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USCAMEL UW004

USCAMEL 10X50 Marine Binoculars User Manual

Model: UW004

1. INTRODUCTION

Thank you for choosing the USCAMEL 10X50 Marine Binoculars. These binoculars are designed for marine environments, offering 10x magnification and a 50mm objective lens for clear, bright images. Equipped with an illuminated compass and an internal rangefinder reticle, they are ideal for sailing, boating, fishing, and other outdoor activities. This manual provides detailed instructions for proper setup, operation, and maintenance to ensure optimal performance and longevity of your device.



Image 1.1: The USCAMEL 10X50 Marine Binoculars, showcasing their robust design suitable for marine use.

2. PACKAGE CONTENTS

Upon unpacking your USCAMEL 10X50 Marine Binoculars, please verify that all the following items are included:

- USCAMEL 10X50 Marine Binoculars
- Eyepiece Cap
- Portable Soft Pack (Carrying Case)
- Lens Cleaning Cloth
- Button Battery (pre-installed and spare)
- Neck Strap
- Instruction Manual (this document)

PRODUCT ACCESSORIES



Image 2.1: All components included in the USCAMEL 10X50 Marine Binoculars package.

3. COMPONENT IDENTIFICATION

Familiarize yourself with the various parts of your binoculars for effective use:

MAIN PARTS OF BINOCULARS



Image 3.1: Detailed diagram identifying the main parts of the binoculars.

1. **Foldable Design Eyepiece:** Adjustable for comfortable viewing, especially for users with glasses.
2. **Strap Hold:** Attachment point for the neck strap.
3. **Left & Right Focusing Rings:** Individual diopter adjustment for each eyepiece.
4. **Compass Light:** Illuminates the built-in compass for low-light conditions.
5. **Light Source Switch:** Activates the compass light.
6. **Tripod Interface:** Allows mounting the binoculars on a tripod for stable viewing.
7. **Anti-slip Grip:** Textured surface for secure handling.
8. **Left Objective Focusing Ring:** Used for the internal rangefinder.

4. INITIAL SETUP

4.1 Attaching the Neck Strap

Thread the provided neck strap through the strap holds on each side of the binoculars. Ensure it is securely fastened to prevent accidental drops.

4.2 Adjusting Eyecups

The binoculars feature foldable eyecups. If you wear eyeglasses, fold down the eyecups to bring your eyes closer to the ocular lenses, maximizing the field of view. If you do not wear eyeglasses, keep the eyecups extended for proper eye relief.

4.3 Diopter Adjustment

These binoculars feature individual eyepiece focusing. To adjust for your vision:

1. Look through the binoculars at a distant object.
2. Adjust the left and right focusing rings (diopter rings) until the image appears sharp and clear for each eye independently.
3. Once set, the binoculars should remain in focus for most distances without further adjustment, as they are designed with a fixed-focus system for marine use.

5. OPERATING INSTRUCTIONS

5.1 Using the Rangefinder Reticle

The binoculars are equipped with an internal rangefinder reticle in the left eyepiece. This reticle allows you to estimate the distance to an object if its height or width is known, or vice versa. The reticle consists of horizontal and vertical scales (often in MILS or similar units).

To estimate distance:

1. Align the reticle with the object you wish to range.
2. Read the number of reticle units (e.g., MILS) that the object spans on the vertical or horizontal scale.
3. Use the formula: **Distance (meters) = (Object Height/Width (meters) / Reticle Reading (MILS)) x 1000** (Note: The specific constant may vary; refer to the detailed manual for precise calculations if available.)

SUPER WIDE FIELD OF VIEW

Right Objective Rangefinder & Compass Design
Measuring Distance & Direction Any Time



Image 5.1: Illustrates the view through the binoculars, showing the integrated rangefinder reticle and compass.

5.2 Using the Illuminated Compass

An illuminated compass is built into the binoculars for direction location. To activate the compass light, press the light source switch located on the side of the binoculars. The compass will provide a bearing in degrees, visible within the field of view, assisting with navigation.

5.3 Waterproof and Floating Design

These binoculars are IPX7 waterproof, meaning they can withstand immersion in water up to 1 meter for 30 minutes. They are also designed to float if dropped in water, making them ideal for marine environments. The dry nitrogen-purged and O-ring sealed construction prevents internal fogging and moisture damage.

IPX7 Waterproof Marine Binoculars



Image 5.2: The binoculars submerged in water, highlighting their IPX7 waterproof and floating capabilities.

6. CARE AND MAINTENANCE

Proper care will ensure the longevity and performance of your binoculars:

- **Cleaning Lenses:** Use the provided lens cleaning cloth or a soft, lint-free cloth. For stubborn spots, a small amount of lens cleaning fluid can be applied to the cloth, not directly to the lens. Avoid abrasive materials.
- **Cleaning Body:** Wipe the body with a soft, damp cloth. Do not use harsh chemicals or solvents.
- **Storage:** Store the binoculars in their soft pack in a cool, dry place when not in use. Avoid extreme temperatures and high humidity.
- **Handling:** While durable and waterproof, avoid unnecessary impacts or dropping the binoculars.

7. TROUBLESHOOTING

If you encounter issues with your binoculars, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Improper diopter adjustment.	Re-adjust the individual focusing rings for each eyepiece until the image is sharp.
Compass light not working.	Low or dead battery (LR936/AG9).	Replace the battery. Ensure it is inserted with correct polarity.
Internal fogging of lenses.	Extreme temperature changes or seal compromise.	Allow binoculars to acclimate to temperature. If persistent, contact support. (Note: Nitrogen purging minimizes this.)
Difficulty reading rangefinder reticle.	Insufficient light or unfamiliarity with reticle use.	Ensure adequate ambient light. Review Section 5.1 on Rangefinder use.

8. TECHNICAL SPECIFICATIONS

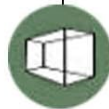
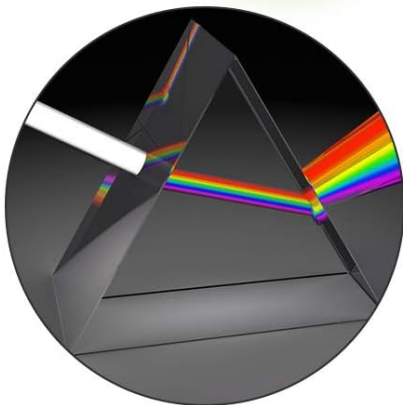
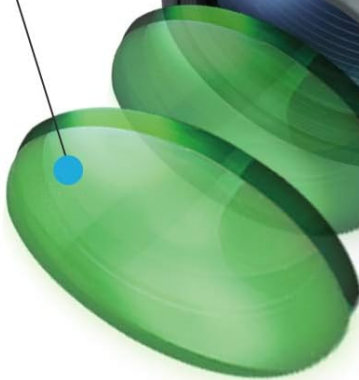
Detailed specifications for the USCAMEL 10X50 Marine Binoculars:

Feature	Specification
Magnification	10x
Objective Lens Diameter	50 mm
Eyepiece Diameter	26 mm
Field of View	396 feet at 1000 yards (132m at 1000m)
Prism Type	BAK4
Lens Coating	FMC (Fully Multi-Coated)
Waterproof Rating	IPX7 (Nitrogen-filled and O-ring sealed)
Special Features	Internal Rangefinder, Illuminated Compass, Floats on Water
Product Dimensions	7.36 x 5.75 x 0.1 inches
Item Weight	1.94 pounds
Model Number	UW004

EXCELLENT PROFESSIONAL OPTIC

FMC Lenses

Fully Multi-Coated Lenses
Ensure Clear View



BAK4 Prism

Excellent Quality BAK4 Prism 99% transmittance

Image 8.1: Illustration of FMC (Fully Multi-Coated) lenses and BAK4 prism, contributing to clear optical performance.

9. WARRANTY AND SUPPORT

USCAMEL is committed to providing high-quality optical products. For any questions, technical assistance, or warranty claims, please refer to the contact information provided with your purchase documentation or visit the official USCAMEL website. Keep your purchase receipt as proof of purchase for any warranty services.

