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SVBONY SV42

SVBONY SV42 8x42 Monocular User Manual

Model: SV42

1. Introduction

Thank you for purchasing the SVBONY SV42 8x42 Monocular. This device is designed for clear and bright observation, featuring an 8x magnification, a 42mm objective lens, a built-in compass, and a rangefinder reticle. Its waterproof and fogproof construction makes it suitable for various outdoor conditions. Please read this manual carefully to understand the proper use and care of your monocular.

2. Safety Information

- **Warning:** Do not look directly into the sun with this monocular, as it can cause severe and permanent eye damage.
- Keep the monocular away from small children to prevent accidental damage or misuse.
- Store the monocular in a dry, cool place when not in use.

3. Package Contents

Upon opening your SVBONY SV42 Monocular package, please verify that all the following items are included:

- SVBONY SV42 8x42 Monocular
- Instruction Manual
- Cleaning Cloth
- Wrist Strap
- Objective Lens Cap
- Eyepiece Cap



Image 3.1: Contents of the SVBONY SV42 Monocular package.

4. Product Overview

Familiarize yourself with the different parts of your SVBONY SV42 Monocular:



Image 4.1: Labeled components of the SVBONY SV42 Monocular.

- **Eyepiece:** The lens through which you look.
- **Eyecup:** Adjustable rubber cup around the eyepiece for comfortable viewing and to block stray light.
- **Focus Knob:** Used to adjust the focus for a clear image.
- **Compass Window:** Displays the built-in compass for direction.
- **Objective Lens:** The large front lens that gathers light from the observed object.

5. Setup

1. **Unpacking:** Carefully remove the monocular and all accessories from the packaging.
2. **Remove Lens Caps:** Remove the protective caps from both the objective lens and the eyepiece.
3. **Attach Wrist Strap:** Securely attach the provided wrist strap to the monocular for added safety during use.
4. **Adjust Eyecup:** If you wear glasses, twist the eyecup down. If you do not wear glasses, twist the eyecup up for optimal viewing comfort and field of view.



Image 5.1: Eyecup adjustment for users with and without glasses.

6. Operating Instructions

6.1. Focusing

To achieve a clear image, follow these steps:

1. Hold the monocular with one hand.
2. Look through the eyepiece at your desired object.
3. Rotate the focus knob until the image appears sharp and clear. The SV42 is designed for single-hand focusing.



Image 6.1: Adjusting the focus knob for a clear view.

6.2. Using the Built-in Compass

The monocular features a built-in compass to indicate direction. The compass readings are from 0 (360) to 360 degrees, where 0 (or 360) represents true north, 90 represents east, 180 represents south, and 270 represents west.

- To read the compass, align the monocular with your desired direction.
- Observe the compass window to see the current bearing.

Important Tip: Do not cover the compass window with your hand during use, as this will interfere with the compass's accuracy.

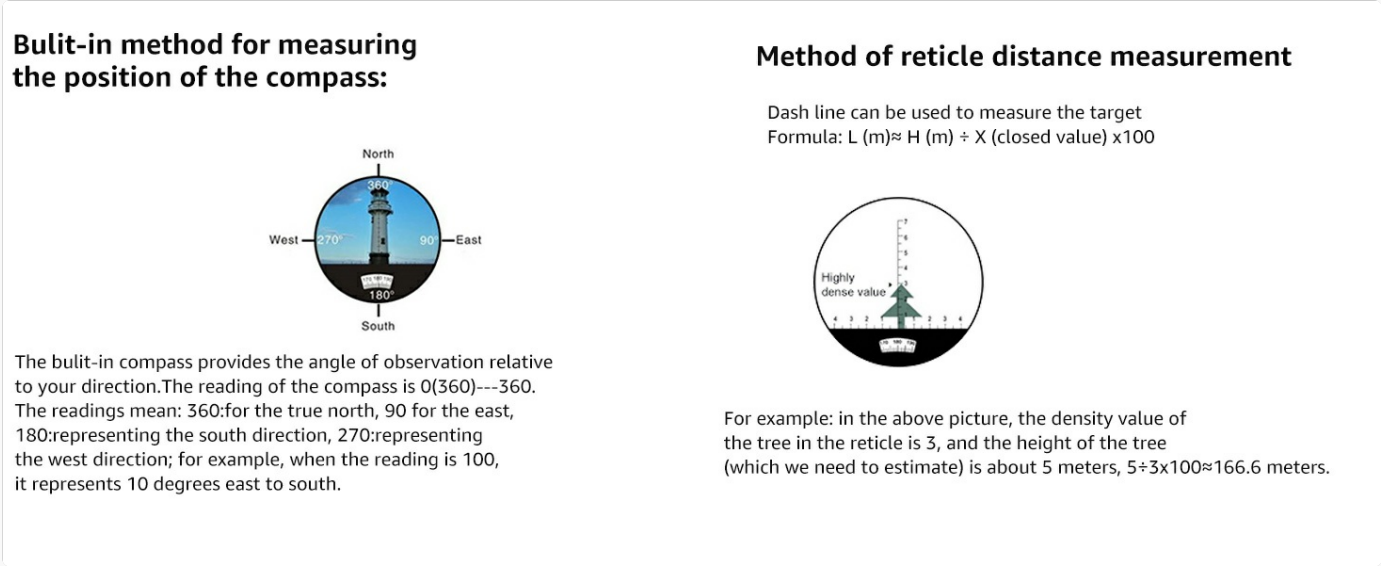


Image 6.2: Built-in compass and reticle for distance measurement.

6.3. Using the Rangefinder (Reticle)

The monocular includes a reticle (dash line) within the field of view to estimate the distance to an object. The formula for calculating distance is:

Distance (m) = [Height of Object (m) ÷ Reticle Reading] × 100

For example, if you estimate the height of a tree to be 5 meters and the reticle reading for the tree is 3 units, the estimated distance would be:

Distance = (5 m ÷ 3) × 100 ≈ 166.6 meters

Practice with known distances and object heights to improve your accuracy.

7. Maintenance

7.1. Cleaning

- **Lenses:** Use the provided cleaning cloth or a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lens surfaces. For stubborn smudges, use a small amount of optical lens cleaning fluid applied to the cloth, not directly to the lens.
- **Body:** Wipe the monocular body with a soft, damp cloth. Avoid using abrasive cleaners or solvents.

7.2. Storage

- Always replace the objective lens cap and eyepiece cap when the monocular is not in use to protect the lenses from dust and scratches.
- Store the monocular in its original packaging or a protective case in a dry, cool, and well-ventilated area.
- Avoid storing in direct sunlight or areas with extreme temperature fluctuations.

8. Troubleshooting

Problem	Possible Cause	Solution
Image is blurry	Incorrect focus setting	Adjust the focus knob until the image is sharp.
Image is dark or dim	Low light conditions; dirty lenses	Ensure sufficient ambient light. Clean the objective lens and eyepiece.

Problem	Possible Cause	Solution
Compass reading is inaccurate or stuck	Magnetic interference; compass window covered	Move away from strong magnetic fields (e.g., large metal objects). Ensure the compass window is not obstructed. Gently tap the monocular to free the compass needle if stuck.
Fogging inside lenses	Extreme temperature changes (though unit is fogproof, severe conditions can cause temporary external condensation)	Allow the monocular to acclimate to the ambient temperature. Wipe external condensation with a soft cloth. If internal fogging persists, contact support.

9. Specifications

Feature	Detail
Model Name	SV42
Magnification	8x
Objective Lens Diameter	42 mm
Eyepiece Lens Diameter	23 mm
Prism Type	BAK4
Field of View	375ft/1000yds
Focus Type	Manual Focus
Waterproof Rating	IPX6
Special Features	Built-in Compass, Rangefinder Reticle
Product Dimensions	7.08 x 2.75 x 3.34 inches (17.98 x 6.98 x 8.48 cm)
Item Weight	11.6 ounces (330 g)
Optical Tube Length	145 Millimeters
Mounting	Standard threaded interface for tripod connection



Image 9.1: SVBONY SV42 Monocular dimensions and weight.

10. Warranty & Support

SVBONY products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official SVBONY website. Please retain your proof of purchase for any warranty claims.

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