

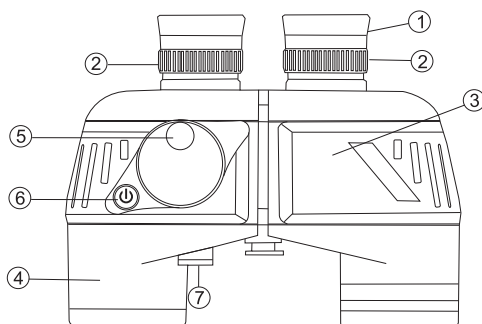


Fig. 1

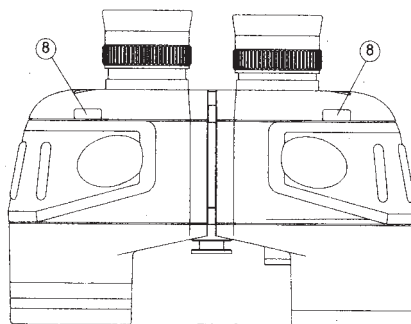


Fig. 2

INSTRUCTIONS FOR WATERPROOF BINOCULAR WITH INTERNAL RANGEFINDER SCALE & DIRECTIONAL COMPASS

MAIN FEATURES:

- Waterproof, dust-proof, all-weather binoculars suitable for outdoor use even under severe conditions such as watersport and mountaineering.
- Nitrogen gas inside the binocular eliminates fogging and mold on internal lens surfaces even under extremely severe condition, such as rainstorms and high humidity.
- Internal Rangefinder Scale and Directional Compass with illumination switch indicates the distance or size of the object being viewed and its orientation.
- Hi-Index Bak-4 prism features a bright, sharp image with vivid contrast to offer you every little detail of an object.
- Rubber-coated body provides great shock resistance and a comfortable touch, firm grasp.

Name List (See Fig. 1 & 2)

- Rubber Eyecups
- Eye-Piece Diopter
- Main Body
- Objective Lens
- Compass Case
- Compass Light Switch
- Battery Compartment
- Strap Holder

A. HOW TO ADJUST DISTANCE BETWEEN YOUR EYES

The distance between the eyes, called "interpupillary distance", varies from person to person. To achieve perfect alignment of lens to eyes. Follow these simple steps.

- Hold your binocular in the normal viewing position.
- Grasp each barrel firmly. Move the barrels closer together or further apart until you see a single circle field of view. Always re-set your binocular to this position.

B. FOCUSING

- Set right and left eyepiece to zero and sight on a distant object.
- Cover right objective (front) lens with your hand, then rotate central focusing wheel until the image in the left eyepiece is sharp. Keep both eyes open while making this adjustment.
- Cover left objective (front) lens with your hand then rotate the right eye-piece until the image is sharp again.
- Image should now be focused to your eye-strength. Note diopter setting for future reference.

C. ROLL DOWN EYECUPS

If you wear sun/eyeglasses, roll down the eyecups (1). This will bring your eyes closer to the lens thus providing improved field of view.

D. HOW TO READ THE RANGEFINDER SCALE

To accurately use the rangefinder scale, you will need to know either the size or distance of the object. When the size of the object is known, the rangefinder scale tells you the distance to it. When the distance to the object is known, the rangefinder scale tells you its size.

- To Measure the Distance (object size must be known)

$$\text{Distance} = \frac{100 \times \text{Object Size}}{\text{Rangefinder Scale Reading}}$$

Example: When the object size is 20M height and the rangefinder scale reading is 1.6 unit. (See Fig. 3)

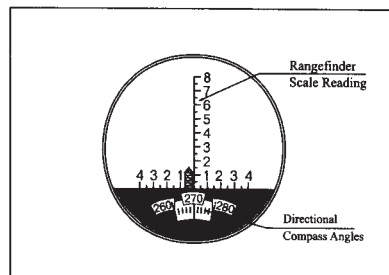


Fig. 3 Reticle Scale

$$\frac{20 \times 100}{1.6} = 1250 \text{ M (Distance)}$$

- To Measure the Size (Distance to object must be known)

$$\text{Object Size} = \frac{\text{Distance} \times \text{Rangefinder Scale Reading}}{100}$$

Example: When the object distance is 1250M and the rangefinder scale reading is 1.6 unit.

$$\frac{1250 \times 1.6}{100} = 20 \text{ M (Object Size)}$$

E. HOW TO USE THE CALCULATOR PLATE

The above calculation can be easily operated with the calculator plate inside the right obj. lens cover.

There are three concentric circles of numbers. The inner circle of number represents the Rangefinder Scale Reading. The outer circle of number represents the Distance. The circle of number in between represents the Object Size.

Turn the rotatable zone of the plate and stop when the arrow points to the number of Rangefinder scale reading. If you already know the object size, find the number of object size on the plate, and the corresponding number of the outer circle is the Distance. If you already know the Distance, find the number of distance on the plate, and the corresponding number of the circle in between is the Object size.

F. HOW TO USE THE DIRECTIONAL COMPASS

1. TO READ THE DIRECTIONAL COMPASS

When you look into the eyepiece, you will see a directional compass window with figures and graduations below the field of view.

The directional compass shows orientations in terms of angles, where the North is represented as 360°, East as 90°, South as 180° and West as 270°. Each graduation represents 1°. After aligning the object with the rangefinder scale in the center of field, read the graduation where the reference line on the center of the directional compass window is located. The orientation of the object can be identified from the reading.

2. TO LOCATE YOUR POSITION

- By using this binocular, together with a map and angle meter, you will then be able to locate precisely your position.
- Taking boat sailing as an example, in Fig. 4, the arrow shows the direction your boat is heading for.

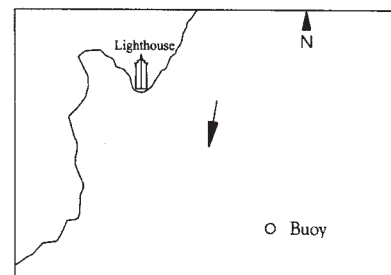


Fig. 4

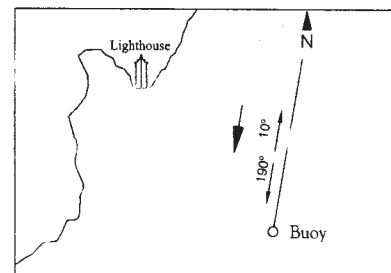


Fig. 5

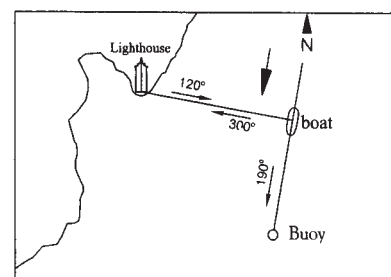


Fig. 6

Note: The North indicated by the directional compass is "Magnetic North", which is different from "True North". True North is the same no matter where you are located around the world. Magnetic North varies depending on the location of the observer.

- In Fig. 5, by reading the compass in the binocular, you read 190° from the boat to the buoy. (The counter-directional angle, 190°-180°=10°, from the buoy to the boat)
- To locate your position precisely, you need to have a second reference. In Fig. 6, by using the lighthouse as the second reference, the direction from the lighthouse to the boat is 120° (300°-180°=120°). Then, we can locate the boat position on the map that the boat is at the intersection of the two directional lines, from the lighthouse (120°) and the buoy (10°).
- You can read your compass in the dark by pressing the compass light switch (6) and illuminating it in red light.
- If the light becomes faint, change the light battery (LR36 X 2, Alkaline batteries). Using a coin, unscrew the cover of the battery compartment (7) and change the battery, making sure the new one is inserted correctly.

G. INSTRUCTION FOR CARE

- Always store your binocular in its case when not in use.
- When wiping the lenses, use a soft lintless cloth.
- To remove any remaining dirt or smudges, add one or two drops of isopropyl alcohol to the cloth.
- Store your binocular in a moisture-free area.

VERY IMPORTANT

Never attempt to clean your binocular internally or try to take it apart.

CAUTION

- Viewing the sun can cause permanent eye damage. Do not view the sun with this product or even with the naked eye.
- Never leave your binoculars in a place exposed to direct sunlight. This could result in a potential fire hazard.
- Never dispose of batteries by putting them in a fire and do not attempt to heat, open, recharge or short a battery. Doing so may generate heat, start a fire, or cause an explosion.