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> SVBONY M2 Waterproof Pocket Compass Inclinometer User Manual

SVBONY EUF9134A

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Model: EUF9134A

1. INTRODUCTION

The SVBONY M2 Pocket Compass Inclinometer is a versatile and durable instrument designed for navigation and angle measurement in various outdoor environments. Its waterproof and anti-fog features ensure reliable performance in challenging conditions, making it ideal for hiking, camping, geological exploration, and other outdoor activities.



Figure 1: SVBONY M2 Pocket Compass Inclinator in closed position.

2. PRODUCT FEATURES

- **Durable Construction:** Made from plastic, ensuring a lightweight design (106g) for easy portability.
- **Waterproof and Anti-fog:** Designed to withstand wet conditions and prevent internal fogging.
- **Multifunctional Design:** Features a metallic, foldable cover and a 360-degree floating scale.
- **Adjustable Prism:** Allows for precise readings.
- **High Accuracy:** Offers a resolution of 1 degree and an accuracy of 1/2 degree.
- **Additional Functions:** Includes a luminometer, bubble level, rubber line, and sighting hole for enhanced utility.
- **Shockproof:** Built to endure impacts during outdoor use.



Figure 2: Key components of the SVBONY M2 Compass Inclinometer, including short diopter, cover, mirror, line of sight, vertical scale, plate level, circular bubble, long diopter, base, needle, magnetic brake, horizontal circle, and join hinges.



Figure 3: The compass inclinometer is waterproof, shown here with water droplets on its surface.

3. PACKAGE CONTENTS

Upon opening your SVBONY M2 Compass Inclinometer package, please verify that all items are present and in good condition:

- SVBONY M2 Pocket Compass Inclinometer
- Carrying Pouch (typically included for protection and transport)
- User Manual (this document)



Figure 4: The compass inclinometer shown with its protective carrying pouch.

4. SETUP

Before using your SVBONY M2 Compass Inclinometer, perform the following initial setup steps:

1. **Unpack:** Carefully remove the compass from its packaging and carrying pouch.
2. **Open the Cover:** Fold open the metallic cover to reveal the compass dial and sighting mechanisms.
3. **Check Bubble Level:** Ensure the compass is held level. The circular bubble level (Figure 2) should be centered to guarantee accurate readings. Adjust your hand or the surface until the bubble is centered.
4. **Adjust Prism (if necessary):** The prism is adjustable for optimal viewing of the floating scale. Rotate the prism mechanism until the scale is clear and focused.
5. **Familiarize with Components:** Refer to Figure 2 to identify all parts of the compass, such as the needle, horizontal circle, vertical scale, and sighting elements.



Figure 5: The circle adjusting screw for fine-tuning and the opening mechanism of the compass cover.

5. OPERATING INSTRUCTIONS

The SVBONY M2 Compass Inclinator offers both compass and inclinometer functionalities. Follow these steps for accurate operation:

5.1. Using the Compass for Direction Finding

1. **Hold Level:** Hold the compass firmly and level, ensuring the circular bubble is centered.
2. **Orient Yourself:** Allow the magnetic needle to settle. The red end of the needle typically points North.
3. **Take a Bearing:**
 - **Sighting Method:** Align the line of sight (Figure 2) with your target. Look through the short diopter and align the long diopter with the target. Read the bearing from the floating scale through the adjustable prism.
 - **Direct Reading:** For a quick general direction, simply read the degree value on the horizontal circle that aligns with the North end of the needle.
4. **Map Orientation:** Place the compass on a map. Align the compass's North with the North direction on the map to orient the map correctly.

5.2. Using the Inclinometer for Angle Measurement

The inclinometer measures vertical angles (slope or dip).

1. **Position the Compass:** Place the compass on the surface whose angle you wish to measure, or hold it vertically against the object.
2. **Read the Vertical Scale:** The inclinometer needle will indicate the angle on the vertical scale (Figure 2). Ensure the compass is stable for an accurate reading.
3. **Adjusting for Slope:** For measuring slopes, ensure the base of the compass is parallel to the slope.



Figure 6: The compass inclinometer used for navigation on a map.



Figure 7: Various perspectives of the compass inclinometer being used in an outdoor setting.

6. MAINTENANCE

Proper maintenance will extend the life and accuracy of your SVBONY M2 Compass Inclinometer:

- **Cleaning:** Wipe the compass body with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the plastic or markings. For the mirror and prism, use a lens cleaning cloth.
- **Storage:** Store the compass in its protective carrying pouch when not in use. Keep it in a cool, dry place away from direct sunlight and strong magnetic fields.
- **Avoid Strong Magnetic Fields:** Do not store or use the compass near magnets, electronic devices, or metal objects that could interfere with the magnetic needle's accuracy.
- **Inspect Regularly:** Periodically check for any signs of damage, such as cracks in the casing or a sticky needle.

7. TROUBLESHOOTING

If you encounter issues with your SVBONY M2 Compass Inclinometer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Needle does not settle or points incorrectly.	Interference from magnetic objects or electronic devices.	Move away from any potential sources of magnetic interference (e.g., phones, metal structures, power lines).
Compass dial appears foggy.	Rapid temperature change or high humidity.	Allow the compass to acclimate to the ambient temperature. The anti-fog feature should clear it over time. Ensure the compass is sealed properly.
Inclinometer needle is stuck or inaccurate.	Compass not held level; internal obstruction or damage.	Ensure the compass is perfectly level using the bubble level. If the issue persists, contact customer support.
Difficulty reading the floating scale through the prism.	Prism not adjusted correctly; insufficient lighting.	Adjust the prism until the scale is clear and focused. Use the luminometer feature or move to a better-lit area if needed.

8. SPECIFICATIONS

- **Model Number:** EUF9134A
- **Dimensions (L x W x H):** 8 x 7 x 3.2 cm (3.15 x 2.76 x 1.26 inches)
- **Weight:** 106 grams (0.23 lbs)
- **Material:** Plastic
- **Special Features:** Waterproof, Shockproof, Bubble Level, Clinometer, Mirror with Sighting Hole
- **Compass Resolution:** 1 degree
- **Compass Accuracy:** 1/2 degree
- **Map Scale:** 1:50,000
- **UPC:** 714559053577

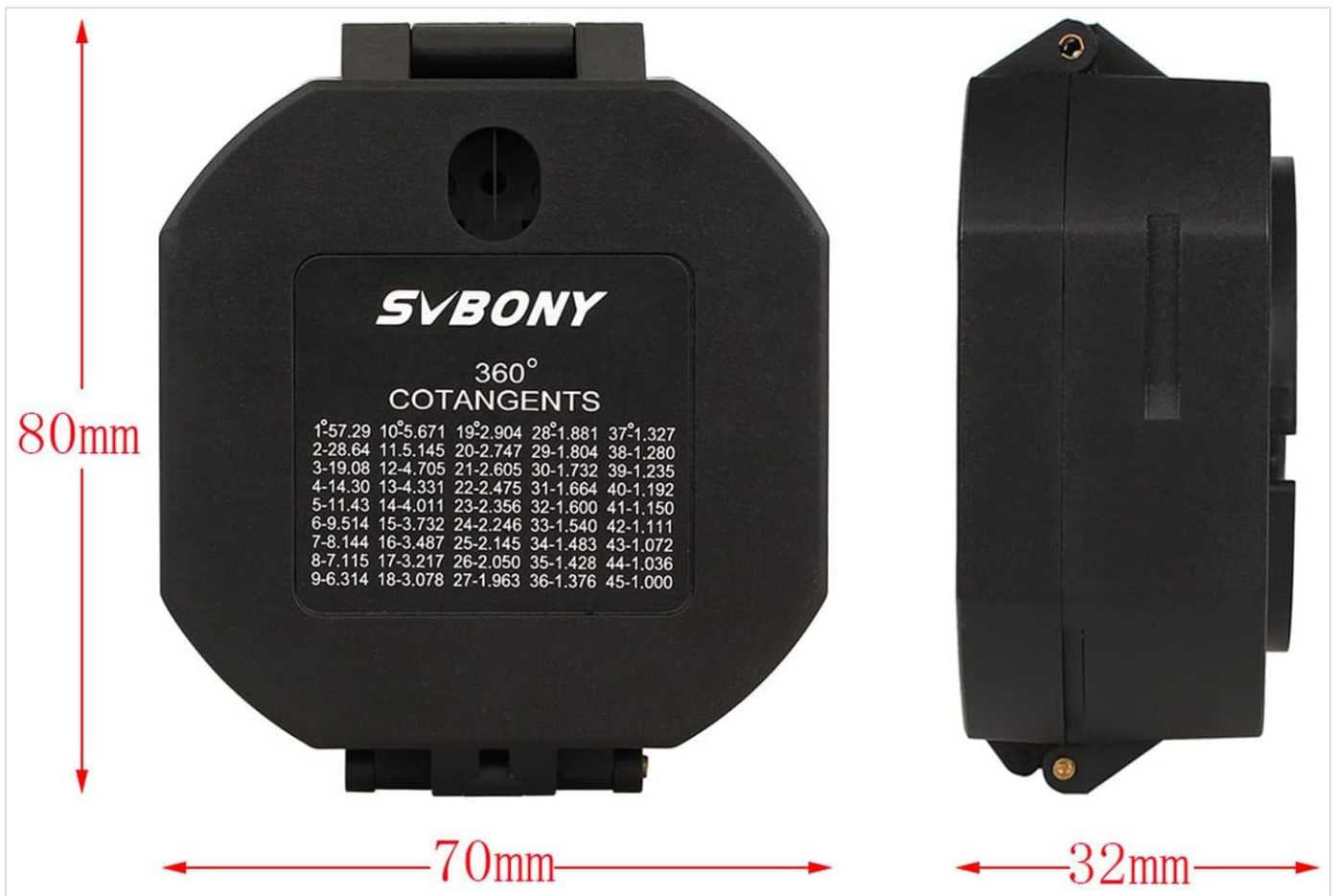


Figure 8: Detailed dimensions of the SVBONY M2 Compass Inclinometer.

9. WARRANTY AND SUPPORT

SVBONY stands by the quality of its products. Your SVBONY M2 Pocket Compass Inclinometer is covered by the following:

- **Warranty Period:** We offer a one-year warranty for SVBONY telescope accessories, which includes this compass.
- **Return Policy:** You are eligible for a 30-day return without reason.
- **Post-Warranty Service:** Even beyond the warranty period, we provide maintenance services. Buyers are responsible for any associated costs.
- **Customer Support:** For any inquiries or support needs, please contact us directly on Amazon. We commit to responding within 12 hours.