

Short description of three new optical instruments secretly designed and developed during the German occupation by,

N.V. OPTISCHE INDUSTRIE "DE OUDE DELFT", Delft.

1. VARIOTEL (telescope with variable magnification).

The optical system applied in this instrument is entirely new and covered by a series of patents or patent-applications. With this telescope, magnifications of 8 and 22 times with apertures of 16 and 60 mm respectively, are feasible. The magnification can be varied during observation by means of a simple Bowdencable-mechanism. Thus it is possible to bring an object into the field of view with the small magnification and then switch over on the great magnification by simply releasing the button of the Bowdencable. The telescope is smaller in size and weight than any other telescope ever built for equal performance. "Colour" has been practically abolished, owing to the use of a patented special "Oude Delft" mirror-system.

2. FOTOTEL tele-objective 36: 4,5

This tele-objective is based on a mirror system, covered by the same patent as that of the telescope just described. The focal length is 360 mm with an aperture of 80 mm (relative aperture 1: 4,5). It is again smaller in size and lighter in weight than any other tele-objective with the same focal distance and aperture ever built and shows an extremely sharp definition with almost complete abolishment of "colour". The actual size of the image is 24 x 24 mm, but an enlargement up to 10 times is easily possible.

3. FOTOTEL tele-objective 60: 6,3

Another tele-objective, exactly similar in construction, has been designed for a focal length of 600 mm, with a relative aperture of 1: 6,3. The size of the image is then sufficient to cover 24 x 36 mm or 30 mm². This image can also be enlarged up to 10 times this size.