



MB

OPEROS THEATRE GLASSES

By giving you a perfect view of the whole stage, the Operos will ensure that you see every detail of the show and greatly add to your enjoyment. Operos theatre glasses are something quite new in design; they are light, streamlined and compact.

The most outstanding improve-

ment over ordinary fixed glasses is the hinged body, which enables the eye-cups to be adjusted to suit the eye separation of the user.

The magnification has been carefully calculated for comfortable viewing from any theatre seat. At the same time a wide field of view is obtained.

The binoculars described in this list are obtainable from:

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Binoculars by

**ROSS
LONDON**





HOW TO CHOOSE BINOCULARS

EVERY Ross binocular has its particular application and a general description of each type is given in the following pages. When buying binoculars for the first time many people tend to choose the more powerful models, which they imagine to be better value.

Why this idea is wrong will be clear from the following particulars on how binoculars work.

A binocular described as $7\times$ will show an object seven times larger in height and width than would be seen by the naked eye at the same distance. Conversely, an object seen clearly with the eye at, say, 100 yards, can be seen just as clearly and precisely the same size at 700 yards with the aid of a $7\times$ binocular. A $10\times$ glass will, of course, produce similar results at 1,000 yards or give you an image ten times as large as that seen by the naked eye. But remember that as the magnification is increased so the image tends to become unsteady, as hand tremors are also magnified at higher magnifications.

TECHNICAL TERMS EXPLAINED

The magnification is plainly engraved on all Ross binoculars and it is followed by a figure to indicate the size of the object glass (the large end of the instrument) in millimetres. For example, a glass marked 7×50 means that it will give a magnification of seven times and has an object glass 50 mm. in diameter. The larger the diameter of the object glass, the more light it will pass and the brighter will be the image you see.

All Ross binoculars are carefully designed to provide the largest possible object glasses commensurate with correct balance and the high light transmission thus obtained is further increased by "coating" the interior lens surfaces.

It is advisable to choose a binocular of a power sufficient for your needs, but not too powerful, because binoculars of moderate magnification give more light and a larger field of view.

Ross binoculars are world famous for their extra-wide field, improved light transmission and brilliant definition.



STEPRUVA
9 x 35

The regular racegoer and sports-meeting enthusiast requires binoculars which are good on dull days as well as fine. The slight extra power and larger object glasses of the Stepruva ensure quick recognition of colour and competitors at considerable distances without any suggestion of strain.

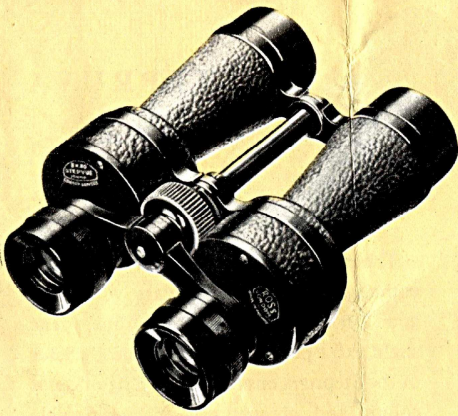
STEPTRON
8 x 30



A general-purpose glass equipped with large, comfortable eyepieces and centre wheel focusing. Of convenient and popular shape, the Steptron is small enough to slip into the pocket. This model is recommended for all holiday activities, as the degree of magnification is adequate for motor racing, yachting and other sports.



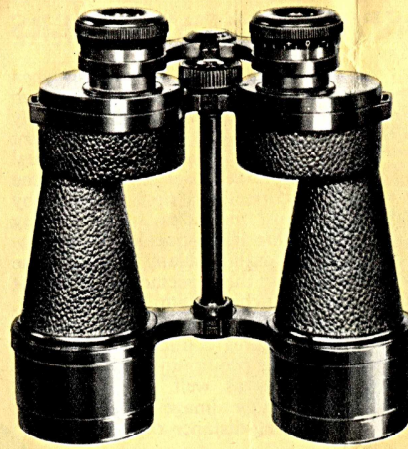
SPECIFICATION	STEPRUVA	STEPTRON
Magnification	9 x	8 x
Object glass	35 mm.	30 mm.
Field of view at 1,000 yards ..	128 yards	150 yards
Exit pupil diameter	3.9 mm.	3.75 mm.
Approximate weight	21 ozs.	20 ozs.



STEPVUE 8 × 30

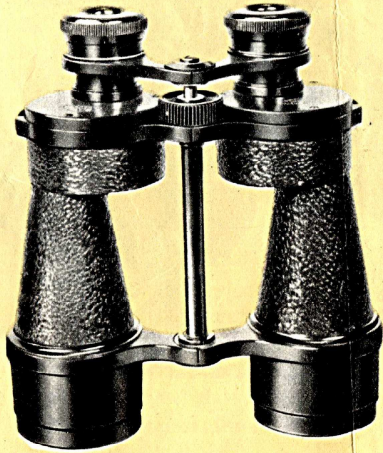
An exceptionally light-weight binocular for all general purposes, but specially suitable for mountaineers or for those on walking tours. The Stepvue is constructed of strong but lightweight materials giving a compact design without sacrificing any of its optical qualities.

The weight is only 15 ozs.; thus it can be carried all day without fatigue. An ideal binocular for the tourist.



STEPSUN 12 × 50

While binoculars of moderate magnification giving a wide field of vision are generally to be preferred, there are special applications which demand more power at the expense of these other qualities. The Stepsun is intended for long-distance work such as big-game hunting or for service needs. Binoculars of this power should be used from a steady position.

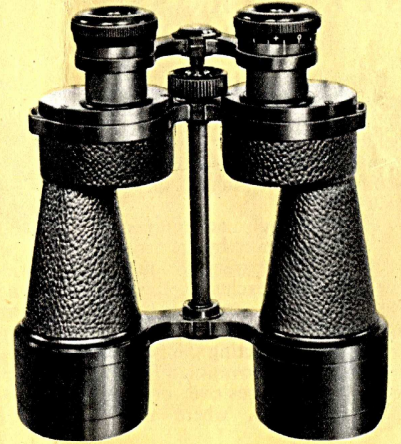


STEPLUX 7 × 50

These binoculars are essential for the yachtsman, for use at night or under poor lighting conditions. They are similar in design to those supplied by Ross for the Armed Services. They are famous for their tremendous light-gathering power, exceptionally flat field and clarity of definition. As with all Ross binoculars, the interior surfaces of the lenses and prisms are coated to give brilliance.

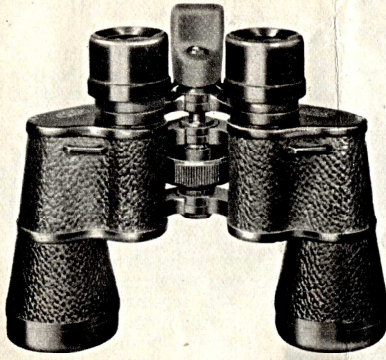
STEPMUR 10 × 50

As a suggestion for the naturalist, bird watchers and others interested in observing wild life, this Stepmur binocular combines high power with good light transmission. This is a beautifully balanced glass which can be used for long periods without fatigue. It has a wide field of view and it is easy to focus quickly on objects at widely varying distances.



SPECIFICATION	STEPVUE	STEPLUX	SPECIFICATION	STEPSUN	STEPMUR
Magnification	8 ×	7 ×	Magnification	12 ×	10 ×
Object glass	30 mm.	50 mm.	Object glass	50 mm.	50 mm.
Field of view at 1,000 yards	122 yards	122 yards	Field of view at 1,000 yards	96 yards	115 yards
Exit pupil diameter	3.75 mm.	7.1 mm.	Exit pupil diameter	4.2 mm.	5 mm.
Approximate weight	15 ozs.	36 ozs.	Approximate weight	36 ozs.	36 ozs.

MODELS FOR SPECTACLE WEARERS



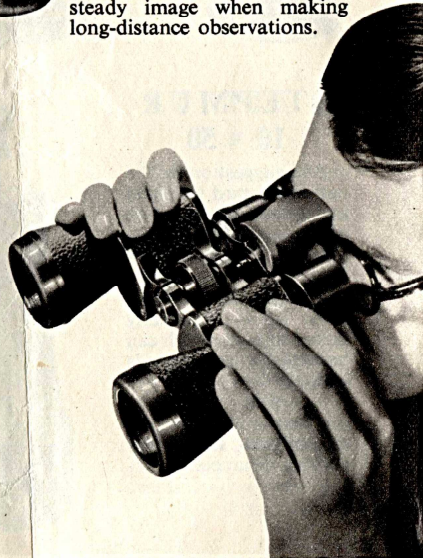
field of view is reduced, when wearing spectacles, to a fraction of that which is normally obtainable. More important still, it enables the individual spectacle-user to maintain the corrected vision provided by his spectacles while looking through binoculars. Spectaross binoculars are held close to the spectacles, but not touching them. The brow pad, which is available in four sizes, ensures comfortable and correct positioning of the binoculars as well as providing a steady image when making long-distance observations.



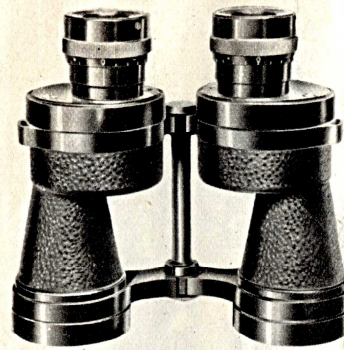
SPECTAROSS 8 x 40

These are the only binoculars specially made to give the spectacle-wearer maximum field of view and greater comfort without the inconvenience of removing his spectacles.

These unique advantages have been achieved by the provision of an extremely long eye-point, an exclusive Ross feature, which enables the spectacles to be worn without in any way restricting the field of view. This innovation offers decided advantages over ordinary binoculars, where the



HERMETICALLY SEALED BINOCULARS

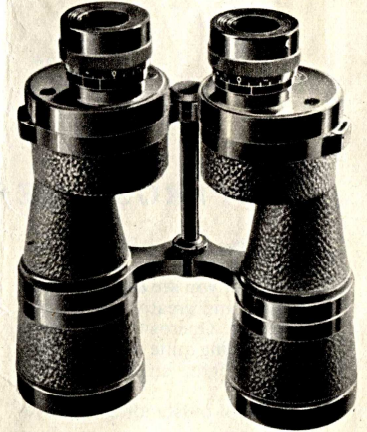


Having in mind the hard wear which they will inevitably get in service, the general construction of these models is such that they will withstand considerable mechanical shock without damage to the optical system. The rubber bonding surrounding the exterior glasses serves as an efficient shock-absorber as well as an effective sealing for the optical components.

Two models are available, with magnifications of 7 x and 10 x. The technical data for each is given below.

TROPICAL MODELS

A binocular for use wherever climatic extremes demand glasses which are resistant to heat, damp, vapour or termites. The body is protected not only against corrosion, but the binoculars are specially sealed and bonded so that even if the instrument should be completely immersed in water, the optical components will not be damaged. For this reason these binoculars are most valuable for marine use, for fishing and whaling fleets, and for use wherever there is a danger to normal binoculars from spray.



SPECIFICATION	SPECTAROSS	SPECIFICATION	TROPICAL 7	TROPICAL 10
Magnification	8 x	Magnification	7 x	10 x
Object Glass	40 mm.	Object glass	40 mm.	50 mm.
Field of view at 1,000 yards	109 yards	Field of view at 1,000 yards	164 yards	115 yards
Exit pupil diameter	5 mm.	Exit pupil diameter	5.7 mm.	5 mm.
Approximate weight	15 ozs.	Approximate weight	32 ozs.	40 ozs.