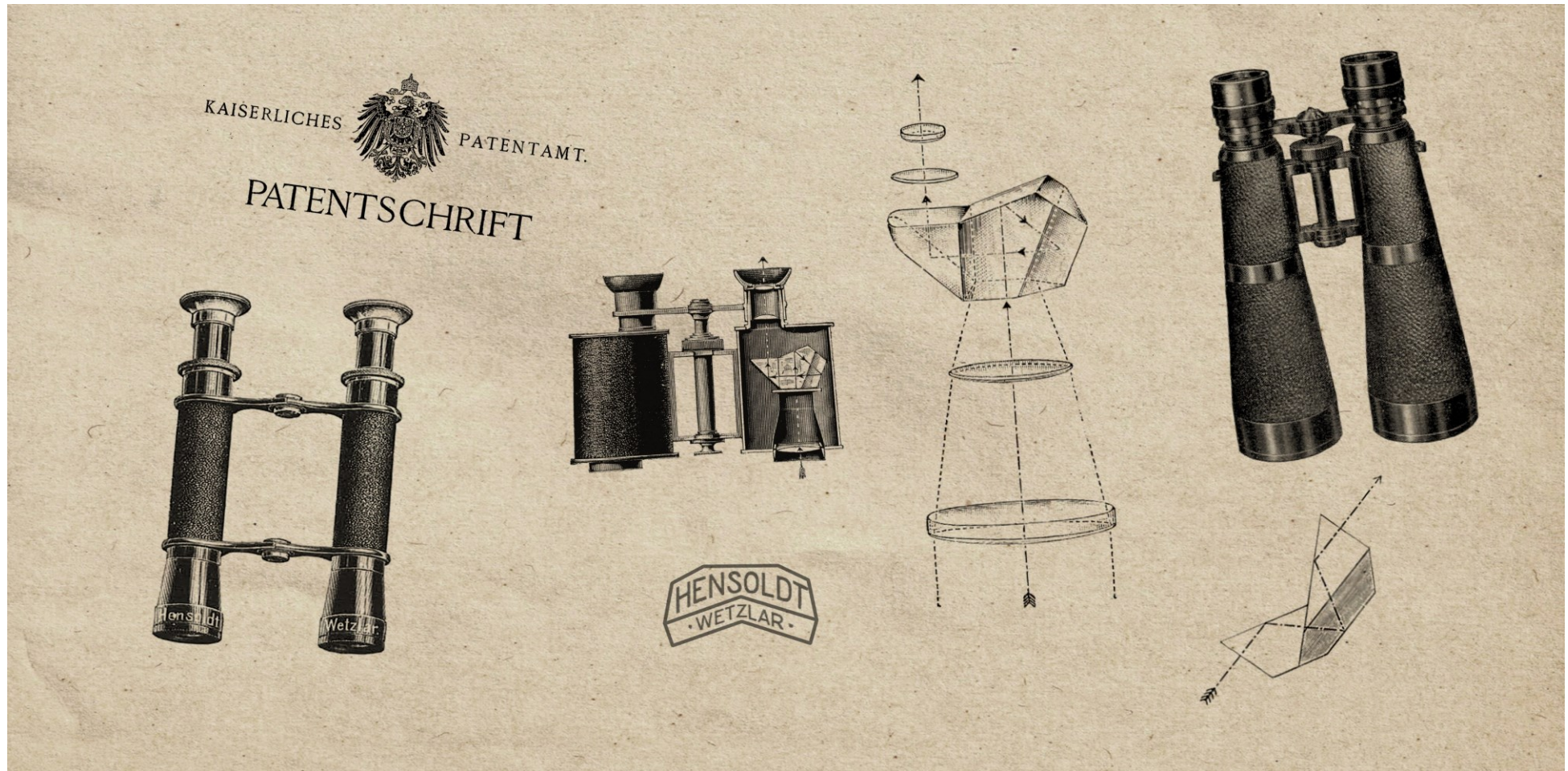


Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg



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The HENSOLDT company started with telescopes and binoculars around 1892. The first products shown in 1897 were a 7x25 terrestrial binoculars with erecting lens system and a 7x29/30 roof pentaprism model. However, the latter leads to legal problems due to the extended lens distance due to the ZEISS patent DRP 77.086 from 1893 (valid until 1908), although the claims formulated therein clearly refer to Porro systems. The HENSOLDT patent application for roof pentaprism glasses was rejected in Germany, but was granted in 1898 abroad, e.g. in Great Britain as patent GB 15.806. The frequently mentioned HENSOLDT patent DRP 118.256 from 1900 only describes the prism attachment, not the basic construction of the binoculars. The patent dispute with ZEISS ends in a settlement.

In 1905, HENSOLDT received the DRP 180.644 for its new straight-sighted "Hensoldt roof prism", which, in contrast to the previous roof pentaprism system, managed without an offset axis and without light-absorbing mirroring. It is based on the DRP 130.508 (ZEISS, Albert König, 1901, with air gap), which follows the unpatented Abbe system with Amici and right-angled prisms. Curiously, ZEISS fails to extend this patent in time and it expires in 1906. At ZEISS in Jena, however, roof prism systems for normal binoculars are considered too expensive and difficult and not promising anyway. HENSOLDT, on the other hand, bets everything on this card, and with great success.

Roof prisms allow large objective diameters and bright images in an extremely slim and handy housing. However, due to the required accuracy of the 90° angle, the flatness of the roof surfaces and the design of the roof edge, the system places extremely high demands on production. Only a few are able to do this and "the first of these very few companies is M. Hensoldt & Söhne, Wetzlar" Hans Schmidt writes 1903 in the magazine "Der Mechaniker". HENSOLDT already has a lot of experience with roof prisms from the production of the range finder, which also has been equipped with such prisms since 1892.

In 1896, the sons Waldemar and Carl Hensoldt became partners of Moritz Hensoldt, who left the management some years later in 1899. He dies in 1903. The family-run HENSOLDT company becomes a stock corporation in 1922, with ZEISS taking a majority stake in 1928. What sounds like a "hostile takeover" is actually saving the Wetzlar company from impending insolvency.

The "Hensoldt roof prism" from 1905, later known as the "Abbe-König prism", is an important milestone in the history of binoculars and the company. For more than 100 years, this prism was synonymous with the extremely bright and slim Dialyt models. The name "Dialyte" - used by HENSOLDT for the first time in 1902 for a 5x35 pair of binoculars - has nothing to do with the prism, but stood for the dialytic = divided objective system of the binoculars mentioned, which by the way was still equipped with "old" pentaprisms.

Central-Zeitung für Optik und Mechanik.
Berlin, den 1. September 1905. XXVI. Jahrgang.
No. 17.

Inhalt: Hensoldt-Ferngläser mit Dachprisma. Modell 1905. S. 213. — Grundgesetze der Optik. Von Dr. Arnold Brass, Weimar. S. 213. — Die Braunesche Methode zur Erkennung submikroskopischer Strukturen und damit zusammenhängende Untersuchungen über Doppelbrechung. S. 218. — Centralverbiind der Inhaber optischer Geschäfte. S. 220. — Josef Petzval. S. 221. — Ursachen in der Fokalliteratur. S. 221. — Unterricht. S. 221. — Kleine Mitteilungen. S. 221. — Geschäftliche Mitteilungen. S. 222. — Patentwesen. S. 223. — Eingekaufte Preislisten. S. 223. — Briefkasten. S. 223. — Rundenheft für Optiker. S. 223.

Nachdruck ohne Quellenangabe verboten.

Hensoldt-Ferngläser mit Dachprisma.
Modell 1905.

Die Firma M. Hensoldt & Söhne in Wetzlar zeigt gegenwärtig unter der Bezeichnung „Hensoldt-Ferngläser mit Dachprisma, Modell 1905“ eine Neukonstruktion des Prismensystems heraus, die in der ganzen Entwicklungsreihe der Ferngläser, von dem Galileischen und terrestrischen Fernrohr an, eine neue Stufe bedeutet. Denn die seitliche Veretzung des Strahles, die allen bisherigen Systemen noch anhaftete, ist durch die neueste Konstruktion Hensoldt's beseitigt. Das Objektiv ist weder nach der Höhe noch nach der Seite gegen das Okular veretzt, sondern Objektiv, Prisma und Okular liegen gradlinig, central in einer Axe, wie beim terrestrischen Fernrohr. Das bedeutet einen ganz wesentlichen Fortschritt gegenüber dem Prismenfernrohr älterer Konstruktion, der besonders besteht in der absolut sicheren Lagerung der optischen Elemente und in der denkbar geringsten Lichtabsorption.

Während die bisher gebräuchlichen Prismenfernrohre nach der alten Konstruktion Porro's (von Jahre 1853) zur Bildumkehrung zwei rechtwinklige Prismen in besonderer Stellung erfordern, ist Hensoldt's Prismafernrohr mit nur einem kombinierten Glaskörper ausgestattet. Hierdurch wird das System eines Prismenbinokles ganz wesentlich vereinfacht, da die Folge der fachen und dachartigen Konstruktion des Glaskörpers die Bildumkehrung in dem einen Hauptstück des Prismensystems selbst erfolgt. Eine Störung der Gestalt und eine Beeinträchtigung der Güte des Bildes kann somit nicht stattfinden.

Hensoldt's Neukonstruktion des gradlinigen Prismensystems ermöglicht wiederum die Anwendung grosser Objektivs bis zu einem Durchmesser von 60 mm. Und da von dem Durchmesser des Objektivs die Lichtstärke abhängt, so werden die Hensoldt'schen Ferngläser in der Helligkeit des Bildes von keinem bekannten Prismenfernrohr erreicht.

Die sonstigen allbekannten Vorzüge der Hensoldt'schen Prismaferngläser, wie grosses Gesichtsfeld, scharfe, korrekte Bilder, grösste Stabilität des ganzen Instruments und absolute Unveränderlichkeit der Justirung zeichnen auch das neue Modell in vortrefflicher Weise aus. Die Prismen sind total reflektierend, haben keinen Spiegelbelag

und keine Klotzfäden. Der Prismenkörper kann zum Zweck der Reinigung herausgenommen werden. Der Hauptkörper ist als ein Stück aus einer sehr widerstandsfähigen, schon Aluminiumlegierung gegossen. Als Ueberzug für den Körper des Feldstechers wird anstatt Leder schwarze Emaille verwendet, die gegen Regen und Feuchtigkeith völlig unempfindlich ist und ausserdem ein elegantes Aussehen gewährt.

Das Format des neuesten Hensoldt-Feldstechers ist in Folge der gradlinigen Anordnung von Objektiv, Prisma und Okular bedeutend schmäler und schmäcker geworden als dasjenige anderer Modelle.

Die Hensoldt-Gläser sind in verschiedenem Weise verwendbar, für Theater, Reisen, Jagd, Sport (Rennen und Regatten), Militär- und Marinezwecke. Besondere Erwähnung verdienen die Spezialkonstruktionen für Jagd und Marine, bei denen vor allem auf Erzielung grosser Lichtstärke Werth gelegt wurde. So werden mit den beiden Spezialgläsern „Dialyt II“ und „Nimrod II“ Bilder von grösserer Helligkeit erzielt, die ein deutliches Erkennen und ein sicheres Ansprechen des Wildes bei trübem Wetter und in tiefer Dämmerung ermöglichen, denn noch, wenn andere Systeme längst versagen. Dagegen ist das Spezialmarinerglas von einzig dastehender, unerreichter Qualität und eignet sich in einem nicht zu überbietenden Grade zu Beobachtungen bei Reisen auf hoher See für civilen und militärischen Gebrauch, bei trübem Wetter wie bei Nachtsehen.

Grundgesetze der Optik.
Von Dr. Arnold Brass.
(4. Fortsetzung)

Das Abbilden der Aussenwelt hat von jeher den Menschengeist in mannigfacher Weise beschäftigt. Es liegt in unserer Natur begründet, Dinge, welche unser Interesse erweckt haben, irgendwie im Bilde festhalten zu wollen. Die darstellende Kunst aller Zeiten und Ländern hat aus diesem Streben heraus Bilden treiben und schöne Früchte zeitigen können. — Hatten ebenfalls Auge und Hand allein ein Nachbild zu schaffen, so werden wir heute in einem weitgehenden Masse durch ein eigenartiges Zusammenwirken von Chemie und praktischer Optik bei der Erfüllung unserer Wünsche unterstützt: wir photographiren die Dinge um uns herum. Wir lassen das Licht selbst die Aussenwelt zeichnen. Dazu können wir gar mannigfache Hilfsmittel verwenden. Dem aber, dass allen diesen nur ein einziges Gesetz zu Grunde liegt, haben wir noch nicht gedacht. Loch-Kamera und Zeiss-Planar wirken nach einem Princip! Das wollen wir uns doch einmal etwas anders ansehen, als es in unseren Lehrwerken, die ja bereits nach hunderten zählen, entwickelt und dargestellt wird.



Many thanks to Dr. Wolfgang Wimmer and to the ZEISS archive in Jena for providing many informative and contemporary documents.

And also many thanks to Wolfgang Kornmann (Steffenberg), Karsten Porezag (Wetzlar) and Hans Seeger (Hamburg), whose publications and works provided helpful hints.

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1892 The beginning

Rangefinder with roof prisms - Terrestrial model with lens inverting system - Roof pentaprism binoculars.

1892 - Rangefinder

The optical design corresponds to a roof prism binoculars with an objective distance of 1 - 2 m. Together with companies Beaulieu and Hahn. DRP 71739.

1897 - Stereo-Binocle 7x25
(Lens inverting system)

Lens system. The hinge has neither a central axis nor a locking screw. In England it is sold under the brand "Wehges" (Wetzlarer Handels-Gesellschaft). It has 4-lens eyepiece, one cemented element each as inverting system and objective. 80 m FoV | 17 cm H | 350 g

1897 - Pentaprism Binocle 7x29/30
(Model I)

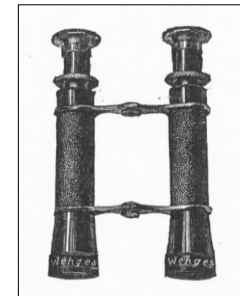
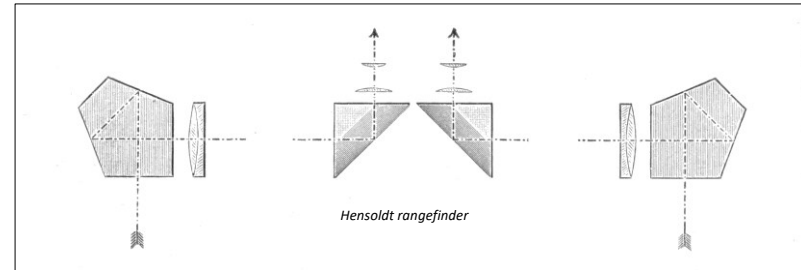
The first HENSOLDT **roof pentaprism binocle, based on the prisms from the rangefinder.** The hinge has no central axis nor a locking screw. 96 m FoV | 13 cm H

1899 - Pentaprism Binocle / Wehges

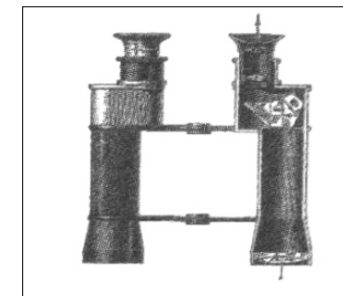
Only little information available. Two piece case along top hinge. 10 cm H. Also listed as "**Wehges**".

Hensoldt prism binoculars in the **Leman-Sprenger** design

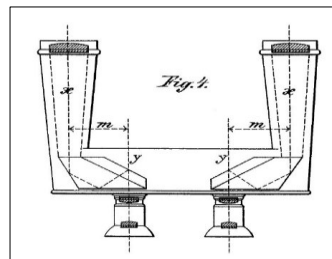
The binoculars with the **one-piece roof prism** does not appear in Hensoldt sales brochures. The DRP 94450 from Sprenger only refers to the prism and an adjustment option to the interpupillary distance. Not on the basic design of the binoculars, which also causes problems with the ZEISS patent regarding the extended objective distance.



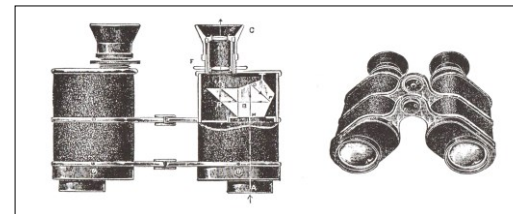
Stereo Binocle 7x25.



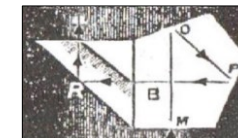
Pentaprism Binocle 7x29/30 (Model I).



Drawing from Sprenger Patent 94450



1899: Pentaprism Binocle II (Wehges).



First pentaprism system: The roof is part of the right-angle prism left side. These parts were available from the range finder and were taken over unchanged.

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1900

World Exhibition in Paris;
french brochure

The two-part, cemented **pentaprism system is modified** so that only one instead of two surfaces has to be mirrored, which leads to more brightness. In the new system, the entrance prism (pentaprism) contains the roof edge, previously the second prism (right-angle prism) was designed with the roof edge. The pentaprism binocle is available with a **center focussing**, whereby the focussing ring is temporarily located between the hinges, later above it.

Catalogue "Welt-Ausstellung in Paris"

Hensoldt is represented with two binoculars, a compact pentagon goniometer and optical components such as objective and eyepiece assemblies.

Stereo-Binocle 7x25

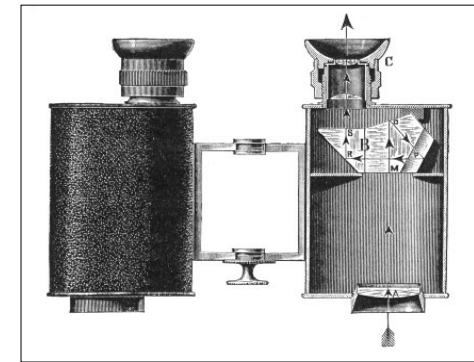
With lens erecting system, presumably identical to the Wehges model.

Pentaprism Binocle 7x24

Very flat, single eyepiece focussing, no central axis but screw to fix the hinge.
97 m FoV | 395 g



Terrestrial binoculars "Stereo Binocle" 7x25.



"Pentaprism Binocle" 7x24.

Brochure "Nouvelle lunette d'approche a main"

Stereo-Binocle 6,5x

Lens erecting system, no screw to fix the hinge.
88 m FoV | 95 Mark

Stereo

Pentaprism Binocle 7x22,5

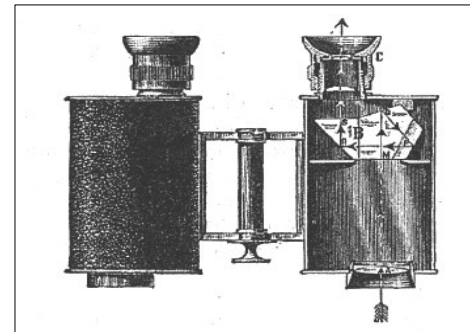
Hinge with central axis and screw to fix it, central focussing (MT) available.
93,5 m FoV | 140 Mark (150 Mark with MT)

Penta

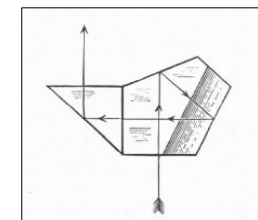
Pentaprism opera glas 4x

164 m FoV | 125 Mark

Opera



Pentaprism Binocle mit single eyepiece focusing, central axis and screw to fix the hinge.



New prism system:
The roof edge is part of the pentaprism. Only one mirroring is necessary, instead of two before.

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1901

Catalogue no. 5 (March 1901);
Catalogue no. 6 (August 1901);
Catalogue no. 7 french (Oct. 1901)

A **new prism mount** (DRP 118.256 from 1900) allows easy adjustment and cleaning.

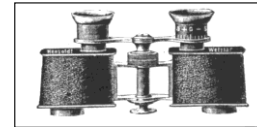
The binoculars have a central axis with a locking screw for the hinge, carrying strap holder, and screwed-on covers at the top and bottom.

MT (Mitteltrieb) = center focus ("double adjustment") or ET (Einzeltrieb) = single eyepiece focus. All models are also available as monoculars.

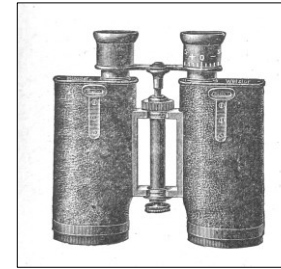
Important innovations are the **50 mm lenses**.

Leisure and hunting

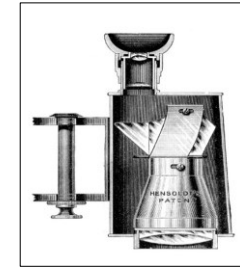
No. 1 - 4x18 Theaterglas	MT 460 g 8,5 cm H	Opera
No. 2 - 5x22,6 Jagdglas	MT 500 g 10,5 cm H	Jagdglas
No. 3 - 7x22,6 Feldstecher	MT 530 g 11,5 cm H	Penta
9x22,6 Feldstecher	MT 520 g 11,5 cm H only in catalogue 5	Novies
No. 4 - 6x26 Pirschglas	MT 623 g 12,2 cm H	Diana
No. 5 - 7x26 Feldstecher	MT 12 cm H	Feldstecher
No. 6 - 9x26 Feldstecher	MT 12 cm H	Novies
No. 7 - 12x26 Feldstecher	MT 600 g 12 cm H	Duodecies
No. 13 - 10x50 Spezial Jagdglas	MT 80 m FoV 20 cm H from 1902 as 12x too	Nimrod



4x18 theater glass with "extremely cute shape" (catalogue description).



Hunting glass 10x50 with center focussing



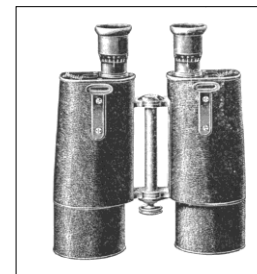
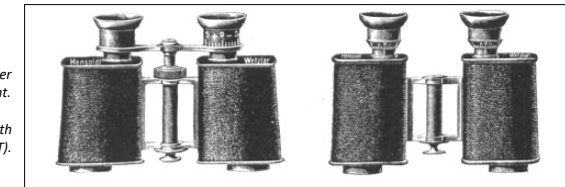
New prism mount due to DRP 118.256 (August 1900).

Military and marine

7x22,6 Military glass	ET 475 g 11 cm H only in catalogue 5	Militaria
9x22,6 Military glass	ET 480 g 11 cm H only in catalogue 5	Milesnovies
6x26 Marine glass	ET 620 g 12 cm H nur im catalogue 5 gelistet	Marine
No. 8 - 6x26 Military glass	ET 12 cm H	Sechs
No. 9 - 7x26 Military glass	ET 12 cm H	Sieben
No. 10 - 9x26 Militär glass	ET 12 cm H	Neun
No. 11 - 10x50 Marine and Artillery glass	ET 20 cm H	Flotte
No. 12 - 12x50 Marine glass	ET 20 cm H	Marine

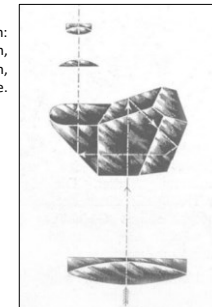
Left: Binoculars with center focussing (MT) and diopter adjustment.

Right: Military glass with single eyepiece focussing (ET).



Large 10/12x50 Marine glass with single eyepiece focussing.

Typical optical design:
Eyepiece system,
pentaprism,
achromatic objective.



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1903

Deutsche Jäger-Zeitung 12/1902

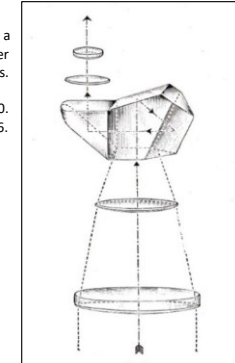
In November 1902, the "Deutsche Jäger-Zeitung" (No. 12 of November 9 / W. Holterbach) reports on the **DIALYT 5x35 binoculars** with a new lens system and a rounded housing. It still has the pentaprism system, but the "dialytic" (splitted) objective system will give its name to many future binoculars.



1902: The DIALYT 5x35 with dialytic lens, pentaprism and new, rounded housing according to DRGM No. 166.411: "Cover for prism telescopes with rounded corners."

The optical design of the new Dialyt binoculars with pentaprism and a two-piece, "dialytic" (= splitted) objective, which allows shorter designs with good correction and compact prisms.

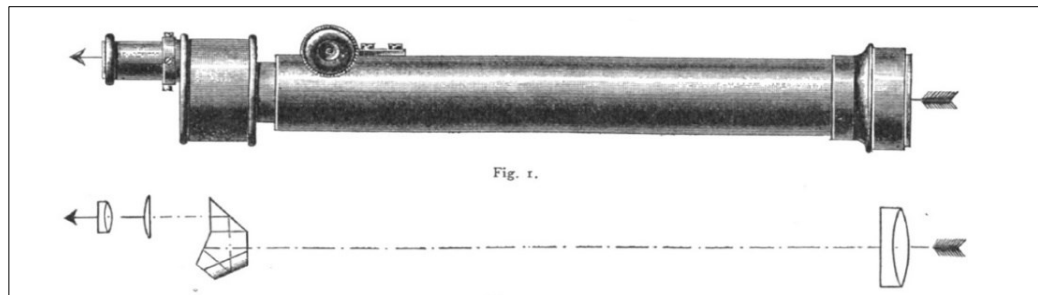
Dialytic telescopes were first constructed by Plössl around 1830. Hensoldt mentioned it in an objective catalogue 1896.



1903

Central-Zeitung für Optik & Mechanik

In 1903 the Hensoldt company publishes an article in the "Central-Zeitung für Optik und Mechanik" about a new **terrestrial telescope with a pentaprism**.



1903: Terrestrial telescope with roof pentaprism, 27 cm long. Comparable lens model = 38 cm long. DRGM No. 169.732: "Geodetic telescope provided with a prism system between astronomical eyepiece and lens."

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1904

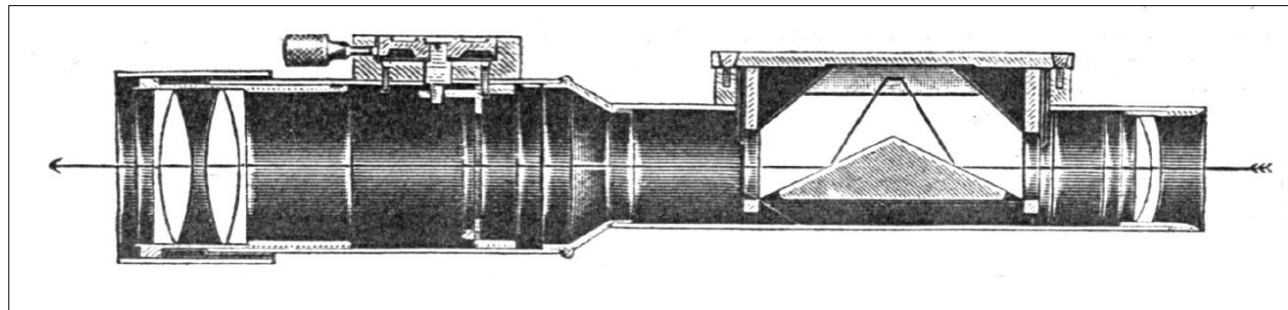
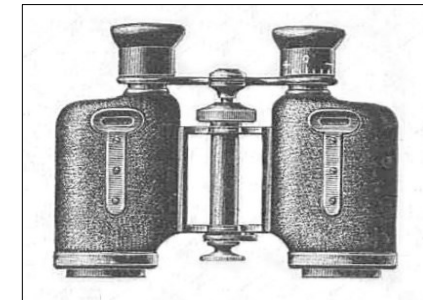
Catalogue no. 9 (January 1904)

Rounded housing cast from one piece. Enamel cover instead of leather.

The lens can be unscrewed and the prism easily removed for cleaning. All models are also available as monoculars.

Also in 1904: The first **straight-sighted prism riflescope** is introduced and causes great attraction.

No. 1 - 4x18 Theaterglas	155 m FoV 9,3 cm H	Opera
No. 2 - 5x22,6 Jagdglas	125 m FoV 12,2 cm H	Jagdglas
No. 3 - 7x22,6 Feldstecher	99 m FoV 12,2 cm H	Penta
No. 4 - 6x26 Pirschglas	105 m FoV 12,2 cm H	Diana
No. 5 - 7x26 Feldstecher	99 m FoV 12,2 cm H	Feldstecher
No. 6 - 9x26 Feldstecher	73 m FoV 12,2 cm H	Novies
No. 7 - 12x26 Feldstecher	55 m FoV 12,2 cm H	Duodecies
No. 12 - 12x50 Marineglas	58 m FoV 19,5 cm H	Marine
No. 13 - 10x50 Spezial Jagdglas	70 m FoV 19,5 cm H	Nimrod
Dialyt 5x35 Special hunting glass	120 m FoV 15 cm H dialyt. lens	Dialyt



Riflescope 2.5x20.5 with straight roof prism (DRGM No. 205.360?).

A.G.v.Herény writes in "The Shooting" (No. 12, Sept. 1904):

"Now in the spring of 1904 a new invention came like a bomb, which combined everything that I had expected in vain for years."

After the use in riflescopes, this straight lined prism system is adapted for binoculars.

Carl Hensoldt 1908: The successful use of the straight lined roof prism in Hensoldt's prism telescopic sights and the resulting straight and slender shape of the instruments, which differs little from terrestrial telescopes, prompted the company to consider its use for the construction of handheld binoculars / telescopes."

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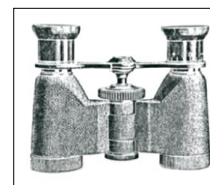
Walter J. Schwab | Hüttenberg

1905 Catalogue no. 10 (August 1905)

The new HENSOLDT ROOF PRISM replaces the pentaprism and gets DRP 180.644. Compared to the previous pentaprism, the new system needs **no mirroring** and shows **no axis offset**. According to the brochure, it is a one-piece system, i.e. cemented, in contrast to Albert König's ZEISS patent (with an air gap). The prism body is kept very slim and can be removed from the objective side for cleaning. The case is made of aluminum alloy with enamel coating. All models are also available as monoculars.

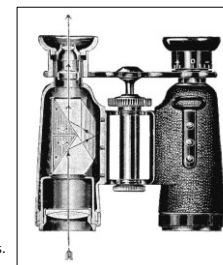
No. 1 - 3,5x15 Theaterglass (Mod. 1905)	172 m FoV closed hinge 9,3 cm H 85 Mark
No. 2 - 6x26 Universalglas (Mod. 1905)	112 m FoV 13,4 cm H 125 Mark
No. 3 - 7x26 Feldstecher (Mod. 1905)	96 m FoV 13,4cm H 135 Mark
No. 4 - 9x26 Reiseglas (Mod. 1905)	76 m FoV 13,4 cm H 145 Mark
No. 5 - 12x26 Sportglas (Mod. 1905)	56 m FoV 13,4 cm H 160 Mark
No. 6 - 6x35 Dialyt II (Mod. 1905)	120 m FoV 16 cm H 150 Mark
No. 7 - 10x50 Nimrod II (Mod. 1905)	70 m FoV 19 cm H 240 Mark
No. 8 - 12x50 Marine (Mod. 1905)	58 m FoV 19 cm H 260 Mark

- Opera
- Universal
- Feldstecher
- Reiseglas
- Sportglas
- Dialyt
- Nimrod
- Marine

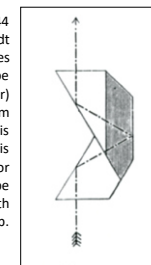


Opera

Universal glass, without dialytic lens.



New DRP 180.644 straight lined Hensoldt roof prism, which goes back to Amici, Abbe and König. The (center) beam passage from prism 1 to 2 is perpendicular and this area is not used for reflection. It can be cemented or used with an air gap.



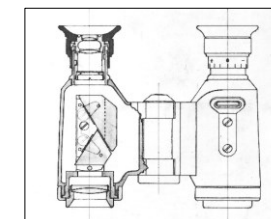
1907 Catalogue "Armeegläser 07"

The **army glasses** are also fitted with the straight "Hensoldt roof prism". Easy cleaning possible. Single eyepiece focussing.

6x18 Infanterieglass	120 m SF 340 g	J.G.07
6x26 Armeeglas	112 m SF 355 g	A.G. 6x
7x26 Armeeglas	96 m SF 355 g	A.G. 7x
10x50 Armeeglas	75 m SF 955 g	A.G. 10x
6x35 Offizier-Jagdglas	120 m SF 610 g	O.J. 6x
8x35 Offizier-Jagdglas	90 m SF 610 g	O.J. 8x



Infanterie-Glas 6x18



1908 Carl Hensoldt: Das Hensoldt-Werk

New, **geodesic prism telescope** with straight Hensoldt roof prism.



Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1908

Catalogue no. 11 (Autumn 1908)

New designation **WACHT** (= **Waldemar Carl Hensoldt** ?) for the roof prism glasses with new **Euryscope (Euroscope) eyepieces** and large fields of view as well as **WALKAR** for the "extra-light" hiking glasses. When comparing the values to catalogue No. 10 (1905), there are differences of between 10 % and 30 %. Center focussing is standard, but all are also available with ET or monocular. Enamel coating. Strap eyelet screwed on. Lens barrel can be screwed off.

Roof prisms (Wacht)

No. 1 - 3,5x15 Theaterglas	220 m FoV 310 g MT 9,3 cm H 100 Mark	Opera
No. 2 - 6x26 Universalglas	125 m FoV 350 g MT 13 cm H 125 Mark	Universal
No. 3 4 - 8x26 Reiseglas	100 m FoV 350 g MT 13 cm H 140 Mark	Reiseglas
No. 5 - 12x26 Sportglas	64 m FoV 355 g MT 13,7 cm H 160 Mark	Sportglas
No. 6 - 6x35 Dialyt II	148 m FoV 610 g MT 15,6 cm H 150 Mark	Dialyt
No. 7 - 10x50 Nimrod II	90 m FoV 960 g MT 19,3 cm H 240 Mark	Nimrod
No. 8 - 12x50 Marineglas	70 m FoV 980 g MT 19,3 cm H 260 Mark also 16x 280 Mark oder 18x 290 Mark	Marine



WACHT logo
(from 1908 to 1920).



Another WACHT logo
from 1908 for 3 - 4 years.

Roof prisms "Extra-light" (Walkar)

No. 9 - 6x18 Walkar I	125 m FoV 270 g 10,2 cm H "Extra light"	Walkaron
No. 10 - 8x26 Walkar II	100 m FoV 290 g 13 cm H "Extralight"	Walkarto

„Extra-light“. Trade Mark: „Walkar“.

WALKAR appears first for extra-light roof prism glasses. Later the name is used for Galilean glasses, STEREO-WALKAR for Porro glasses.

1909

Military glasses

All models have the Hensoldt roof prism and a single eyepiece focussing ET. The black enamel coating can be made in field gray on request. The carrying eyelet is already integrated in the housing for small glasses. All are also available as monoculars.

6x18 Kleines Infanterieglas 07	125 m FoV 350 g ET 10 cm H solid hinge
6x26 Armeeglas	125 m FoV ET 13 cm H solid hinge
8x26 Armeeglas	100 m FoV ET 13 cm H solid hinge
10x50 Artillerie- und Marineglas	90 m FoV 950 g ET
6x35 Armee-Dialyt	150 m FoV ET open hinge
8x35 Armee-Dialyt	100 m FoV ET open hinge



Kleines Infanterieglas

Armeeglas

Armee-Dialyt

Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1911

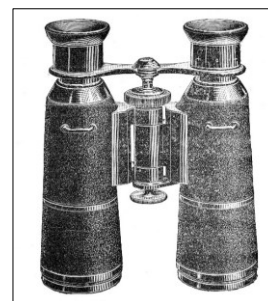
Catalogue no. 12

PORRO binoculars appear for the first time. Their name is **STEREO WALKAR**.

The glasses have center focussing or with ET (20 g lighter) or as a monocular. The carrying eyelet is no longer screwed on, but part of the housing.

Roof prisms (Wacht)

3,5x15 Theaterglas	220 m FoV 320 g 9,3 cm H solid hinge	Opera
6x26 Universalglas	125 m FoV 350 g 13 cm H solid hinge	Universal
8x26 Reiseglas	110 m FoV 350 g 13 cm H solid hinge	Reiseglas
12x26 Sportglas	64 m FoV 335 g 13,7 cm H	Sportglas
6x36 Jagd-Dialyt	148 m FoV 550 g 15,6 cm H	Dialyt
8x50 Marine-Dialyt	110 m FoV 920 g 20 cm H	Marine
10x50 Nimrod	90 m FoV 910 g 19,3 cm H. Also available with 16x and 18x, 3 cm higher.	Nimrod



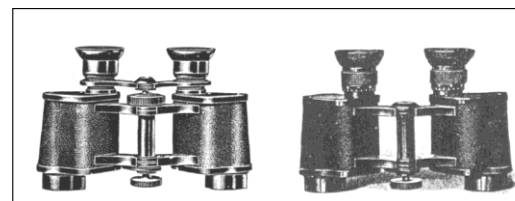
1910



1911

Porro prisms (Stereo-Walkar)

6x24 Telsex	130 m FoV 490 g 10,7 cm H
8x24 Telacht	115 m FoV 490 g 10,7 cm H
6x30 Teljagd	150 m FoV 610 g 11,8 cm H
12x30 Telzwölf	65 m FoV 610 g 11,8 cm H



Stereo-Walkar x24 mm (MT and ET).

Stereo-Walkar

Name from 1911 for Porro binoculars.

1912

Flyer

Two **Galilean glasses** without an adjustable hinge are introduced as hunting and field glasses.

4x42 Hunting- and fieldglass A	135 m FoV 340 g 11 cm H 50 M	Galivier
5x50 Hunting- and fieldglass B	100 m FoV 395 g 12,5 cm H 60 M	Galifünf

Without adjustable hinge.



Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1914

Catalogue no. 13 (Hunting)

All roof prism binoculars are called **Dialyt** and have improved **4-lens eyepieces** (DRP 270.274 from 1912).
New are a Porro model **STEREOR** (instead of Stereo-Walkar!) and (for a short time) four Galilean glasses **WALKAR** with fixed or variable hinges.

Roof prisms (Wacht)

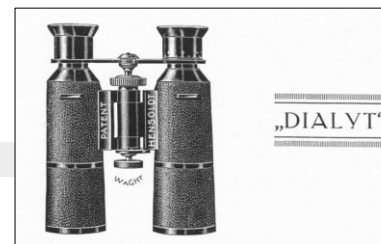
6x26 Universal-Dialyt	125 m FoV 350 g 13 cm H MT + ET 125 M	Universal Sex
6x36 Jagd-Dialyt	150 m FoV 600 g 16 cm H MT + ET 160 M	Dialyt Disex
8x50 Marine-Dialyt	110 m FoV 950 g 20 cm H MT + ET 240 M	Marilyt Marine
10x50 Gebirgs-Dialyt (Nimrod)	90 m FoV 950 g 20 cm H MT + ET 240 M	Nimrod Nimryt

Galilean (Walkar)

3,5x42 Walkar Jagd- und Nachtglas	135 m FoV 360 g 9,5 cm H 45 M PD fest	Galidrei
5x52 Walkar Jagd- und Nachtglas	100 m FoV 360 g 12 cm H 75 M PD fest	Galifünf
4x43 Walkar Jagd- und Feldglas	110 m FoV 520 g 11,5 cm H 55 M PD variabel	Galivier
6x43 Walkar Jagd und Feldglas	75 m FoV 520 g 11,5 cm H 60 M PD variabel	Galisex

Porro prisms (Stereor)

6x30 Teljagd	150 m FoV 650 g 12 cm H MT + ET 150 M	Teljagd
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All roof prism binoculars are named DIALYT



Left: Walkar 3,5x and 5x with fixed hinge.
Right: Walkar 4x and 6x with adjustable hinge.



Logo STEREOR for Teljagd

1917

Military glasses
Price list 15.9.1917

All models with single eyepiece focussing (ET).

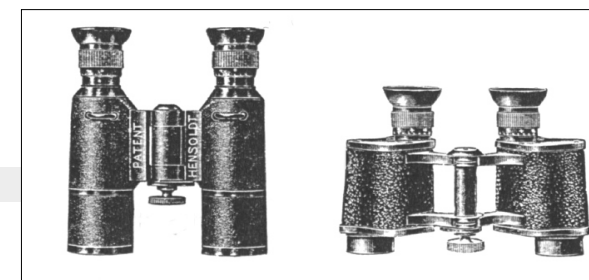
Roof prisms (Wacht)

6x26 Armeeglas	125 m FoV 300 g 13 cm H	Sechs
8x26 Armeeglas	100 m FoV 300 g 13 cm H	Acht
6x36 Armee-Dialyt	150 m FoV 550 g 15 cm H also 8x	Disex
8x50 Marineglas	110 m FoV 950 g 20 cm H	Marine
10x50 Artillerieglas	90 m FoV 950 g 20 cm H	Zehn

Porro prisms (Stereo-Walkar)

6x24 Stereo-Walkar	130 m FoV 465 g 11 cm H	Telsexio / Nulldrei
8x24 Stereo-Walkar	115 m FoV 465 g 11 cm H	Telachtio / Achtmal
6x30 Marine Jagdglas (Stereo-Walkar)	150 m FoV 580 g 12 cm H	Teljagdio / Dreißeig

Left: Armee-Dialyt (ET).
Right: Stereo Walkar (ET).



Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1919

Cat. L.14.1.IV.19 (Hunting, Swiss);
Price list DE 20.5.1919

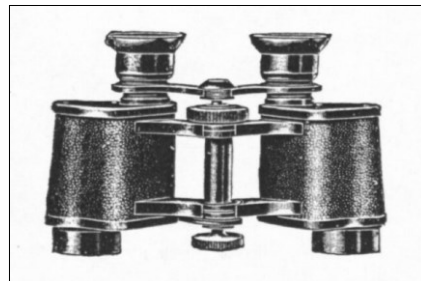
After the War, some of the heavy Dialyt glasses are launched, which are later referred to as **Hindenburg models**. In addition, the porro glasses (Stereo Walkar) are available again with slightly different data. The prices are valid in Germany from May 20, 1919.

Roof prisms (Dialyt / Wacht)

6x36 Jagd-Dialyt	160 m FoV 750 g 18 cm H 425 Mark	Dialyt
8x50 Marine-Dialyt	120 m FoV 1000 g 21 cm H 600 Mark	Marine
10x50 Gebirgs-Dialyt	95 m FoV 1.100 g 25 cm H 600 Mark	Nimrod
16x50 Gebirgs-Dialyt (Tele Dialyt)	45 m FoV 1.100 g 25 cm H 675 Mark	Sechzehn
18x50 Gebirgs-Dialyt (Astro Dialyt)	40 m FoV 1.100 g 25 cm H 687,50 Mark	Achtzehn

Porro prisms (Stereo-Walkar)

6x24 Telsex	120 m FoV 500 g 11 cm H 300 Mark	Telsex
8x24 Telacht	100 m FoV 500 g 11 cm H 325 Mark	Telacht
6x30 Teljagd	150 m FoV 630 g 12 cm H 375 Mark	Teljagd



„Dialyt“.

Unsere Werkstätte hat sich seit ihrer Gründung im Jahre 1852 ausschliesslich mit Herstellung von Präzisionsoptik beschäftigt, sie wird wissenschaftlich und von Fachleuten zu den ersten ihrer Art gerechnet: sie hat es daher nicht nötig, eine Leistung ihrer Erzeugnisse vorzutauschen, die in Wirklichkeit nicht vorhanden ist. Sie kommt für ihre Angaben unbedingt auf und hat auf dieser ehrlichen geschäftlichen Grundlage ihren guten Ruf aufgebaut und fest begründet.

Das Bestreben, die Leistungsfähigkeit des Fernglases in jeder möglichen Richtung zu steigern, führte Hensoldt zur Herstellung des gradlinigen Dachprismas und dessen Einführung in die Fernglastechnik.

Wir besitzen darauf Patentrechte. Die Vorteile seiner Anwendung sind: Gänzlich von den bisherigen schwerfälligen, dreieckigen Körpern abweichende, *schlanke und gedungene Form, geringes Gewicht, gesteigerte optische Leistung, namentlich erweitertes Sehfeld und grössere Helligkeit.*

Jagd-Dialyt 6 ×, (56 mm Objektiv) steht seit Erscheinen an der Spitze! Keine Anstrengung der Konkurrenz hat diese Stellung erschüttern können. Das beweisen der stetig steigende grosse Absatz und die zahlreichen freiwilligen Anerkennungen seiner Käufer; wo immer in Wettbewerb tretend, schaltet es durch die Ueberlegenheit seiner Leistung andere einfach aus.

Marine-Dialyt 8 ×, (50 mm Objektiv), *Gebirgs-Dialyt* (Nimrod) 10 ×, (50 mm Objektiv), besitzen infolge der beträchtlich grösseren Objektive trotz der gesteigerten Vergrösserung enorme Helligkeit. Sie sind daher auch für Jagdzwecke als besonders brauchbar und namentlich für Hochgebirgsjagden als vorteilhaft zu empfehlen.

„Stereo-Walkar“.

Bei dem neuen Modell „Stereo-Walkar“ hat zwecks Erhöhung der Lichtstärke eine Vergrösserung der Objektive so weit stattgefunden, wie es sich mit dem Bestreben, Volumen und Gewicht zur Förderung der Handlichkeit bei

Verwendung von Porro-Prismen soweit wie möglich herabzusetzen, vereinbaren liess. Durch Anwendung neuer Orthoskop-Okulare ist eine beträchtliche Erweiterung des Sehfeldes und grösste Bildschärfe bis zum Rande erreicht.

Gelenk und Hauptkörper sind zur Erhöhung der Stabilität wie bei dem Modell mit Dachprisma aus einem Stück gegossen.

Die Verschlussplatten greifen weit über die Hauptkörper und sind von dem Gelenk und von der in den Hauptkörpern eingebauten Optik gänzlich unabhängig.

Für Jagdzwecke kommt davon nur das Glas „Teljagd“ (50 mm Objektiv) in Betracht.

Weitere Vorzüge der Hensoldt-Ferngläser:

Hervorragende Bildschärfe, bei grossem Sehfeld, bis zum Rand desselben.

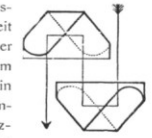
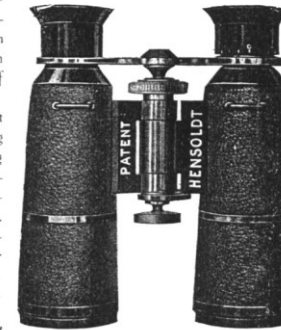
Ausserst handliche Form bei eleganter Ausstattung.

Einstellbarkeit auf jeden Augenstand, mit Festklemmvorrichtung.

Mechanisch vollkommene, tropensichere Konstruktion.

Reine Plastik der Bilder, von keinem anderen Erzeugnis übertroffen!

DIALYT.



Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1920 -
1924

Catalogues / Price lists
L.19.1.8.20; L.21.20.10.21;
L.22.1.11.22; L.22.E.1.4.23 (USA);
L.22.15.2.23; L.22.1.7.24

After 1920 the name **WACHT** is no longer used. From 1923, the Porro glasses were called **STEREOR-WALKAR** (instead of Stereo-Walkar). Huge price increases followed from 1921. The 6x36 Hunting Dialyt cost exactly 2,000 Mark on October 20, 1921. One year later it is already 4,600 M and at the peak of inflation according to the price list of Febr. 15, 1923 almost half a million Mark (495,000 Mark). In general the hunting catalogues (including rifle scopes) contain a smaller selection of Porro glasses compared to the pure binocular catalogues.

Dialyt roof prisms (in brackets the US names)

3,5x15 Theaterglas (Gem Dialyt)	220 m FoV 320 g 10,3 cm H	Opera
6x26 Universal-Dialyt (Universal Dialyt)	125 m FoV 350 g 10,7 cm H	Universal
6x36 Jagd-Dialyt (Ideal Dialyt)	160 m FoV 770 g 18 cm H	Dialyt
8x50 Marine-Dialyt (Marine Dialyt)	120 m FoV 1000 g 21 cm H	Marine
10x50 Gebirgs-Dialyt (Mountain Dialyt)	95 m FoV 1.100 g 25 cm H	Nimrod
16x50 Gebirgs-Dialyt (Tele Dialyt)	45 m FoV 1.100 g 25 cm H	Sechzehn
18x50 Gebirgs-Dialyt (Astro Dialyt)	40 m FoV 1.100 g 25 cm H	Achtzehn



The new Hensoldt Wetzlar logo replaces the WACHT logo in 1920/21.



Theaterglas 3,5x15



Universal-Dialyt 6x26



Gebirgs-Dialyt 10x50. One of the heavy so called "Hindenburg" Dialyts.

Stereo-Walkar Porro prisms (from 1923 Stereoor-Walkar)

6x24 Telsex	120 m FoV 500 g 11 cm H
8x24 Telacht	100 m FoV 500 g 11 cm H
6x30 Teljagd	150 m FoV 630 g 12 cm H
8x30 Telachtar	110 m FoV 640 g 12 cm H
12x30 Telzwölf	65 m FoV 650 g 12 cm H

STEREOR-WALKAR

New name from 1923 instead former Stereo-Walkar

Telsex 6x24



1925

Catalogue L.23.VI.25 (Hunting)
Pricelist L.23.6.25

All binoculars from the above catalogues are still in the program. The 6x26 Universal Dialyt and 6x36 Jagd Dialyt models are available with **magnifying function for very short distances**.

The Dialyt range is expanded to include:

6x26 Universal-Dialyt with magnifier	The right lens can be pulled out by 15 mm on both models.
6x36 Jagd-Dialyt with magnifier	
8x36 Grossfeld-Dialyt	150 m FoV 850 g 18 cm H "Wide field" ocular

Jagd-Dialyt 6x36 with magnifier.



Porro prisms (Stereoor-Walkar)

The 8x30 Telgon with a very wide field of view replaces the previous Telachtar.

6x24 Telsex	120 m FoV 500 g 11 cm H
8x24 Telacht	100 m FoV 500 g 11 cm H
6x30 Teljagd	150 m FoV 630 g 12 cm H
8x30 Telgon	150 m FoV 630 g 12 cm H
12x30 Telzwölf	65 m FoV 650 g 12 cm H

Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1926
1927

Dealer-Cat. Lustig & Co, Dresden;
Christmas-Catalogue L.27.XI.26;
Catalogue L.32.15.IV.27 (Hunting)

New and light **Dialyt models 1926** with revised prism system and **open hinge**.

These include new **Dialytes with a 42 mm lens diameter**.

New wide field eyepieces with 150 m FoV at 8x.

In addition to the Stereor-Walkar glasses, "**Special Glasses**" form a new Porro entry-level class from end of 1926.

Dialyt Model 1926 (open hinge)

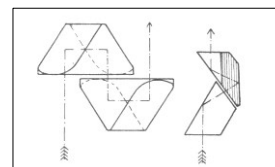
5x18 Reise-Dialyt Mod. 1926	130 m FoV 300 g 11 cm H	Reise
6x30 Universal-Dialyt Mod. 1926	125 m FoV 390 g 13,5 cm H	Welt
6x42 Jagd-Dialyt Mod. 1926	150 m FoV 750 g 18 cm H	Nacht Jagd
8x42 Grossfeld-Dialyt Mod. 1926	150 m FoV 750 g 18 cm H Large field ocular	
8x50 Hirsch-Dialyt Mod. 1926	120 m FoV 850 g 21 cm H	Hirsch



New models 1926:
Reise-Dialyt 5x18
Universal-Dialyt 6x30
Jagd-Dialyt 6x42
Hirsch-Dialyt 8x50

Dialyt (old models with solid hinge)

3,5x15 Theaterglas	220 m FoV 320 g 10,3 cm H	Opera
6x26 Universal-Dialyt	125 m FoV 350 g 10,7 cm H	Universal
6x36 Jagd-Dialyt	150 m FoV 770 g 18 cm H	Dialyt
6x26 Universal-Dialyt mit Lupenfunktion	125 m FoV 350 g 10,7 cm H	
6x36 Jagd-Dialyt mit Lupenfunktion	150 m FoV 770 g 18 cm H	
8x36 Grossfeld-Dialyt	150 m FoV 850 g 18 cm H Large field ocular	Motor
8x50 Marine-Dialyt	120 m FoV 1000 g 21 cm H	
10x50 Gebirgs-Dialyt (Mountain Dialyt)	95 m FoV 1100 g 25 cm H	Nimrod
16x50 Gebirgs-Dialyt (Tele Dialyt)	45 m FoV 1100 g 25 cm H	Tele
18x50 Gebirgs-Dialyt (Astro Dialyt)	40 m FoV 1100 g 25 cm H	Astro



Size comparison of porro and new roof prism (with air gap) for a 30 mm objective system.



Old dialyt model
Universal 6x26.

Porro (Stereor-Walkar)

Same products as 1925

Porro (Spezialglas, new entry level)

8x24 Spezialglas	69 RM
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8x24 Spezialglas

Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1928

Catalogue L.38.X.28 (Hunting)

In 1928 the **Carl Zeiss Foundation** in Jena takes over the majority of shares in HENSOLDT in Wetzlar.

In the same year, the product **range is streamlined**. Only three new Dialyt models 1926 are in the program.

From now only **standard lens diameters of 30 mm, 42 mm and 50 mm** will be offered, additional 24 mm for Porro lenses. Exception: The later GALYT.

Roof prisms (Dialyt)

6x30 Universal-Dialyt	125 m FoV 390 g 13,5 cm H 135 RM
6x42 Jagd-Dialyt	150 m FoV 750 g 18 cm H 180 RM
8x50 Hirsch-Dialyt	120 m FoV 850 g 21 cm H 230 RM

Porro prisms

6x24 Spezialglas	120 m FoV 500 g 11 cm H 78 RM
8x24 Spezialglas	100 m FoV 500 g 11 cm H 78 RM
6x30 Jagdglas	150 m FoV 630 g 12 cm H 110 RM
6x30 Teljagd	150 m FoV 630 g 12 cm H 135 RM



From about 1928 the "written" Hensoldt appeared up regularly.

1929

Catalogue L.43.XII.29 (Hunting)

The Dialyt series is expanded by a **Dialyt 7x50** model.

The Galilean glass **GALYT** is added. This binoculars remain in the program in a total of three variants until 1961.

All 1928 models are available, plus two new models:

7x50 Marine-Dialyt	128 m FoV 850 g 21 cm H 220 RM
4x40 Galyt (Version I)	150 m FoV 330 g 10 cm H 60 RM.



Galyt Version I (1929 to 1934).
Narrow hinges, axle protrudes below.



Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1930

Catalogue 46.V.30 (Binoculars)

There is **no change to the Dialyt models.**

The Porro glasses are split in high quality **Stereor-Walkar** and cheaper **Wide Field (Grossfeld)** models as successor to the "Special Glasses". However, this distinction can be found only in the pure binocular catalogues, not in the hunting catalogues.

Roof prisms (Dialyt)

6x30 Universal-Dialyt	125 m FoV 390 g 13,5 cm H 135 RM	Universal
6x42 Jagd-Dialyt	150 m FoV 750 g 18 cm H 180 RM	Jagd
7x50 Marine-Dialyt	128 m FoV 850 g 21 cm H 220 RM	Marine
8x50 Hirsch-Dialyt	120 m FoV 850 g 21 cm H 230 RM	Hirsch

Porro high-quality (Stereor-Walkar)

6x24 Telsex	160 m FoV 490 g 10 cm H 110 RM	Telsex
8x24 Telacht	150 m FoV 490 g 10 cm H 120 RM	Telacht
6x30 Teljagd	150 m FoV 630 g 12 cm H 130 RM	Teljagd
8x30 Telgon	150 m FoV 640 g 12 cm H 140 RM	Telgon

Porro standard (Large field, Model 1930)

6x24 Grossfeld	150 m FoV 470 g 11 cm H 84 RM
8x24 Grossfeld	145 m FoV 470 g 11 cm H 84 RM

Porro (other)

6x30 Jagdglas	150 m FoV 630 g 16,5 cm H 110 RM
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Galilean

4x40 Galyt I	150 m FoV 330 g 10 cm H 48 RM	Galyt
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Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1931

Catalogue L.48.Nov.31 (Binoculars)

The new Dialyt serie will be expanded from four to seven types, plus two new Porro binoculars.
All binocular prices are for the MT (center focussing). Including leather case and strap. Each model is available as a monocular at half price.

Roof prisms (Dialyt)

6x30 Universal-Dialyt	125 m FoV 390 g 13,5 cm H 135 RM
8x30 Sport-Dialyt	110 m FoV 390 g 13,5 cm H 140 RM
6x42 Jagd-Dialyt	150 m FoV 750 g 18 cm H 180 RM
7x50 Marine-Dialyt	128 m FoV 850 g 21 cm H 220 RM
8x50 Hirsch-Dialyt	120 m FoV 850 g 21 cm H 230 RM
10x50 Gebirgs-Dialyt	95 m FoV 890 g 25 cm H 240 RM
16x50 Tele-Dialyt	45 m FoV 900 g 25 cm H 275 RM

Porro high-quality (Stereor-Walkar)

6x24 Telsex	160 m FoV 490 g 10 cm H 110 RM
8x24 Telacht	150 m FoV 490 g 10 cm H 120 RM
6x30 Teljagd	150 m FoV 630 g 12 cm H 130 RM
8x30 Telgon	150 m FoV 640 g 12 cm H 140 RM
12x30 Telzwölf	65 m FoV 640 g 12 cm H 160 RM

Porro standard

6x24 Grossfeld	150 m FoV 470 g 11 cm H 84 RM
8x24 Grossfeld	145 m FoV 470 g 11 cm H 84 RM
6x30 Jagdglas (bis 1933)	150 m FoV 630 g 12 cm H 110 RM
8x30 Sportglas (bis 1933)	150 m FoV 640 g 12 cm H 120 RM

Galilean

4x40 Galyt I	150 m FoV 330 g 10 cm H 48 RM
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24 mm large field Porro.



Monoculars.



Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1932

Catalogue L.50.June.32 (Hunting);
Deutsch. Jägerzeitung 2.12.1932

The revised **Dialyt models 1932** are a bit heavier, but they have a larger field of view due to the new Hensoldt roof prism.
On December 2, 1932, the "Deutsche Jägerzeitung" presents the new **NIGHT-DIALYLT 7x56 and 8x56**.

Roof prisms (Dialyt)

6x30 Universal-Dialyt (Model 1932)	145 m FoV 450 g 13,5 cm H 120 RM
8x30 Sport-Dialyt (Model 1932)	125 m FoV 450 g 13,5 cm H 126 RM
6x42 Jagd-Dialyt	150 m FoV 750 g 18 cm H 162 RM
7x50 Marine-Dialyt	128 m FoV 850 g 21 cm H 198 RM
8x50 Hirsch-Dialyt	120 m FoV 850 g 21 cm H 207 RM
10x50 Gebirgs-Dialyt	95 m FoV 890 g 25 cm H 216 RM
16x50 Tele-Dialyt	45 m FoV 900 g 25 cm H 245 RM
7x56 Nacht-Dialyt	115 m FoV 925 g 22 cm H 245 RM
8x56 Nacht-Dialyt	115 m FoV 925 g 22 cm H 255 RM

Porro

6x24 Grossfeld	150 m FoV 470 g 11 cm H 75 RM
8x24 Grossfeld	145 m FoV 470 g 11 cm H 75 RM
6x30 Jagdglas	150 m FoV 630 g 12 cm H 99 RM
8x30 Sportglas	150 m FoV 640 g 12 cm H 108 RM
6x30 Teljagd	150 m FoV 630 g 12 cm H 117 RM

Galilean

4x40 Galyt I	150 m FoV 330 g 10 cm H 41 RM
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*Night-Dialyt 8x56.
It will be modified from time
to time but remains in the
production until 2016*



1933

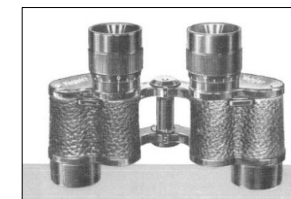
Cat. S.K.1.May.33 (Opt. Instr.);
Flyer W.S.I.Sept.33 (Wehrsport)

There is a new **Wehrsport 6x24 ET Porro binoculars**, which will be renamed **Geländesport** in the following year.
The fields of view of the Grossfeld (Large Field) Porro glasses become wider (Model 1933).

The roof prism models and the GALYT remain, the Porro line is as follows:

6x24 Wehrsport ET (Porro)	160 m FoV 470 g 10 cm H 79 RM
6x24 Grossfeld (Model 1933)	160 m FoV 490 g 10 cm H 84 RM
8x24 Grossfeld (Modell 1933)	150 m FoV 490 g 10 cm H 84 RM
6x30 Jagdglas	150 m FoV 630 g 12 cm H 99 RM
8x30 Sportglas	150 m FoV 640 g 12 cm H 108 RM
8x30 Telgon	150 m FoV 640 g 12 cm H 126 RM
12x30 Telzwölf	80 m FoV 640 g 12 cm H 144 RM

*Wehrsport 6x24 ET
(from 1934: Geländesport).*



Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1934
1935

Cat. L.57.RM. Okt. 1934 (Binos);
Cat. L.57.RM. Apr. 1935 (Binos)

Clear rearrangement of the Porro glasses in **high-quality 30 mm Stereor-Walkar** and **standard 24 mm large field models**.
The Galyt has been modified.

Roof prisms (Dialyt)

6x30 Universal-Dialyt	145 m FoV 450 g 13,5 cm H 120 RM
8x30 Sport-Dialyt	125 m FoV 450 g 13,5 cm H 126 RM
6x42 Jagd-Dialyt	150 m FoV 750 g 18 cm H 162 RM
7x50 Marine-Dialyt	128 m FoV 850 g 21 cm H 198 RM
8x50 Hirsch-Dialyt	120 m FoV 850 g 21 cm H 207 RM
10x50 Gebirgs-Dialyt	95 m FoV 890 g 25 cm H 216 RM
16x50 Tele-Dialyt	45 m FoV 900 g 25 cm H 245 RM
7x56 Nacht-Dialyt	115 m FoV 925 g 22 cm H 245 RM
8x56 Nacht-Dialyt	115 m FoV 925 g 22 cm H 255 RM

Porro high quality 30 mm (Stereor-Walkar)

6x30 Jagdglas	150 m FoV 630 g 12 cm H 99 RM
8x30 Sportglas	150 m FoV 640 g 12 cm H 108 RM
8x30 Telgon	150 m FoV 640 g 12 cm H 126 RM
12x30 Telzwölf	80 m FoV 640 g 12 cm H 144 RM

Porro standard 24 mm (large field)

6x24 Grossfeld	160 m FoV 490 g 10 cm H 84 RM
8x24 Grossfeld	150 m FoV 490 g 10 cm H 84 RM
6x24 Geländesport ET - auch mit Strichplatte	160 m FoV 470 g 10 cm H 79 RM

Galilean

4x40 Galyt (Version II)	150 m FoV 330 g 10 cm H 43 RM wide hinge
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Galyt Version II (1934)

Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1936

Cat. L.60.RM.July 1936 (Binos);
Flyer Nachtdialyt L.52.VI.36

The **42 and 56 mm Dialyt binoculars** are delivered as **light metal models (LM)** and have a new, more solid carrying strap attachment.
The same goes for the two Stereo-Walkar models Jagdglas and Sportglas.
A new famous bino is added: the **Jagd-Dialyt 7x42**.

Roof prisms (Dialyt)

6x30 Universal-Dialyt	145 m FoV 400 g 13,5 cm H 120 RM
8x30 Sport-Dialyt	125 m FoV 400 g 13,5 cm H 126 RM
6x42 Jagd-Dialyt (LM)	150 m FoV 500 g 18 cm H 162 RM
7x42 Jagd-Dialyt (LM)	145 m FoV 500 g 18 cm H 180 RM
7x50 Marine-Dialyt	128 m FoV 800 g 21 cm H 198 RM
8x50 Hirsch-Dialyt	120 m FoV 815 g 21 cm H 207 RM
10x50 Gebirgs-Dialyt	95 m FoV 880 g 25 cm H 216 RM
16x50 Tele-Dialyt	50 m FoV 890 g 25 cm H 245 RM
7x56 Nacht-Dialyt (LM)	115 m FoV 700 g 23 cm H 245 RM
8x56 Nacht-Dialyt (LM)	115 m FoV 700 g 23 cm H 255 RM

Vier Dialyt Größen
42 mm
56 mm
50 mm
30 mm



Porro high quality 30 mm (Stereor-Walkar)

6x30 Jagdglas (LM)	150 m FoV 410 g 12 cm H 99 RM
8x30 Sportglas (LM)	150 m FoV 430 g 12 cm H 108 RM
8x30 Telgon	150 m FoV 640 g 12 cm H 126 RM
12x30 Telzwölf	80 m FoV 640 g 12 cm H 144 RM

Porro standard 24 mm (large field)

6x24 Grossfeld	160 m FoV 490 g 10 cm H 84 RM
8x24 Grossfeld	150 m FoV 490 g 10 cm H 84 RM
6x24 Geländesport ET - also with reticle	160 m FoV 470 g 10 cm H 79 RM

Galilean

4x40 Galyt (Version II)	150 m FoV 330 g 10 cm H 43 RM wide hinge
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Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1937

Catalogue L.62. XI.37 (Binoculars);
Catalogue L.63.X.37 (Hunting)

All models are converted to light metal / alloy. The 6x30 is now also called Sport Dialyt instead of Universal Dialyt, like the 8x. There are two new 56 Dialyt models with 10 and 16x magnification. Carrying strap eyelets are modified. They are thicker and are no fixed directly on the housing.

Roof prisms (Dialyt)

6x30 Sport-Dialyt "extra leicht"	145 m FoV 290 g 14 cm H 120 RM
8x30 Sport-Dialyt "extra leicht"	125 m FoV 310 g 15 cm H 126 RM
6x42 Jagd-Dialyt	150 m FoV 500 g 17,5 cm H 162 RM
7x42 Jagd-Dialyt	145 m FoV 500 g 17,5 cm H 180 RM
7x50 Marine-Dialyt	128 m FoV 610 g 20,5 cm H 198 RM
8x50 Hirsch-Dialyt	120 m FoV 610 g 21 cm H 207 RM
10x50 Gebirgs-Dialyt	95 m FoV 630 g 25 cm H 216 RM
16x50 Tele-Dialyt	50 m FoV 640 g 26 cm H 245 RM
7x56 Nacht-Dialyt	115 m FoV 685 g 23 cm H 245 RM
8x56 Nacht-Dialyt	115 m FoV 685 g 23 cm H 255 RM
10x56 Nacht-Dialyt	100 m FoV 685 g 23 cm H 260 RM
16x56 Nacht-Dialyt	62 m FoV 685 g 23 cm H 265 RM

30 mm Sport-Dialyt
"extra leicht".



Porro standard 24 mm (Grossfeld)

6x24 Grossfeld	160 m FoV 400 g 11 cm H 84 RM
8x24 Grossfeld	150 m FoV 400 g 11 cm H 84 RM
6x24 Geländesport ET - also with reticle	160 m FoV 380 g 11 cm H 79 RM

24 mm Large Field Glass
with straight eyecups.



30 mm Stereor-Walkar
with straight eyecups.

Porro high quality 30 mm (Stereor-Walkar)

6x30 Jagdglas	150 m FoV 410 g 12 cm H 99 RM
8x30 Sportglas	150 m FoV 430 g 12 cm H 108 RM
12x30 Telzwölf	80 m FoV 410 g 12 cm H 144 RM

Galilean

4x40 Galyt	140 m FoV 300 g 10 cm H 43 RM
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Spotting scope

25x56 Monokular-Dialyt	30 m FoV 660 g 38 cm H 130 RM
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Monokular-Dialyt 25x56

Binoculars from Moritz Hensoldt and Sons, Wetzlar

From the beginning until 1939

Walter J. Schwab | Hüttenberg

1938
1939

Catalogue L.62.7.39 (Binoculars);
Preisliste RM.4000.8.39 (Binoculars); No change since 1937.
Catalogue L.64.IV.39 (Hunting)

*In total: Two 30 mm, two 42 mm, four 50 mm and four 56 mm Dialyt models.
Three 24 mm and three 30 mm Porro glasses, one Galilean GALYT and one monocular telescope*

After 1939, probably no more civilian brochures were printed until the end of the war.



