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› ESSLNB 20-60x80 Spotting Scope User Manual

ESSLNB ES4037

ESSLNB 20-60x80 Spotting Scope User Manual

Model: ES4037

Brand: ESSLNB

1. INTRODUCTION

Thank you for choosing the ESSLNB 20-60x80 Spotting Scope. This manual provides detailed instructions for the proper setup, operation, and maintenance of your new spotting scope. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

This spotting scope is designed for a variety of outdoor activities, including bird watching, wildlife observation, target shooting, hunting, and moon watching, offering clear and magnified views of distant objects.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Spotting Scope
- 1 x Stable Tripod
- 1 x Phone Adapter
- 1 x Storage Bag
- 1 x Eyepiece Lens Cap
- 1 x Objective Lens Cap
- 1 x Cleaning Cloth
- 1 x Instruction Manual

All You Need in One Box

- | | | |
|-------------------|-----------------------|----------------------|
| 1. Storage Bag | 4. Instruction | 7. Eyepiece Lens Cap |
| 2. Spotting Scope | 5. Cleaning Cloth | 8. Tripod |
| 3. Phone Adapter | 6. Objective Lens Cap | |



Figure 2.1: All components included in the package. (1) Storage Bag, (2) Spotting Scope, (3) Phone Adapter, (4) Instruction Manual, (5) Cleaning Cloth, (6) Objective Lens Cap, (7) Eyepiece Lens Cap, (8) Tripod.

3. PRODUCT OVERVIEW

Familiarize yourself with the main parts of your ESSLNB spotting scope:



22mm Eyepiece



Dual Focus Knob



Sunshade



Stable Tripod

Figure 3.1: Key components of the ESSLN B 20-60x80 Spotting Scope.

- **Eyepiece:** The part you look through, featuring a 22mm large eyepiece for comfortable viewing and a twist-up eyecup.
- **Dual Focus Knob:** Allows for both coarse and fine adjustments to achieve a sharp image.
- **Sunshade:** Extends to reduce glare and protect the objective lens.
- **Objective Lens:** The large front lens, 80mm in diameter, gathers light for bright images.
- **Tripod Mount:** Connects the scope to the included stable tripod.

Optical Performance

The ESSLN B spotting scope is engineered for superior optical clarity:



BAK4 Porro Prism reduces light reflection and provides a bright view

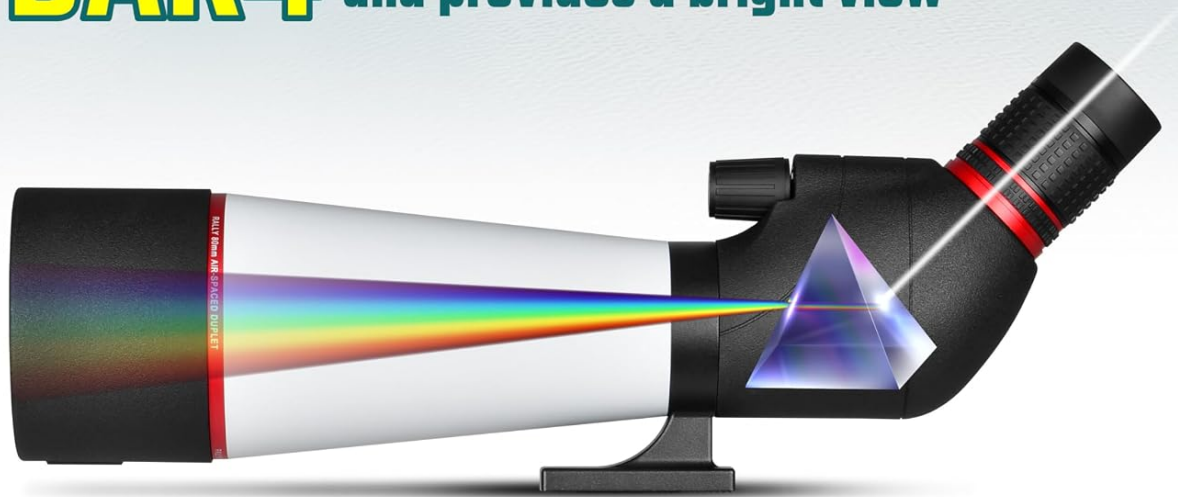


Figure 3.2: BAK4 Porro Prism technology for reduced light reflection and brighter views.

- **BAK4 Prisms:** High-density BAK4 Porro prisms are utilized to increase light transmission, delivering bright, clear, and high-contrast images.
- **Fully Multi-Coated Lenses:** All air-to-glass surfaces are fully multi-coated to minimize light loss and glare, enhancing image brightness and clarity.



Fully Multi-Coated 80mm Objective Lens



60mm



70mm



80mm

Figure 3.3: The 80mm objective lens provides a wider and brighter field of view compared to smaller lenses.

4. SETUP

4.1 Attaching the Spotting Scope to the Tripod

1. Unfold the legs of the stable tripod and place it on a flat, stable surface.
2. Locate the tripod mounting screw on the top of the tripod head.
3. Align the tripod mount on the bottom of the spotting scope with the tripod screw.
4. Gently screw the scope onto the tripod until it is securely fastened. Do not overtighten.
5. Adjust the tripod legs and head to achieve your desired viewing height and angle. The tripod allows for 360-degree rotation for flexible viewing.



Figure 4.1: The ESSLN B spotting scope assembled with the tripod.

4.2 Attaching the Phone Adapter

1. Securely attach the phone adapter to the eyepiece of the spotting scope. Ensure it is firmly in place.
2. Place your smartphone into the phone adapter, adjusting the clamps to hold it securely without obstructing the camera lens.
3. Align your phone's camera with the eyepiece of the scope. You may need to adjust the phone's position slightly to center the image on your screen.



Figure 4.2: The phone adapter allows for easy capture of photos and videos through the spotting scope.

5. OPERATING THE SPOTTING SCOPE

5.1 Adjusting Magnification (20x-60x)

The ESSLNB spotting scope features a powerful zoom eyepiece, allowing you to adjust the magnification from 20x to 60x.

1. To change the magnification, rotate the zoom ring on the eyepiece.
2. Turn the ring clockwise to increase magnification (e.g., from 20x to 60x).
3. Turn the ring counter-clockwise to decrease magnification (e.g., from 60x to 20x).
4. Start with lower magnification (20x) to locate your target, then gradually increase to higher magnification for more detail.

20-60x Magnification



Figure 5.1: Adjusting the 20-60x zoom magnification.

5.2 Focusing

The dual focus wheel system provides precise focusing capabilities.

1. After selecting your desired magnification, use the larger focus knob for coarse adjustments to bring the image into approximate focus.
2. Then, use the smaller focus knob for fine-tuned adjustments to achieve a sharp and clear image.

5.3 Using the Angled Eyepiece

The 45-degree angled eyepiece provides an ergonomic design for more comfortable viewing, especially during prolonged observation sessions or when viewing objects at different elevations.

5.4 Using the Sunshade

To reduce glare from direct sunlight or other bright light sources, gently pull out the sunshade located around the objective lens. Push it back in when not needed.

6. MAINTENANCE AND CARE

6.1 Cleaning the Lenses

To clean the lenses, use the provided cleaning cloth or a soft, lint-free cloth. For stubborn smudges or dirt, use a lens cleaning solution specifically designed for optical instruments. Apply the solution to the cloth, not directly to the lens, and gently wipe in a circular motion.

Caution: Never use abrasive cloths, paper towels, or household cleaners on the lenses, as this can scratch the coatings.

6.2 Cleaning the Body

Wipe the body of the spotting scope with a soft, damp cloth. Avoid using harsh chemicals or solvents.

6.3 Waterproof and Fogproof Features

The ESSLNB spotting scope is O-ring sealed and nitrogen-filled, making it IPX6 waterproof and fogproof. This prevents moisture, dust, and debris from entering the scope, ensuring reliable performance in various weather conditions.

Nitrogen purged and o-ring sealed prevent moisture, dust and debris from entering the interior.



**IPX6
Waterproof**



**Anti-Fog
Technology**



Figure 6.1: The spotting scope is designed to be waterproof and fogproof.

6.4 Storage

When not in use, store the spotting scope in its protective carrying bag in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure lens caps are in place to protect the optics.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Improper focus adjustment.	Adjust the dual focus knobs until the image is sharp. Start with coarse adjustment, then fine-tune.

Problem	Possible Cause	Solution
Dark edges or vignetting in the view.	Eyepiece not properly positioned or eye relief not set correctly.	Adjust your eye position relative to the eyepiece. Ensure the twist-up eyecup is set for comfortable viewing.
Image is dim.	Low light conditions; high magnification in low light.	Lower the magnification. Ensure objective lens is clean. Use in adequate lighting.
Unstable image / excessive shaking.	Tripod not stable; windy conditions.	Ensure tripod legs are fully extended and stable on a flat surface. Use a more robust tripod if needed for high magnification or windy conditions.
Phone adapter not holding phone securely or image not centered.	Improper phone placement or adapter adjustment.	Ensure phone is firmly clamped. Adjust phone position within the adapter to align camera lens with the eyepiece.

8. SPECIFICATIONS

Model Name	ES4037
Magnification	20-60x
Objective Lens Diameter	80mm
Prism Type	BAK4 Porro Prism
Field of View	158-57.7 ft/1000 yards
Waterproof Rating	IPX6 (O-ring sealed, Nitrogen filled)
Material	Aluminum
Color	Black
Item Package Dimensions	17.72 x 7.01 x 4.65 inches
Package Weight	2.01 Kilograms

9. WARRANTY INFORMATION

The ESSLNB 20-60x80 Spotting Scope comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use.

Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, or to initiate a claim, please refer to the contact information provided in the support section.

10. SUPPORT

If you encounter any issues not covered in the troubleshooting section, or require further assistance with your ESSLNB spotting scope, please contact ESSLNB customer support.

For the most up-to-date support information, including contact details and FAQs, please visit the official ESSLNB website or refer to the contact information provided with your product packaging.

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