to choose smallest aperture permissible under existing light conditions. Visual control of depth-of-field is feasible by pushing the double cable release until you feel resistance. **Caution:** Further pressure will release camera shutter.
4. To convert lens-mounts not originally furnished with automatic diaphragms: Noflexar 105 mm and 135 mm, Xenar 135 mm, Travegar 105 mm, Travenon 135 mm, and Culminar 135 mm may be fitted with automatic diaphragm assemblies. Please take the lens to your local photo dealer and instruct him to return it to the factory . . . or to the importer or distributor. The modification is accomplished within a matter of days. Costs are included in published price lists and may be obtained from your dealer.

Please specify name and model of camera you intend to use with the Novoflex automatic diaphragm/double cable release equipment. All cameras require a cable-release which will be supplied as necessary.

Novoflex lenses with automatic diaphragm will provide both amazing photography and trouble-free pleasure-routine expectations when using any Novoflex product.

Novoflex automatic diaphragm patents pending in Germany and foreign countries.

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