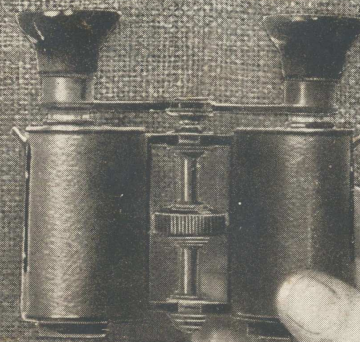


GOERZ PAGOR BINOCULARS



The inner circle shows the field of view obtained with an ordinary field glass, the outer, that seen with a Goerz Pagor Binocular of equal power.

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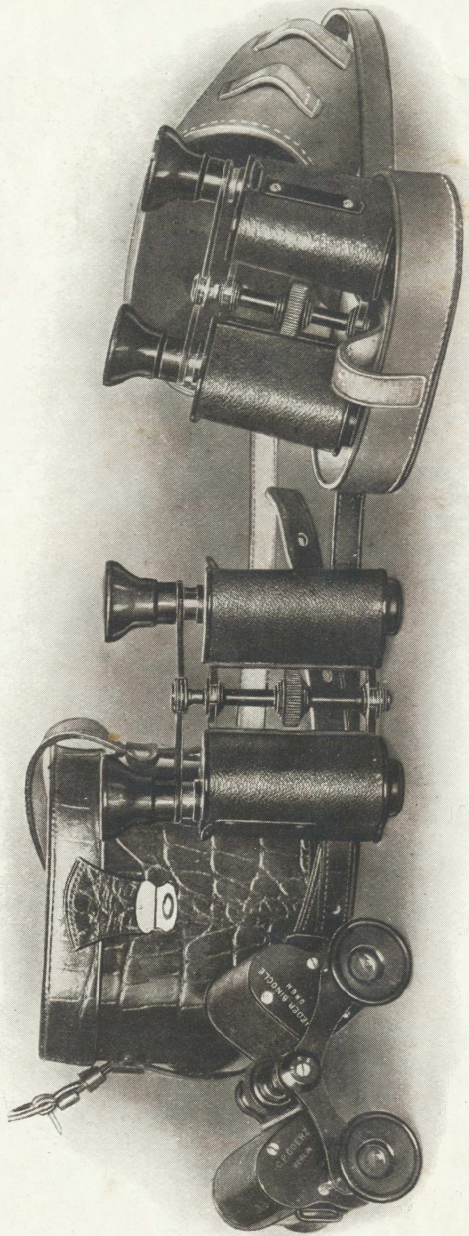


C. P. GOERZ,

Optische Anstalt, Akt. Ges.

Berlin, Friedenau,

London, Paris, Vienna,
St. Petersburg, New York & Chicago.



GOERZ "PAGOR" BINOCULARS.

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GOERZ PAGOR BINOCULARS.



Goerz "Pagor" Binoculars.

THE pleasures and advantages of the field glass are so many, that neither the traveller nor he who has to be content with occasional vacations can very well dispense with it. The field glass enhances the pleasures of the country. Its mere use itself make us more observant, and its magnification enables us to sweep the country round, and to witness scenes and actions miles away with the same vividness and clearness as if they were at our feet. With a field glass not only are the immediate surroundings but the country all around is unfolded like a panorama before the tourist's eyes. The rugged mountain top is brought as near to him as if he were standing upon its summit, the shore made as visible as if he were standing at the base of the cliff itself. The army and naval officer

GOERZ PAGOR BINOCULARS.

find a field glass indispensable, and to the racing man also it is a necessary article of his equipment. Hunting men and sportsmen all have occasion to use a glass.

Seeing the manifold uses of the field glass, it can be no matter of surprise that opticians have for years past been strenuously endeavouring to perfect the instrument. It was not, however, until the practical introduction of the prism glass some years since that the first decided step in advance was made, and this form of binocular at once sprung into favour owing to the fact that it reduced the weight and bulk of the glass, and at the same time enabled a magnification to be obtained previously beyond the possibility of a portable telescope, combined with a brilliancy of definition and field of view hitherto unknown. Of the many patterns of these binoculars which were introduced the Goerz Trieder Binoculars, on account of their compact, handy shape, their lightness, and portability, and above all the surpassing excellence of the optical system, were among the most popular. It has been reserved to the makers of this glass to introduce further improvements in the construction of the Prism Binocular, which is likely to still further popularize this particular type of instrument, and to make it even a greater favourite.

In the endeavour to obtain improvements which can in ordinary use be of little value, several manufacturers have considerably increased the size of their

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GOERZ PAGOR BINOCULARS.

binoculars, until in some cases these glasses have almost reached the size and bulk of the old Galilean glass they are intended to replace. We have introduced in the Goerz "Pagor" Binocular a glass which has all the properties expected in the finest type of prismatic field glass, and yet have made this smaller in size than the present Trieder Binoculars or, indeed, any other prism glass. The "Pagors" are hand telescopes which are no larger than the ordinary opera glass. Small, handy, and convenient in form, the "Pagor" may be easily carried in a pocket or in a lady's wrist bag without its weight or its size proving inconvenient. Small as the glass is, it is optically perfect. Its definition is particularly sharp and clear, and is equal from edge to edge of the picture. It has a large field of view, nine times greater than that of the ordinary type of field glass, while the power is the greatest that has yet been obtained in glasses of the same size.

We have above referred to the great reduction in the size of the "Pagor" glass. This has been achieved by a reduction in the dimensions of the optical system. While other opticians have been endeavouring to increase the illumination of their glasses by increasing the dimensions of the object glasses out of all proportion to the benefits obtained, we have sought to retain a similar amount of illumination as that given in our older pattern binoculars by constructing lenses and prisms of colourless glasses having as little absorption as possible.

GOERZ PAGOR BINOCULARS.

The success has been beyond expectation, as the optical system transmits to the eye the maximum amount of light which can in daytime be received by that organ.

In several patterns of binoculars where large object glasses are employed, the additional bulk is a positive disadvantage. Whatever benefits may follow the use of the larger object glasses, are rendered negligible by the prisms and other lenses being too small to receive the rays, so that although a much larger glass is carried the illumination is still no greater than that given by a very much smaller glass. But there are, of course, binoculars constructed with a greater regard to scientific accuracy, where the optical system is such that the light entering the object glass is transmitted to the eye, but even with these the advantage is only to be perceived at night, and then the power of the glass is generally too high to make it really efficient. It is by day that by far the majority of persons use their field glasses, and the pupil of the eye does not dilate sufficiently to receive the illumination given by an efficient glass of the large objective type. The additional bulk and weight are therefore, carried all to no purpose. One is burdened with a heavy, cumbersome instrument when a light, handy, and convenient "Pagor" is optically as perfect and gives equal illumination. It is for the prospective purchaser to decide whether it is best for him to select a glass so heavy as to be troublesome because he may very occasionally require to use it at night, when it will

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GOERZ PAGOR BINOCULARS.

not be so efficient as a regular night-glass, or whether he will not consider it better to carry with him a light "Pagor" Binocular which can be slipped into the pocket, will have the same power as the other glass, and at the same time as much illumination as can be utilized during the day.

If it is essential for a glass to be adopted which has large object glasses so that it can be used at night as well as by day, the Goerz "Pernox" Binocular should be adopted. This has not, of course, the compactness of the "Pagor," but the object glasses are larger, and the prisms and other lenses are so made and calculated that all the light entering the object glasses reaches the eyes. But even so perfectly constructed a glass has no advantage over the much smaller "Pagor" when used by day.

The Goerz "Pagor" Binoculars are focussed in the same manner as the ordinary opera glass by the rotation of a small wheel, a method much more accurate and convenient than the troublesome system of separately adjusting each eyepiece. Any inequality of vision can be easily compensated by a special adjustment on the right ocular.

The distance between the two bodies of the glass is variable and can be instantly arranged at the correct separation for the user's eyes.

The prisms used in the Goerz Glasses have no silvered surfaces to deteriorate and impair the definition

GOERZ PAGOR BINOCULARS.

of the glass as is the case with some binoculars of other makers. The glasses are perfectly achromatic and give an image entirely free from added colour.

From the preceding it will be seen that the Goerz "Pagor" Binoculars possess all the qualities desirable in a perfect field glass, and the fact that we have been able to retain the efficiency of earlier models and at the same time to reduce the size of the glass to so great an extent, encourages us to recommend the "Pagor" without hesitation to all users of the field glass.

Its definition is so perfect that clearly defined images can be obtained at distances which may not be observed with other and inferior glasses of the same magnifying power.

The **field of view is several times in excess** of that obtained with the most perfect Galilean glasses; and to give only one instance of the advantage of such an increased field, it may be mentioned that on the racecourse the whole of the horses could be kept in view, one's observation not being limited, as with the ordinary glass, to just one or two of the horses.

The **power is the greatest** which has ever been obtained in glasses of the same size, while the **compactness** makes it an ideal companion.

The Goerz Prism Binoculars are in use in every part of the world, and are officially adopted by many of the great Continental Armies. The same skill and excellence



GOERZ PAGOR BINOCULARS.

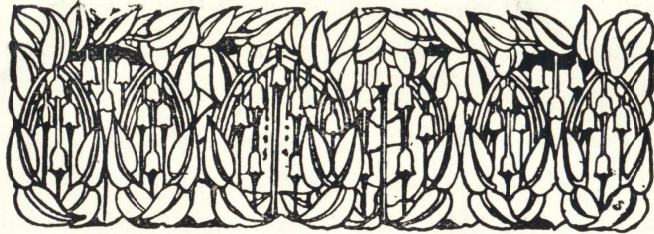
of design and workmanship which have made these glasses so popular will also go far to ensure a hearty reception for the new "Pagor."

For general outdoor use either the Goerz "Pagor" magnifying eight or ten diameters is to be recommended. The six times glasses will also be found excellent on those occasions when a high power is not required, and can also be used in the theatre, so that it becomes an excellent combined glass.

NOTE.—Occasionally small bubbles will be found in the object-glasses of prismatic glasses. These can be ignored, as they have no effect upon the vision, and cannot be regarded as a valid cause for complaint, since it is impossible to obtain the raw glass which has to be used in the construction of these binoculars free from such bubbles.



GOERZ PAGOR BINOCULARS.



Some Opinions on the Goerz Glasses, of which the "Pagor" is the latest development.

WAR SERVICE.

"I have just returned from South Africa and have much pleasure in testifying to the good qualities of your Trieder Binoculars. Their small size and weight, combined with great power, eminently adapt them for military use. The pair I had with me, No. 30, notwithstanding the rough usage they were subjected to on active service, are now as good as ever. They cannot be too highly praised."

"—— the Goerz Field Glasses I took to South Africa. I found them excellent on account of their lightness and large field."

RACING.

"C. P. Goerz has as near as possible hit the mark with his Goerz Trieder Binoculars. . . . At Newmarket, the widest course in England, where in the race for the Cambridgeshire horses come on in a line which extends right across the course, the scope of the Goerz Trieder Binocular embraces the whole field at the start, and brings it so close that one almost expects to hear the starter's admonitions at the post."

J. R. COBBETT.

FIELD NATURALISTS' WORK.

" . . . a starling suddenly flew up and settled in the field of view, and to all appearances was so close as to be almost within reach of my hand. Not only the spots of his plumage, but the

GOERZ PAGOR BINOCULARS.



very fibre of his feathers could be plainly seen. But on moving the glass cautiously, for I was really afraid of frightening the bird away from such close quarters, I found to my astonishment that it was a good forty yards away. This will give a good idea of the power of the glass, which is, without exception, the finest one I ever looked through."

R. B. LODGE.

"When I discarded the old form of field-glass and took to the Goerz Trieder Binocular, I saw Nature in a new light and I found what a deal I had missed through not procuring a pair before. With this wonderful glass a new world is opened to our view; the unknown side of nature is revealed."

OLIVER G. PIKE.

ASTRONOMY.

" I consider it (the Goerz Trieder Binocular) well suited for the observation of variable stars. The field is so large and the definition so good that it is a pleasure to observe with it."

J. E. GORE, F.R.A.S., M.R.I.A.

"This is the second of your Trieder Binoculars I have had, and I am never tired of recommending them to my friends, as I consider them simply perfect. . . . for all purposes on land, sea or the heavens; it is quite a delight to use it."

T. M. LONGBOTTOM.

A WORD FROM INDIA.

"I have two Goerz Monoculars which are exquisite. I have seen nothing to approach them in light, width of field, and definition."

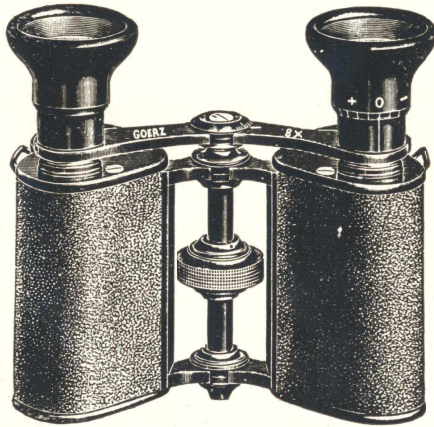
FROM THE FARTHEST SOUTH.

"I have much pleasure in telling you that I used a pair of your Binoculars at the lowest of temperatures and throughout the three years of the 'Discovery's' Antarctic Expedition, and found them of the greatest possible use throughout, and notwithstanding the roughest usage."

E. A. WILSON.

The Goerz Binoculars are in use in every quarter of the Globe, giving the greatest satisfaction.

Goerz
“Pagor” Binoculars.



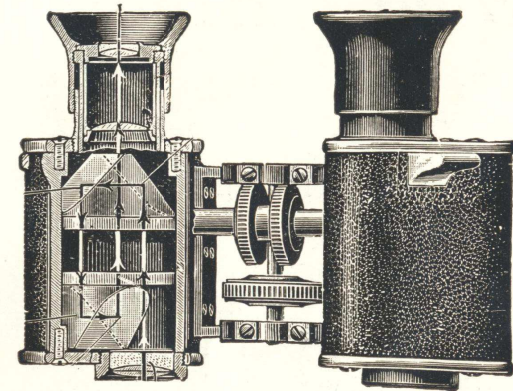
Goerz “Pagor” Binocular.
Magnifying eight diameters. Half natural size.

PRICES
Inclusive of Slings and Cases.

Goerz “Pagor” Binocular, ×6, weight, 10 ozs. Code Word: PERBUS	£6 10 0
Goerz “Pagor” Binocular, ×8, weight, 10 $\frac{3}{4}$ ozs. Code Word: PERGON	7 0 0
Goerz “Pagor” Binocular, ×10, weight 11 ozs. Code Word: PERGA	8 0 0

Either a buff-coloured leather case of the usual English style or a crocodile pattern case can be supplied. Unless otherwise instructed the former is usually delivered.

Goerz
Trieder Binoculars
and Monoculars.



These glasses, the original series of Goerz Prismatic Binoculars, have enjoyed a popularity of many years' standing. They have excellent optical qualities, but are somewhat larger and heavier than the “Pagor.”

PRICES.

Binocular.	Monocular.
Goerz Trieder Binocular, No. 10, ×3. Weight, 12 oz. Code Word: TRIAS	Goerz Trieder Monocular, No. 10, ×3. Weight, 4 $\frac{1}{2}$ oz. Code Word: MOTRIAS
£5 15 0	£2 5 0
Goerz Trieder Binocular, No. 20, ×6. Weight, 13 oz. Code Word: TRIBUS	Goerz Trieder Monocular, No. 20, ×6. Weight, 5oz. Code Word: MOTRIBUS
£6 10 0	£2 15 0
Goerz Trieder Binocular, No. 30, ×9. Weight, 16 oz. Code Word: TRIGON	Goerz Trieder Monocular, No. 30, ×9. Weight, 6oz. Code Word: MOTRIGON
£7 5 0	£3 0 0
Goerz Trieder Binocular, No. 40, ×12. Weight, 18 oz. Code Word: TRIO	Goerz Trieder Monocular, No. 40, ×12. Weight, 7oz. Code Word: MOTRIO
£9 10 0	£4 0 0

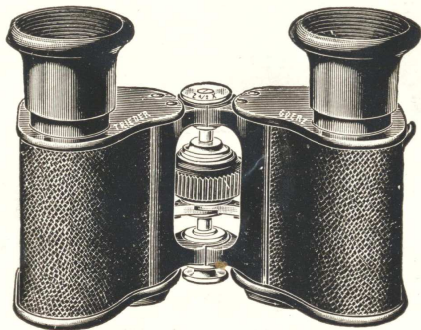
Leather Cases and Slings included in above prices.



Goerz "Fago" Binocular.

The Opera Glass De Luxe.

"FAGO" is made in two powers, magnifying $2\frac{1}{2}$ and 3 diameters respectively. Its definition is excellent, and the field of view is illuminated equally and brilliantly from edge to edge.



The Goerz Prism Binocular,
"Fago."

Magnifying $2\frac{1}{2}$ or 3 diameters.
Three-quarters Full Size.

In appearance the glass is neatly and richly finished. It is very small in size, and excellent both in optical and mechanical construction. It can, therefore, be thoroughly recommended to those desiring a perfect glass for theatre use.

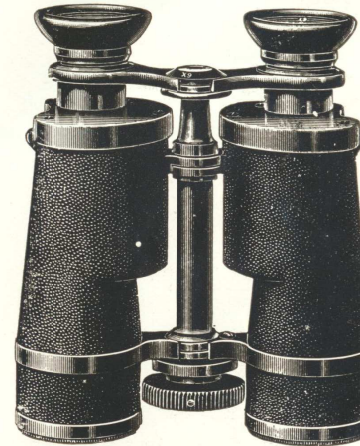
Prices, with Russia Leather Case and Silk Cord.

Goerz Prism Binocular, "Fago" No. 100, $\times 2\frac{1}{2}$, Code word: FAGOTWO	£5 0 0
Goerz Prism Binocular, "Fago" No. 150, $\times 3$, Code word: FAGOTREE	5 10 0
"Fago" De Luxe, $\times 3$, richly finished in Mother of Pearl and gilt, Code word: FAGOLUX	7 0 0
Telescopic Holder	0 10 0



TWO SPECIAL GLASSES.

Goerz "Pernox" Binocular.



HAS object-glasses of large diameter, and the greater illumination noticeable at dusk or when the light is failing specially recommends the glass for Marine use and Deer-stalking.

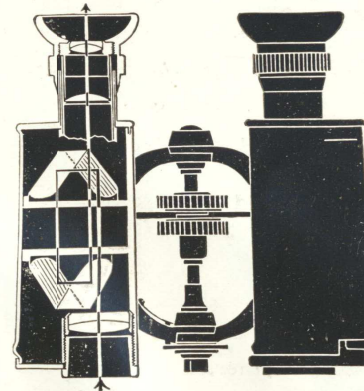
Only Prism glass recommended for use in the Imperial German Navy.

Price, in Leather Sling Case.

Magnifying 6 diameters Eyecup focussing	£8 15 0
" " " Rack focussing	£8 15 0
Magnifying 8 diameters " "	11 5 0
Magnifying 10 diameters " "	14 10 0

The $\times 6$ glass is also made in Monocular form, price £4 : 0 : 0.

Goerz "Army" Binocular.



A SPECIAL Pattern of Binocular in which every surface of the lenses or prisms is accessible for cleaning—of no little importance in hot moist climates where the prisms are apt to dull rather quickly. The "Army" Binocular can be confidently recommended for tropical use.

Price, in Leather Sling Case.

Magnifying 6 diameters... ..	£7 0 0
" 9 "	7 15 0
" 12 "	10 0 0