

Barska AB10798

BARSKA Deep Sea Marine Binoculars 7x50 (Model AB10798)

User Instruction Manual

[Introduction](#)[Setup](#)[Operating](#)[Maintenance](#)[Troubleshooting](#)[Specifications](#)[Warranty & Support](#)

1. INTRODUCTION

The BARSKA Deep Sea Marine Binoculars 7x50 (Model AB10798) are designed for marine and outdoor enthusiasts. These binoculars feature a 7x magnification and 50mm objective lenses, providing clear and bright images. Key features include a waterproof and fogproof construction, the ability to float if dropped in water, an internal directional compass, and a rangefinding reticle for navigation and distance estimation.

Included Components:

- BARSKA Deep Sea Marine Binoculars (AB10798)
- Carrying Case
- Lens Covers
- Neck Strap
- Lens Cloth
- Two LR43 Coin Cell Batteries (may be pre-installed or included separately)



Image: Binoculars with carrying case, lens covers, neck strap, lens cloth, and two LR43 batteries.

Product Overview Video:

Video: An overview of the BARSKA Floating Marine Binoculars, highlighting their features such as the rangefinder and compass.

2. SETUP

2.1 Battery Installation for Compass Illumination

The internal compass features an illumination function for low-light conditions. This requires two LR43 coin cell batteries.

1. Locate the battery compartment, typically on the top or side of the binocular housing, often marked with a small rubber cap.
2. Carefully remove the rubber cap, which may have a 'remove' or 'CCW' (counter-clockwise) arrow.
3. Insert the two LR43 coin cell batteries with the correct polarity, usually positive (+) side up.
4. Replace the rubber cap securely to maintain waterproof sealing.

2.2 Attaching the Neck Strap

Attach the provided neck strap to the strap lugs on each side of the binoculars. Ensure the strap is securely fastened to prevent accidental drops.

2.3 Adjusting Eyecups

The eyecups can be adjusted for comfortable viewing, whether you wear eyeglasses or not.

- **For Eyeglass Wearers:** Fold down or retract the eyecups to bring your eyes closer to the ocular lenses, allowing for a full field of view.
- **For Non-Eyeglass Wearers:** Keep the eyecups extended to maintain the proper eye relief and block out peripheral light.

2.4 Adjusting Interpupillary Distance (IPD)

The interpupillary distance is the distance between the centers of your pupils. Adjusting this ensures a single, clear image.

1. Hold the binoculars with both hands.
2. Look through the binoculars at a distant object.
3. Adjust the hinge between the two barrels by moving them closer together or further apart until you see a single, circular field of view without any dark edges.

2.5 Focusing

These binoculars feature individual eyepiece focusing, which is ideal for marine use where distances are often greater and constant refocusing is not required.

1. Close your right eye and look through the left eyepiece at a distant object. Rotate the left eyepiece's diopter adjustment ring until the image is sharp and clear.
2. Close your left eye and look through the right eyepiece. Rotate the right eyepiece's diopter adjustment ring until the image is sharp and clear.
3. Once both eyepieces are focused for your eyes, the binoculars should remain in focus for most distant objects without further adjustment.

3. OPERATING INSTRUCTIONS

3.1 General Viewing

After completing the setup, simply raise the binoculars to your eyes and observe your target. The 7x magnification provides a stable image, suitable for observing moving objects from a boat.



Image: Binoculars being used for various outdoor activities including marine observation, hunting, and hiking.

3.2 Using the Internal Compass

The binoculars are equipped with an internal directional compass visible in the field of view. To illuminate the compass for night use:

- Press the LED button located near the compass housing. This will activate a red light, making the

compass readings visible in low light.

- The compass provides a general direction, useful for basic navigation.



Image: Close-up of the binoculars showing the push-activated LED button for compass illumination and the reticle for distance and direction.

3.3 Using the Rangefinder Reticle

The right eyepiece features an optical reticle with horizontal and vertical scales, each mark representing 5 mils. This allows for approximate distance estimation if the object's size is known, or object size estimation if the distance is known.

- **Understanding Mils:** One mil equals an object of 5 meters (16.4 feet) at 1000 meters (3280.8 feet) distance.
- **Distance Calculation:** If you know the height of an object (e.g., a lighthouse) and measure its height in mils using the reticle, you can estimate the distance.
- **Object Size Calculation:** If you know the distance to an object and measure its size in mils, you can estimate its actual size.
- Some models may include a cylindrical slide-rule around the front lens for easier calculations.



Image: View through the binoculars showing the reticle for measuring distance and direction, with an illuminated compass.

3.4 Waterproof and Floating Design

These binoculars are O-ring sealed and nitrogen-purged, making them 100% waterproof and fogproof. In the event they are dropped into water, their design allows them to float, preventing loss.

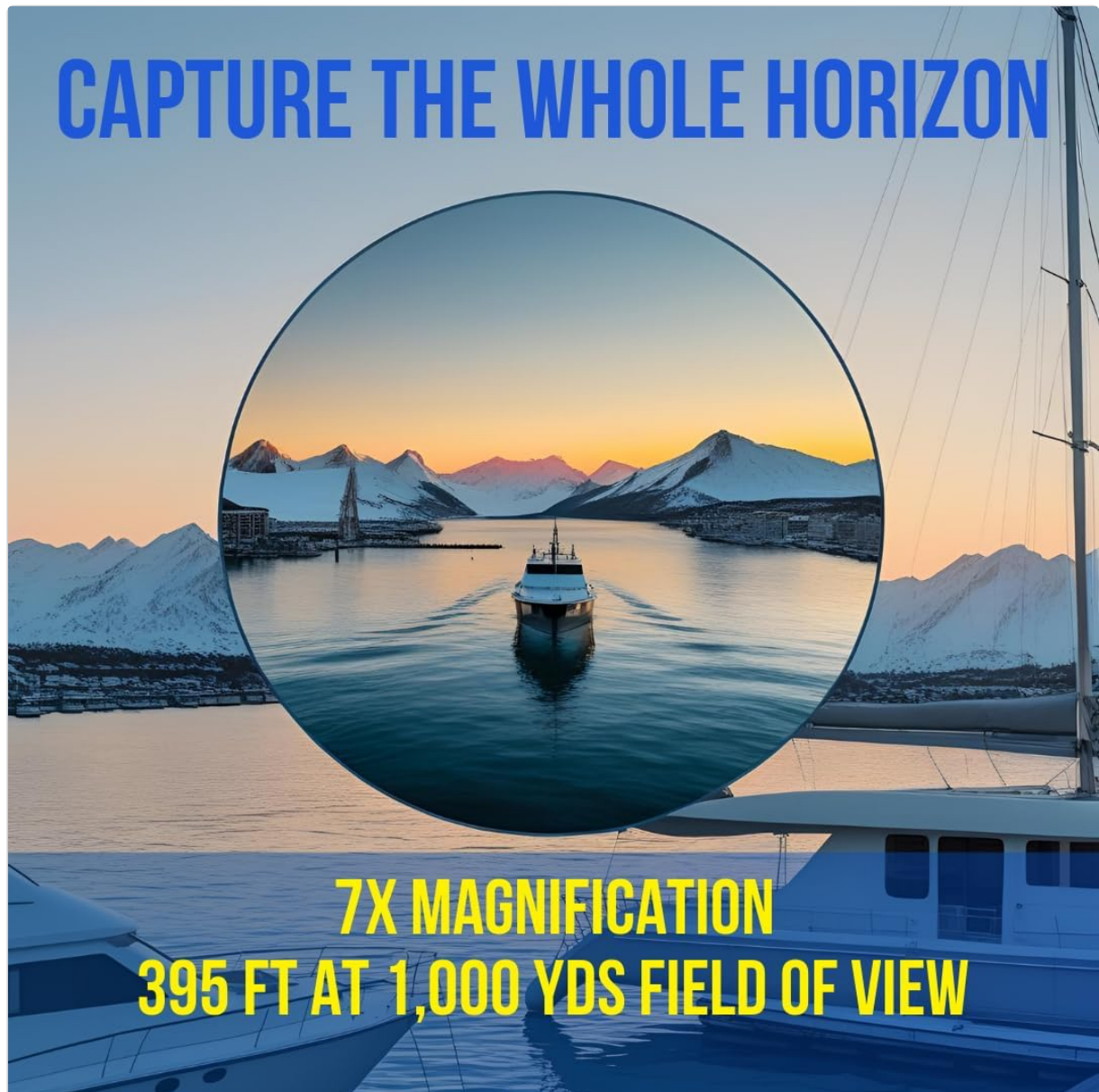


Image: The binoculars partially submerged and floating in water, demonstrating their waterproof and floating capabilities.

3.5 Tripod Mounting

The binoculars are equipped with a tripod mount adapter thread, allowing them to be mounted on a standard photographic tripod for extended, stable viewing sessions. A tripod adapter (sold separately) is required.

4. MAINTENANCE

4.1 Cleaning the Lenses

To clean the lenses, use the provided lens cloth or a soft, lint-free cloth. Gently wipe the lens surface to remove dust or smudges. For stubborn dirt, a small amount of lens cleaning fluid designed for optics can be applied to the cloth, not directly to the lens.

4.2 Cleaning the Body

The rubber armor body can be wiped clean with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the finish.

4.3 Storage

When not in use, store the binoculars in their carrying case in a cool, dry place. Ensure lens caps are in place to protect the lenses from dust and scratches.

4.4 Water Exposure

While waterproof, it is recommended to rinse the binoculars with fresh water after exposure to saltwater to prevent salt buildup and corrosion. Dry thoroughly before storing.

5. TROUBLESHOOTING

5.1 Fogging Inside Lenses

These binoculars are nitrogen-purged to prevent internal fogging. If fogging occurs, it may be due to extreme temperature changes or a compromised seal. Often, internal fogging will clear on its own as the binoculars adjust to the ambient temperature. If persistent, contact customer support.

5.2 Compass Not Illuminating

If the compass light does not turn on when the LED button is pressed, check the LR43 coin cell batteries. Ensure they are correctly installed with the proper polarity and have sufficient charge. Replace if necessary.

5.3 Compass Appears Stuck or Inaccurate

The internal compass is a mechanical component. If it appears stuck, gently tap the binoculars to dislodge it. Ensure you are holding the binoculars level for accurate readings. Magnetic interference from nearby electronic devices or large metal objects can also affect compass accuracy.

5.4 Difficulty Achieving Clear Focus

If you are having trouble achieving a clear image, re-perform the individual eyepiece focusing procedure (Section 2.5). Ensure the interpupillary distance is correctly set for your eyes (Section 2.4).

6. SPECIFICATIONS

Brand	Barska
Model Name	AB10798
Magnification	7x
Objective Lens Diameter	50 millimeters
Prism Type	Porro Prism

Coating	Fully Multi-Coated
Water Resistance Level	Waterproof
Special Features	Built-In Rangefinder, Floating, Fog Proof, Internal Compass
Field of View	122.6 degrees (395 ft at 1,000 yds)
Eye Relief	23 millimeters
Exit-Pupil Diameter	7.2 millimeters
Focus Type	Individual Eyepiece Focus
Diopter Adjustment Range	+/-3 diopters
Item Weight	16 ounces
Dimensions (L x W x H)	3.46" x 7.13" x 7.72"
Enclosure Material	Rubber

7. WARRANTY & SUPPORT

7.1 Warranty Information

For detailed warranty information, please refer to the manufacturer's official website or contact Barska customer service directly. The warranty typically covers manufacturing defects.

7.2 Customer Support

If you encounter any issues or have questions not covered in this manual, please visit the official [Barska Store on Amazon](#) or their official website for support resources and contact information.

7.3 Legal Disclaimer

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.