

For the outdoor enthusiast, the sportsman and the traveler, a fine pair of binoculars offers dramatic and unlimited thrills to be long cherished and remembered. The sports arena takes on new magnificence. All the wonders of nature, the breath-taking beauty of land and sea, will be enhanced countless times over when you take to the field with a precision-built KALIMAR scope.

For most of us, the binocular or field glass is a once-in-a-lifetime investment. As vital as is the gun to the hunter or the rod to the angler, the scope selected should bear your careful study and scrutiny before purchase.

KALIMAR has prepared this informative booklet for you in order that you may properly choose the right glass for your own requirements.

KNOWING YOUR SCOPE IS HALF THE FUN

Like any other precision instrument, the binocular and field glass have special names and terms for their component parts and uses. We will explain simply most of these terms.

POWER DEFINITION IN PLAIN LANGUAGE

When you see the numbers 7X, 8X, etc., this means how many times a viewed object is magnified . . . also how much closer this object is brought to the viewer by magnification. For example, through a 7-power glass, the object will appear seven times its normal size as viewed by the naked eye. Also, if you are looking at an object 1600 feet away through an 8-power binocular, it is the same as viewing this object from 200 feet away without the aid of your binoculars.

The second number used in identifying a binocular model will be 30, 35, 50, etc. This number refers to the diameter of the front objective lens, in millimeters. This lens governs light-gathering capacity of the binoculars, and has a direct relationship to image brightness.

FIELD OF VIEW

Often the number used for the objective lens diameter is interpreted as determining the field of view. This is not the case . . . the field of view is determined by the number and arrangement

of lenses in the eyepiece group. Field of view can be defined as description of the width of scene observed through a binocular at a given distance. The standard given distance is usually 1,000 yards between the person using binoculars and the object he is viewing.

CHOOSE YOUR SCOPE ACCORDING TO DESIRED USE

THE FIELD GLASS . . . is really two telescopes which are joined into one unit, for direct vision through the optical system. This is the type of scope that most people use for nature study, the theatre and the majority of sporting events.

It provides good magnification, is easy to focus and carry because of its light weight. Although the field glass has smaller field of view, its low cost and good magnification of small objects makes it highly popular.

THE PRISM BINOCULAR . . . utilizes two right angle reflecting surfaces (prisms) which redirect the image left and right. Two other similar reflectors are provided for up and down reorientation of the image. The prism system permits objective lenses to be set wider apart than the eyes. This helps give a wider field of view than is provided by the field glass and augments the stereoscopic effect of human vision. The binocular is popular for all outdoor sports, primarily those involving large groups, and for viewing distant objects or scenes over water. A binocular is equal in power to a comparable field glass or telescope without the latter's bulkiness. Its greater convenience justifies the increase in cost and weight.



SUGGESTED USES	Forest Areas	Bird Study	Sporting Events	General Use	Nighttime Use	Distant Viewing	Indoors	Over-water Use
20 X 50	C	C	B	C	C	A	D	B
16 X 50	C	C	B	C	C	A	D	B
12 X 50	C	C	B	C	C	A	D	B
10 X 50	C	C	B	C	C	A	D	C
7 X 50	B	B	B	B	A	B	D	A
8 X 40 W.A.	A	A	A	A	C	B	C	C
7 X 35 W.A.	A	A	A	A	C	B	C	C
7 X 35	A	A	A	A	C	B	B	C
8 X 30	B	B	A	B	D	B	A	D
6 X 30	B	B	A	B	D	C	A	B
7 X 18	D	B	B	B	D	C	A	D
6 X 15	D	B	B	B	D	C	A	D
3 X, 10	D	C	C	C	D	D	A	D

(A = Very Good) (B = Good) (C = Fair) (D = Not Recommended)

CENTER FOCUS

This means the focusing mechanism is controlled by a wheel in the center of the binocular. Focusing is first done with the left eye, using the center wheel. Then the right eye is brought into balance with the graduated eyepiece. To adjust for different distances, move the center focusing wheel. This type of focusing is especially desirable for naturalists, bird watchers and for others who desire quick, accurate focusing on objects within 300 feet.

It is helpful to know that if a binocular is properly focused at a distance of approximately 300 feet, re-focusing for greater distances will not normally be necessary.

INDIVIDUAL FOCUS

Rotate each graduated eyepiece separately until a sharp image is obtained. A binocular with this type of focusing mechanism has fewer moving parts and is more moisture-proof and dust-proof than others. However, the center focus type has the advantage of quicker focusing where rapid change of the viewing field is desired.

There are many questions you might ask regarding the quality of manufacture of your selected binocular or field glass. All the following KALIMAR quality features are desirable.

COATING

The coating of lenses with magnesium fluoride is vitally important. Uncoated binocular optics lose up to 50% of light due to internal reflections, which often cause hazy images. All lenses in KALIMAR scopes are coated. This is a highly technical process by which a microscopically thin transparent coating is applied to all glass surfaces exposed to air. Quality lenses and coating provide bright, detailed images.

BRILLIANCE OF IMAGE

Magnification and light-gathering capacity are responsible for the brilliance of image. Hold your binoculars at arm's length. You will see a tiny disc of light in each eyepiece; this is called the

Exit Pupil. The size of this pupil is determined by dividing the diameter of the lens by the power. A 7 x 35 binocular will have a 5mm Exit Pupil.

Most popular binoculars have 5mm Exit Pupils. These provide more than enough light to produce bright images under normal conditions (except at night).

COLLIMATION OR ALIGNMENT

Perfect collimation must be provided if you are to see a proper image without strain. Improper horizontal alignment will cause your eyes to compensate to see a single image. This often causes severe headache after prolonged use of binoculars that are imperfectly collimated.

If vertical alignment is out of balance, your eyes cannot compensate and you will get double images.

Proper alignment can be built into your binoculars at the factory level only . . . so be sure before you buy.

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KALIMAR GUARANTEE

KALIMAR Binoculars are made to the highest standards of workmanship by experienced craftsmen. A rigid system of quality control and inspection assures you that every pair of KALIMAR binoculars is in perfect condition before leaving the factory . . . and KALIMAR binoculars are GUARANTEED FOR LIFE against defects in materials and workmanship. If KALIMAR binoculars become damaged or inoperative due to dropping, hard blows, etc., during use, this lifetime guarantee does not apply. However, any repairs that might be needed due to such damage can be made at a nominal charge. KALIMAR binoculars will give service for a lifetime.



10 x 50 BINOCULAR

For long range and wide field viewing! Offers great magnification with extremely sharp image at maximum distance. Individual Focus or Center Focus models. Complete with genuine leather carrying case and shoulder strap.

47.95

Magnification 10X
 Diameter of Front Objective 50mm
 Prisms & Lenses Hard coated,
 achromatic optics
 Field of View 314 feet at
 1,000 yards

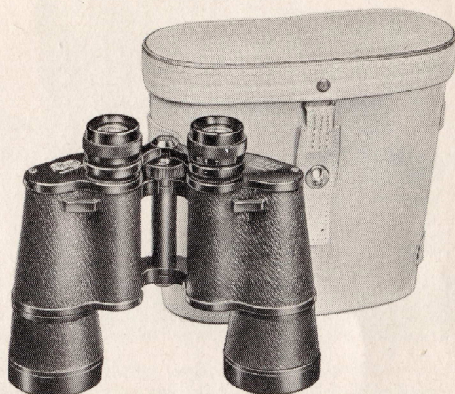
Diameter of Exit Pupil 5mm
 Height 7 inches
 Weight 35 oz.



12 x 50 BINOCULAR

Expertly balanced binocular for long range viewing outdoors. Wide field of view and image clarity. Center Focus. Complete with genuine leather carrying case and shoulder strap.

Magnification 12X
 Diameter of Front Objective 50mm
 Prisms & Lenses Hard coated,
 achromatic optics



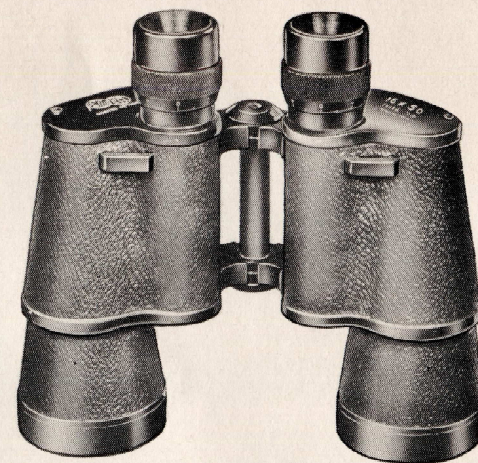
Field of View 288 feet at
 1,000 yards
 Diameter of Exit Pupil 4.1mm
 Height 7 inches
 Weight 28 oz.

47.95



16 x 50 BINOCULAR

Versatile binocular designed for extremely long range observation. Excellent for mountain climbers and big game hunters. Center Focus. Complete with genuine leather carrying case and shoulder strap.



\$49.

Magnification 16X
 Diameter of Front Objective 50mm
 Prisms & Lenses Hard coated,
 achromatic optics
 Field of View 209 feet at
 1,000 yards

Diameter of Exit Pupil 3.1mm
 Height 7½ inches
 Weight 36½ oz.

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20 x 50 BINOCULAR

The perfect binocular for use where maximum magnification of a distant scene or object is desired. Center Focus. Complete with genuine leather carrying case and shoulder strap.



Magnification 20X
 Diameter of Front Objective 50mm
 Prisms & Lenses Hard coated,
 achromatic optics
 Field of View 173 feet at
 1,000 yards

Diameter of Exit Pupil 2.5mm
 Height 7½ inches
 Weight 33½ oz.

\$65.