

Bushnell 158042

Bushnell H2O Waterproof/Fogproof Roof Prism Binocular 8x42mm Instruction Manual

Model: 158042

INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your Bushnell H2O Waterproof/Fogproof Roof Prism Binocular 8x42mm. Designed for clarity and durability, these binoculars feature 8x magnification and a 42mm objective diameter, making them suitable for various outdoor activities. Key features include BaK-4 prisms, multi-coated optics for improved light transmission, and a robust, non-slip rubber armor. The binoculars are 100% waterproof and fogproof, achieved through O-ring sealing and nitrogen purging, ensuring reliable performance in diverse environmental conditions.

SETUP

1. Unpacking and Initial Inspection

- Carefully remove the binoculars and all accessories from the packaging.
- Verify that all components are present and undamaged.
- Familiarize yourself with the main parts: objective lenses, eyepieces, center focus knob, diopter adjustment ring, and eyecups.

2. Adjusting Interpupillary Distance (IPD)

The interpupillary distance is the space between your pupils. To match this distance with your binoculars, hold the binoculars up to your eyes and look through them. Move the two halves of the binoculars closer together or further apart until you see a single, clear circular field of view. This adjustment ensures comfortable viewing and prevents eye strain.

3. Adjusting Eyecups

Your Bushnell H2O binoculars are equipped with twist-up eyecups. If you do not wear eyeglasses, twist the eyecups counter-clockwise until they are fully extended. This positions your eyes at the optimal distance from the ocular lenses. If you wear eyeglasses, twist the eyecups clockwise until they are fully retracted. This allows you to see the full field of view without removing your glasses.



Image: Front view of the Bushnell H2O 8x42mm Binoculars, showing the objective lenses and the central focus mechanism.

OPERATING INSTRUCTIONS

1. Focusing Procedure

1. **Diopter Adjustment:** First, cover the right objective lens (the large lens at the front) with your hand or the objective lens cap. Look through the binoculars with your left eye at a distant object. Rotate the center focus knob until the image is sharp and clear for your left eye.
2. Next, uncover the right objective lens and cover the left objective lens. Look through the binoculars with your right eye. Without touching the center focus knob, rotate the diopter adjustment ring (located on the right eyepiece) until the image is sharp and clear for your right eye.
3. Once the diopter is set, you will only need to use the center focus knob to focus on objects at varying distances.

2. Understanding Magnification and Objective Diameter

The '8x42mm' designation indicates the binoculars' specifications:

- **8x Magnification:** Objects viewed through these binoculars will appear 8 times closer than they are to the naked eye.
- **42mm Objective Diameter:** The objective lenses have a diameter of 42 millimeters. Larger objective lenses gather more light, resulting in brighter images, especially in low-light conditions.

MAINTENANCE

1. Cleaning Lenses

Use a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lenses to remove dust or smudges. For stubborn dirt, a small amount of lens cleaning fluid applied to the cloth (not directly to the lens) can be used. Avoid using abrasive cloths or excessive pressure, which can scratch the lens coatings.

2. Cleaning Body

The exterior of the binoculars can be cleaned with a soft, damp cloth. Avoid using harsh chemicals or solvents, as these may damage the rubber armor or finish.

3. Storage

When not in use, store your binoculars in their protective case in a cool, dry place. Avoid prolonged exposure to direct sunlight or extreme temperatures.

4. Waterproof and Fogproof Features

These binoculars are 100% waterproof and fogproof. They are O-ring sealed to prevent moisture from entering the housing and nitrogen purged to eliminate internal fogging caused by rapid temperature changes. While designed for robust use, avoid unnecessary submersion or exposure to high-pressure water jets.



Image: Angled view of the Bushnell H2O 8x42mm Binoculars, highlighting the textured grip and focus knob.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Image is blurry or out of focus	Improper focusing; Diopter not adjusted correctly.	Re-adjust the center focus knob. Follow the diopter adjustment procedure outlined in the 'Operating Instructions' section.
Dark edges or partial view	Interpupillary distance not set; Eyecups not adjusted for eyeglasses.	Adjust the interpupillary distance until a single circular field of view is seen. Adjust eyecups for comfortable viewing, especially if wearing glasses.
Internal fogging	Rapid temperature change (unlikely due to nitrogen purging, but possible if seals are compromised).	Allow binoculars to acclimate to the new temperature. If fogging persists, contact customer support.

Problem	Possible Cause	Solution
Dust or smudges on lenses	Exposure to environmental elements.	Clean lenses gently with a soft, lint-free optical cloth as described in the 'Maintenance' section.

SPECIFICATIONS

Feature	Detail
Brand	Bushnell
Model Number	158042
Magnification Maximum	8x
Objective Lens Diameter	42mm
Prism Type	Roof Prism (BaK-4)
Optics Coating	Multi-coated
Waterproof	Yes (O-ring sealed)
Fogproof	Yes (Nitrogen purged)
Close Focus Distance	12 feet
Eye Relief	17mm
Eyecups	Twist-up
Item Weight	710 g
Product Dimensions (LxWxH)	17.8 x 15.2 x 7.6 Centimeters

WARRANTY AND SUPPORT

Bushnell products are manufactured to high standards and are designed for durability. For specific warranty details regarding your Bushnell H2O Waterproof/Fogproof Roof Prism Binocular 8x42mm, please refer to the warranty card included with your product or visit the official Bushnell website. In case of any issues or for technical assistance, please contact Bushnell customer support directly. Contact information can typically be found on the manufacturer's website or in the product packaging. For general inquiries or to access support resources, you may visit the Bushnell website at www.bushnell.com.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question