

OPTISCHE WERKE A.G. WETZLAR



DIALYT

*Hensoldt*



M. HENSOLDT & SÖHNE



DIAGON

MB



WHY

*Hensoldt*



Scientific basis, solid construction, long years of technical experience, the most suitable materials and the utmost precision in production are all truly embodied in every *Hensoldt* binocular.

From the point of view of the user the excellent definition, mechanical precision and reliability are the most important characteristics of all *Hensoldt* binoculars. In magnification, field of view and light gathering power – all of which are, for a given objective diameter, governed by fixed physical laws – every *Hensoldt* model guarantees the highest possible performance.

Yet despite these facts: *Hensoldt* binoculars are reasonably priced.

**THEORETICAL LIGHT-GATHERING POWER AND PERFORMANCE AT TWILIGHT**

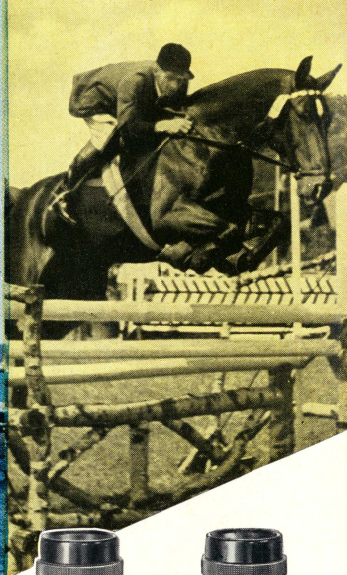
The *theoretical light-gathering power* is given by the square of the diameter of the exit pupil (measured in mm.). The latter is found by dividing the clear objective diameter by the magnification (both figures are engraved on binocular). It can be fully utilized by the eye only when the pupil of the latter (at daytime about 2–3 mm.) is at least as large as the exit pupil of the binocular. In twilight or at night time the pupil of the eye dilates and then full advantage is taken of a binocular with large exit pupil. In addition to the light-gathering power another factor is to be considered – the magnification; for a higher magnification gives increased resolution and enables more details to be recognized than is possible with a lower-powered glass, although the latter may transmit more light. It is on this account that the term "*Performance at Twilight*" has been introduced in physiological optics. As result of thorough scientific research work, the numerical value for the performance at twilight can easily be calculated and is the square root of the product of clear objective diameter and the magnification. However, for comparison this rule holds good only when the diameter of the exit pupil is not substantially smaller than 4 mm.

**INCREASED ILLUMINATION WITH E-COATING**

The effective and durable *Hensoldt* E-coating eliminates every disturbing reflected image in the binocular and increases the light transmission extremely – about one third more than in uncoated glasses –. This increase of brilliance and brightness is of particular advantage in poor light or at dawn.



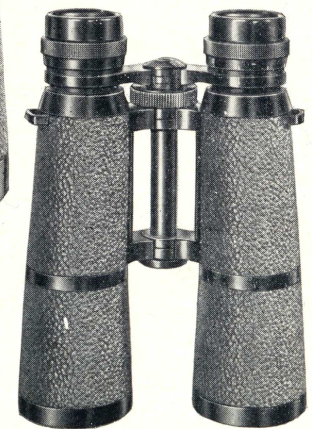
**DIAGON**  
6x30  
8x30



**DIALYT 8x32**



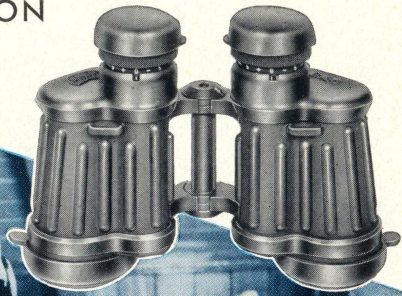
◀ **Night-DIALYT 8x56**



**DIALYT 7x42** ▶



DIAGON  
6 x 30  
8 x 30



DIASPORT  
8 x 20

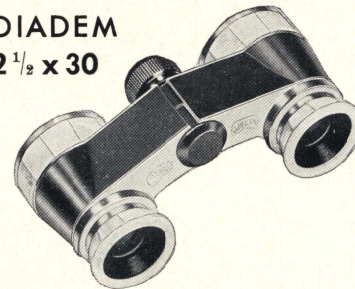
Please ask for leaflet 1291 e



GALYT 4 x 40

Good Galilean type glass with bending bar

DIADEM  
2 1/2 x 30



Theatre Glasses in different colour combinations  
Please request leaflet F14e

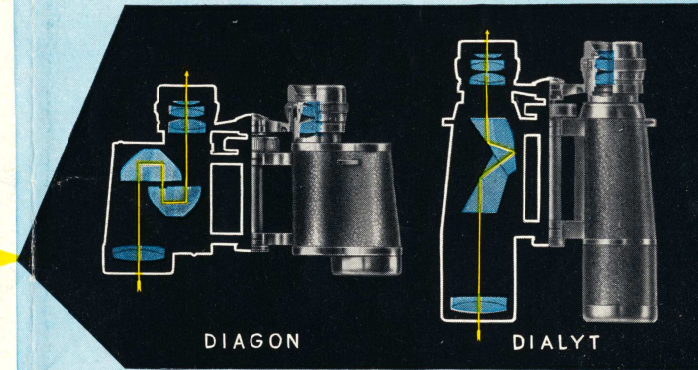


### DIAGON OR DIALYT?

The DIAGON, fitted with Porro prisms, is the traditionally approved type of prism binocular.

The DIALYT, fitted with ~~Hensoldt~~ roof prisms, is distinguished by its slender shape which shows a considerable saving in size and weight.

The DIALYT is always to be recommended where highest optical performance together with light weight and handiness in use are demanded.



### WHICH MODEL TO CHOOSE?

This is not so easily answered, because so much is required at the same time. The most exacting requirements in magnification, field of view, light-gathering power and "performance at twilight" cannot be satisfied in a glass which also combines minimum size and weight. The data and remarks contained in the table in this folder should assist you in making a choice. If the binocular is to be used only in the hands magnifications up to 8x are suitable, though for an experienced user with steady hands 10x may not be too high. For powers above this a stand or some kind of support is necessary if the full advantage of the high magnification is to be obtained.

Testimonials from all over the world repeatedly confirm the reliability of ~~Hensoldt~~ binoculars. This judgment is based not only on the high optical performance of the glasses but on experience in using them under the most varied and exacting conditions. You too will do well to

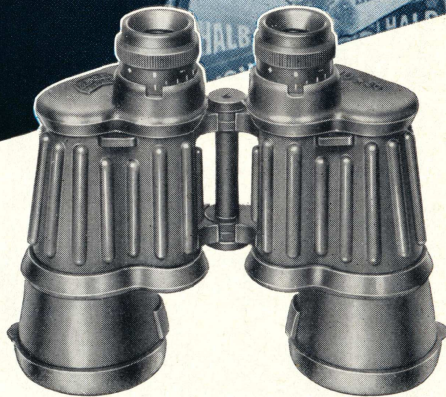
CHOOSE

*Hensoldt*



M. HENSOLDT & SÜHNE, OPTISCHE WERKE A.G., WETZLAR

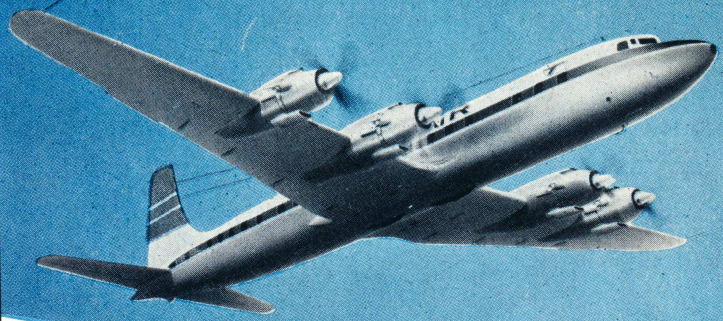
DIAGON  
7 x 50  
10 x 50



Special Binoculars with Rubber Armour

our special-leaflet F 1259 e





◀ DIALYT 10x50  
16x56



DIAGON 7x50  
10x50  
15x50

DIALYT 7x50 ▶  
8x50

DIALYT 25x56



DIALYT 40x60



DIAGON 40x60



DIAGON  
25x56

High power monocular prismatic telescopes. Particularly suitable for viewing landscapes and for distant observations in nature studies. Please ask for leaflet F 1251 e.  
For use as target observation telescope please request leaflet F 12/1382 e.

**MB**







TRADEMARK ONLY

## BRING THE DISTANT SCENE WITHIN YOUR VISION –

Binoculars will reveal new interests and new beauty to you. As though by magic they expose the details of the surrounding world.

To see more, and to see more exactly, than is possible with the naked eye – who does not delight in doing this?

With their full range of production *Hensoldt* offer the perfect glass for every purpose. Optical supremacy and mechanical precision result in a performance which undeniably guides you to the choice of a *Hensoldt* and it becomes a lasting treasured possession.

More than 100 years of tradition in the spirit of progressive development guarantee the quality of *Hensoldt* products.

| Model        | Linear magnification M | Clear objective dia. D mm. | Exit pupil dia. $\frac{D}{M}$ mm. | Theoretical light gathering power $(\frac{D}{M})^2$ | Performance at twilight $\frac{1}{M \cdot D}$ | Field of View              |                   | Binocular        |                   | Codeword | Remarks  |
|--------------|------------------------|----------------------------|-----------------------------------|---|---|----------------------------|-------------------|------------------|-------------------|----------|--|
|              |                        |                            |                                   |   |   | in angular measure degrees | at 1000 yds. yds. | Weight ozs.      | Length appr. ins. |          |  |
| DIALYT       | 8                      | 32                         | 4                                 | 16  | 16  | 8.6                        | 150               | 20               | 6 $\frac{1}{3}$   | Dylik    | Handy, large field of view, for many purposes.   |
| DIALYT       | 7                      | 42                         | 6                                 | 36  | 17.1  | 8.0                        | 140               | 20 $\frac{1}{2}$ | 7 $\frac{1}{4}$   | Dyhub    | High light transmission, liked by hunters.   |
| DIALYT       | 7                      | 50                         | 7.14                              | 51  | 18.7  | 7.1                        | 125               | 24               | 8 $\frac{1}{8}$   | Dypos *  | High optical performance; conveniently handled for difficult observations, ornithology etc.  |
| DIALYT       | 8                      | 50                         | 6.25                              | 39.1  | 20  | 7.0                        | 123               | 24 $\frac{1}{3}$ | 8                 | Dylom    |  |
| DIALYT       | 10                     | 50                         | 5                                 | 25  | 22.4  | 6.25                       | 110               | 25               | 8 $\frac{3}{4}$   | Dydez *  |  |
| Night-DIALYT | 8                      | 56                         | 7                                 | 49  | 21.2  | 6.25                       | 110               | 25               | 8 $\frac{3}{4}$   | Dynoc    | A glass of high performance for the most exacting demands. Highly acclaimed by hunters.      |
| DIALYT       | 16                     | 56                         | 3.5                               | 12.2  | 29.9  | 4.3                        | 75                | 26 $\frac{1}{2}$ | 9 $\frac{3}{4}$   | Dysed    | Specially intended for long range viewing. Support is advisable.                             |
| DIAGON       | 6                      | 30                         | 5                                 | 25  | 13.4  | 8.6                        | 150               | 15 $\frac{3}{4}$ | 4 $\frac{3}{8}$   | Dojag *  | Universal glass for personal and occupational use. Good optical performance.                 |
| DIAGON       | 8                      | 30                         | 3.75                              | 14.1  | 15.5  | 8.6                        | 150               | 16 $\frac{1}{2}$ | 4 $\frac{1}{2}$   | Dospo *  |  |
| DIAGON       | 7                      | 50                         | 7.14                              | 51  | 18.7  | 7.3                        | 128               | 34 $\frac{1}{2}$ | 7                 | Domar *  | Valued for high light transmission and wide field for hunting, marine use, exploration, etc. |
| DIAGON       | 10                     | 50                         | 5                                 | 25  | 22.4  | 6.9                        | 124               | 35 $\frac{1}{2}$ | 6 $\frac{3}{4}$   | Dodix *  |  |
| DIAGON       | 15                     | 50                         | 3.33                              | 11.1  | 27.4  | 4.6                        | 80                | 37 $\frac{3}{4}$ | 6 $\frac{2}{3}$   | Domik    |  |
| Monocular    | 25                     | 56                         | 2.2                               | 5   | –   | 2.9                        | 50                | 23 $\frac{1}{2}$ | 14 $\frac{1}{8}$  | Dytar    | For great distances excellent image.   |
| DIALYT       | 40                     | 60                         | 1.5                               | 2.2   | –   | 1.75                       | 30                | 41               | 21 $\frac{3}{4}$  | Dyerd +  |  |
| Monocular    | 25                     | 56                         | 2.2                               | 5   | –   | 2.9                        | 50                | 21 $\frac{3}{4}$ | 11 $\frac{3}{4}$  | Dofad    | + DIALYT 40 x 60 also available without reversing system for astronomical purposes "Dyast".  |
| DIAGON       | 40                     | 60                         | 1.5                               | 2.2   | –   | 1.75                       | 30                | 32 $\frac{3}{4}$ | 19 $\frac{2}{3}$  | Dotun    |  |
| DIASPORT     | 8                      | 20                         | 2.5                               | 6.25  | –   | 6.9                        | 120               | 8 $\frac{3}{4}$  | 3                 | Difer    | Pocket prism glass, for all occasions.   |
| GALYT        | 4                      | 40                         | 8.25                              | 68  | –   | 8.0                        | 140               | 12 $\frac{3}{4}$ | 4                 | Dagal    | Excellent Galilean field glass.  |

Binoculars marked \* can also be supplied with eyepiece focusing. When ordering, add suffix "oku" to the codeword. Binoculars with this type of focusing are highly dust- and waterproof and therefore are advised for use in severe climates or where they may be subjected to very hard wear. All binoculars are supplied with a black neck strap and best quality brown leather case. The weights stated are subject to minor variations. The figures for the optical properties and performance are valid under the usual tolerances. The illustrations are subject to alterations in their detail without notice.

All binoculars with exception of the DIASPORT are available in monocular form. The DIALYT type is particularly suitable as a monocular. Codeword suffix "mon".

**Accessories for binoculars:** Rain guards, yellow glasses, sun observation glasses, flat eyecups for spectacle wearers, tripods for monocular glasses, tripod clamps for binoculars.

No. 12381 e

Printed in Germany

7.605

GENUINE *Hensoldt* WITH THIS

