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Bushnell 8x25mm Binocular (Model 138005C)

Bushnell H2O Waterproof/Fogproof Compact Roof Prism Binocular User Manual

Model: 8x25mm (Model 138005C)

Introduction

This user manual provides detailed instructions for the proper use, care, and maintenance of your Bushnell H2O Waterproof/Fogproof Compact Roof Prism Binocular. Designed for clarity and durability, this 8x25mm binocular is ideal for various outdoor activities, offering bright, crisp viewing in diverse conditions. Please read this manual thoroughly to ensure optimal performance and longevity of your device.

Key Features

- **Magnification x Objective:** 8 x 25 millimeter, providing clear and detailed views.
- **BaK-4 Prisms:** Ensures bright, clear, and crisp viewing quality.
- **Multi-Coated Optics:** Enhances light transmission for superior image brightness and clarity.
- **100% Waterproof:** O-ring sealed to prevent moisture from entering the binocular.
- **Fogproof:** Nitrogen purged for reliable, fog-free performance in varying temperatures.
- **Non-Slip Rubber Armor:** Absorbs shock and provides a secure, firm grip.
- **Close Focus Distance:** Capable of focusing on objects as close as 15 feet.
- **Eye Relief:** 12 millimeter eye relief for comfortable viewing, especially for eyeglass wearers.
- **Large Center Focus Knob:** Allows for easy and precise adjustments.
- **Twist-Up Eyecups:** Adjustable eyecups for customized viewing comfort.

Parts of the Binocular



Figure 1: Front view of the Bushnell H2O 8x25mm binocular, showcasing the objective lenses and the central focus mechanism.



Figure 2: Side view of the binocular, highlighting the rubber armor for enhanced grip and shock absorption.

1. **Objective Lenses:** The large lenses at the front of the binocular that gather light.
2. **Eyecups:** Adjustable cups at the eyepiece end for comfortable viewing, especially for eyeglass wearers.
3. **Center Focus Knob:** The large central wheel used to adjust the focus for both eyepieces simultaneously.
4. **Diopter Adjustment Ring:** Located on the right eyepiece, used to compensate for differences in vision between your left and right eyes.
5. **Hinge:** Allows the binocular barrels to fold for interpupillary distance adjustment.
6. **Neck Strap Lugs:** Points for attaching the included neck strap.

Setup

1. Adjusting Interpupillary Distance (IPD)

The interpupillary distance is the distance between the centers of your pupils. To set the correct IPD for your binocular:

- Hold the binocular with both hands and look through the eyepieces at a distant object.
- Bend the binocular at the hinge until you see a single, clear circular field of view.
- Note this setting for future use.

2. Adjusting Eyecups

Your Bushnell H2O binocular features twist-up eyecups for comfortable viewing with or without eyeglasses.

- **For non-eyeglass wearers:** Twist the eyecups counter-clockwise until they are fully extended. This positions your eyes at the optimal distance from the eyepieces.
- **For eyeglass wearers:** Twist the eyecups clockwise until they are fully retracted. This allows your eyeglasses to be closer to the eyepiece lenses, providing a full field of view.

3. Focusing the Binocular

To achieve a sharp image, you must properly focus the binocular for your eyes:

- First, close your right eye and look through the left eyepiece. Rotate the center focus knob until the image is sharp and clear.
- Next, close your left eye and look through the right eyepiece. Rotate the diopter adjustment ring (on the right eyepiece) until the image is sharp and clear.
- Now, with both eyes open, use only the center focus knob to focus on objects at varying distances. The diopter setting should only need to be adjusted once for your eyes.

Operating Instructions

Once the binocular is set up for your eyes, using it is straightforward:

- Bring the binocular to your eyes, ensuring your IPD is correctly set for a single circular view.
- Locate your desired object.
- Adjust the center focus knob until the object appears sharp and clear.
- For prolonged viewing, ensure a stable position to minimize hand shake.

Maintenance and Care

Cleaning Lenses

Proper cleaning of the binocular lenses is crucial for maintaining optical quality. Always use a soft, lint-free cloth specifically designed for optics.

- Remove any loose dust or debris with a soft brush or by blowing lightly on the lens surface.
- Apply a small amount of lens cleaning fluid to a clean optical cloth, not directly to the lens.
- Gently wipe the lens surface in a circular motion.
- Avoid excessive pressure or abrasive materials, which can scratch the lens coatings.

Storage

When not in use, store your binocular in a cool, dry place. The included case provides protection from dust and minor impacts.

Waterproof and Fogproof Properties



Figure 3: The binocular's waterproof design ensures performance even when exposed to rain or splashes.



Figure 4: Visual representation of the water-repelling properties, indicating the binocular's waterproof capability.

The Bushnell H2O binocular is O-ring sealed and nitrogen purged, making it fully waterproof and fogproof. This means it can withstand immersion in water and will not fog up internally due to rapid temperature changes. While designed for durability, avoid unnecessary exposure to extreme conditions and always dry the exterior thoroughly after use in wet environments.

Troubleshooting

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Improper focus adjustment.	Adjust the center focus knob and diopter ring as described in the "Focusing the Binocular" section.
Seeing two overlapping images or a non-circular field of view.	Interpupillary distance (IPD) is not correctly set.	Adjust the hinge of the binocular until a single, perfectly circular field of view is achieved.
Image appears dim or unclear.	Dirty lenses or insufficient light.	Clean the objective and eyepiece lenses using proper cleaning methods. Ensure adequate lighting conditions for viewing.
Internal fogging of lenses.	Extreme temperature change or seal compromise.	The binocular is nitrogen purged to prevent internal fogging. If fogging occurs internally, contact Bushnell customer support as this may indicate a seal issue.

Specifications

Attribute	Detail
Magnification x Objective	8 x 25 millimeter
Prism Type	Roof Prism (BaK-4)
Optics Coating	Multi-coated
Waterproof	Yes (O-ring sealed)
Fogproof	Yes (Nitrogen purged)
Close Focus Distance	15 feet
Eye Relief	12 millimeter
Item Weight	340 Grams

Attribute	Detail
Item Dimensions (LxWxH)	5 x 4 x 2.75 inches
Material	Rubber Armor
Color	Black
Model Name	138005C
Part Number	BN138005
Included Components	Binocular, case, strap

Warranty Information



Figure 5: Bushnell Lifetime Ironclad Warranty emblem.

Bushnell products are engineered to deliver to your expectation and manufactured to withstand the rigors of the outdoors for the lifetime of the product. In the event that your product fails you, Bushnell will stand behind it and repair it at no cost to you. If they can't repair it, they will replace it with a product of equal or better value. No receipt is required, and the warranty is fully transferable.

For detailed warranty terms and conditions, please refer to the official Bushnell website or contact their customer service.

Support

For further assistance, technical support, or warranty claims, please visit the official Bushnell website or contact their customer service department. Keep your product model number (138005C) and any relevant purchase information handy when seeking support.

You can find more information and support resources at theBushnell Store on Amazon.

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