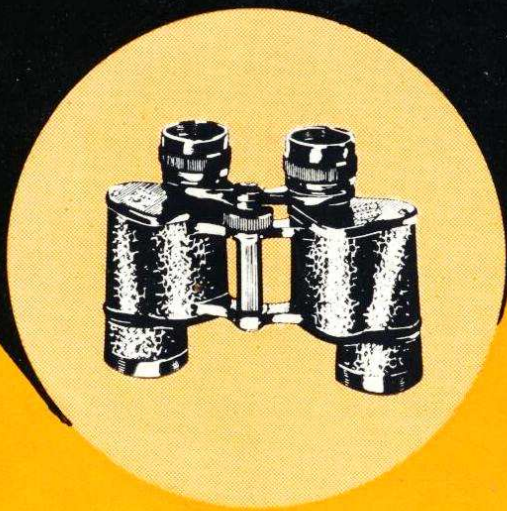




Binoculars



NIPPON KOGAKU K.K.

MIKRON·NOVAR

MB



Individual Focusing MIKRON 8 × 50, NOVAR 7 × 50

Marine and night binoculars of the highest possible illumination for a hand-held glass. For specific use where light conditions are poor—night, dawn, dusk, haze. Individual focusing oculars, dust and moisture proof, rigid construction, in fitted hard cowhide case with straps.

	8 × 50	7 × 50
Magnification	8 times	7 times
Diameter of objective	50 mm	50 mm
Angular field of view	7°	7°16'
Linear field at distance of 1,000 yards...	367 ft.	381 ft.
Exit pupil.....	6.25 mm	7.1 mm
Relative brightness.....	39.1	50.4
Weight	42 ozs.	43 ozs.
Height	7 in.	7¼ in.
Width.....	7⅞ in.	7⅞ in.
Codeword	Hagot	Nagot

M I K R O N

MB



Central Focusing 8 × 35, 7 × 35
Individual Focusing 6 × 30

Handsome and better balanced binoculars made to fit the hand.

The best all-around glasses for the average binocular users—tourists, mountaineers, rangers, etc. Three models are available.

Hard cowhide case with straps.

	6 × 30	8 × 35	7 × 35
Magnification	6 times	8 times	7 times
Diameter of objective	30 mm	35 mm	35 mm
Angular field of view	8°20'	7°	7°8'
Linear field at distance of 1,000 yards.....	439 ft.	367 ft.	375 ft.
Exit pupil	5 mm	4.4 mm	5 mm
Relative brightness.....	25	19.4	25
Weight	22 ozs.	23 ozs.	26 ozs.
Height	4½ in.	5¼ in.	5½ in.
Width	6¾ in.	7⅛ in.	7⅛ in.
Codeword	Rasot	Hosgt	Nosgt



MB

Central Focusing 9×35, 8×30 Wide Field Models

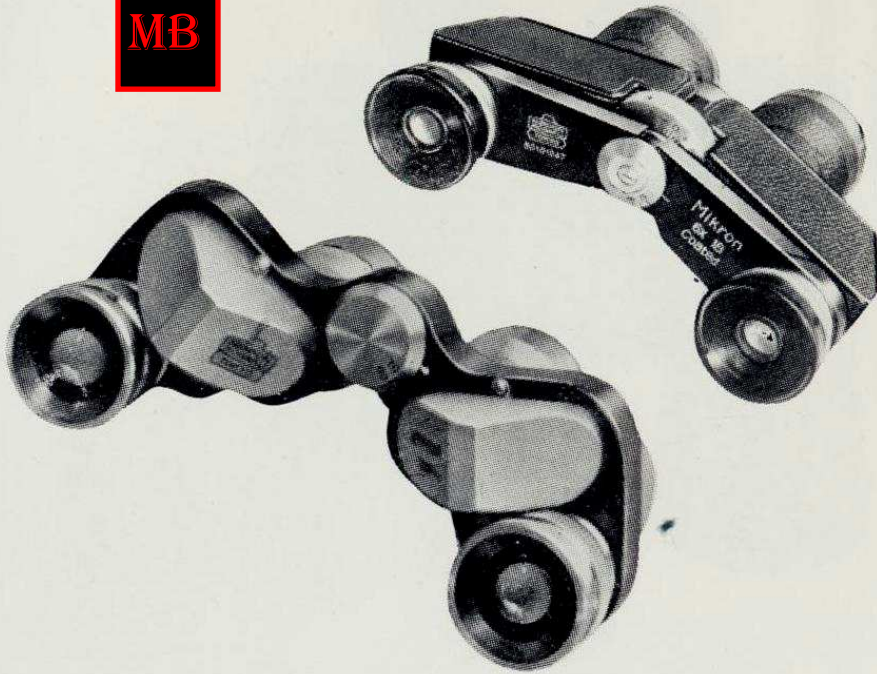
Excellent glasses of perfect size and power for hunting use.

Central focusing and the widest field of view make these glasses most recommendable for easy focusing on running deer and big game, keeping them readily in the field of view.

Hard cowhide case with straps.

	8×30	9×35
Magnification	8 times	9 times
Diameter of objective	30 mm	35 mm
Angular field of view	8°30'	7°20'
Linear field at distance of 1,000 yards...	446 ft.	385 ft.
Exit pupil	3.75 mm	3.9 mm
Relative brightness.....	14.1	15.2
Weight	22 ozs.	24 ozs.
Height	4½ in.	5¼ in.
Width.....	6⅝ in.	6⅞ in.
Codeword	Hosot	Kosgt

MB



Centrel Focusing 6 × 18

Individual Focusing 6 × 15

Lightest miniature models in the lines of prismatic binoculars. 6×15 is so tiny that it rests comfortably on a lady's palm, retaining all the superior features identified with medium size binoculars.

Roof-prism type 6×18 binocular is of flat, compact and elegant design, with excellent optical performance and beauty.

The ideal glasses for sports, excursions and above all for theatre going. Contained in luxurious pouch.

	6 × 15	6 × 18
Magnification	6 times	6 times
Diameter of objective	15 mm	18 mm
Angular field of view	8°18'	7°40'
Linear field at distance of 1,000 yards...	438 ft.	366 ft.
Exit pupil	2.5 mm	3 mm
Relative brightness.....	6.2	9
Weight	6.0 ozs.	6.2 ozs.
Height	1½ in.	2½ in.
Width	4¾ in.	4 in.
Codeword	Raagt	Roagt

Some Optical Facts about Binoculars

Magnification and Diameter of Objective

Prismatic binoculars are rated according to their magnifying power and the diameter of their objective aperture. Thus 6×30 means 6 time magnification of image through objective aperture of 30 mm in diameter. In other words the size of the image equals that of the same object seen 6 times nearer with the naked eyes.

Exit Pupil

When you hold a binocular up to the light and place a paper close to the eyepieces, you will see a pair of small bright circles on the paper. The smallest circles represent "Exit Pupils" to which places the observer's eye pupils are to be brought. The diameter in millimeters of these is exactly the same as the quotient derived from dividing the power into the objective dia.

By this same formula, the higher the magnification of the glass the less light is transmitted. Note the binocular 8×35 . 8 into 35 equals 4.4 mm exit pupil.

Relative Brightness

Relative brightness is the measure of the amount of light transmitted through the binocular. It is determined by squaring the diameter of exit pupil.

Field of View

Field of view is the extent of field seen through the glass, and is not only expressed in angular measurement but also in linear measurement of its diameter at a distance of 1,000 yards.

The field of view depends upon the construction of the eyepiece of binocular.

Coating

Coating is applied to all optical surfaces. This coating is the magnesium fluoride type and serves to increase the light transmission through the optical elements.

Focusing

In the central focusing type of binocular both eyepieces are focused simultaneously, the adjustment of eye sight discrepancy between the two eyes being made by the right side eyepiece. So this type of glass is more convenient in case the object is in quick motion.

TROPICAL

MB



Individual Focusing 7×50, 6×30

Especially tight-sealed, these binoculars are perfectly resistant to heat, damp or vapor, and are valued by users who claim waterproof feature. Superb performance befits navigators, fishing and whaling fleets.

Hard cowhide case with straps.

	7×50	6×30
Magnification	7 times	6 times
Diameter of objective	50 mm	30 mm
Angular field of view	7°16'	8°30'
Linear field at distance of 1,000 yards...	381 ft.	445 ft.
Exit pupil.....	7.1 mm	5 mm
Relative brightness.....	50.4	25
Weight	50 ozs.	23 ozs.
Height	7¼ in.	4¾ in.
Width.....	8½ in.	6⅞ in.
Codeword	Nowgt	Rowst

MIKRON and NOVAR

There are many different makes of binoculars available in the market, all of which look pretty much alike in general design, but any one can tell their difference in optical quality as chalk from cheese.

MIKRON and NOVAR binoculars made by Nippon Kogaku K.K., Tokyo, the makers of famous **Nikon** camera and **Nikkor** lenses, reflect finest workmanship, sound optical principles, painstaking precision in every detail of construction.

All metal parts are machined to exacting tolerances; the optics are as perfect as human skill can make them. Nippon Kogaku's binoculars are assembled by highly skilled craftsmen—to whom time is no object.

Only through this combination of optical experience, fine materials and attention to minute detail can a quality binocular be manufactured. On that basis the Nippon Kogaku's line of binoculars are unsurpassed, and their handsome appearance makes them outstanding. You will be proud to own a Mikron or Novar—the binocular that will give you a lifetime of pleasure.



Manufacturers : **NIPPON KOGAKU K.K., Tokyo**