

SVBONY SV225 Mini

SVBONY SV225 Mini Alt-Azimuth Telescope Mount Instruction Manual

Model: SV225 Mini | Brand: SVBONY

1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your SVBONY SV225 Mini Alt-Azimuth Telescope Mount. Please read this manual thoroughly before using the product to ensure safe and optimal performance.

2. SAFETY INFORMATION

Always handle the mount and attached equipment with care. Ensure all locking mechanisms are secure before use. Do not look directly at the sun through a telescope without proper solar filters, as this can cause permanent eye damage.

3. WHAT'S IN THE BOX

- 1X SV225 Mini Alt-azimuth bracket
- 1X Height slow-motion flexible control cable
- 1X Azimuth slow motion flex control cable
- 1X Dovetailed main locking knob
- 1X Dovetailed secondary locking knob
- 2X Locking screws
- 1X User manual
- 1X 8mm L-type hexagonal socket
- 1X 2mm L-type hexagonal socket

4. SETUP INSTRUCTIONS

Follow these steps to assemble your SVBONY SV225 Mini Alt-Azimuth Mount and prepare it for use.

4.1. Unfold the Tripod

Begin by unfolding the tripod legs to a stable position. Ensure the tripod is placed on a level surface.



Image: A person unfolding the tripod legs.

4.2. Install the Tray Holder

Attach the accessory tray holder to the center column of the tripod. This provides a stable platform for accessories.



Image: A hand installing the accessory tray holder onto the tripod's center column.

4.3. Install the AZ Mount

Secure the SV225 Mini Alt-Azimuth mount onto the tripod's mounting screw. Rotate clockwise until firmly attached.



Image: A hand screwing the SV225 Mini mount onto the tripod head.

4.4. Install Locking Screws and Adjustment Handles

Insert the main and secondary locking knobs, and then attach the altitude and azimuth slow-motion flexible control cables. These allow for precise adjustments.



Image: Hands installing the locking screws and flexible control cables onto the mount.

4.5. Install the Optical Tube

Carefully place your telescope's optical tube onto the mount's dovetail saddle and secure it with the locking mechanisms. Ensure it is balanced.



Image: The SVBONY SV225 Mini Alt-Azimuth Mount with a white telescope optical tube mounted.

4.6. Install the Zenith Mirror and Eyepiece

Insert the Zenith Mirror into the focuser, then insert your desired eyepiece into the Zenith Mirror. Secure both with their respective thumbscrews.



Image: A hand installing a Zenith Mirror and eyepiece into a telescope focuser.

4.7. Install the Finderscope

Attach the finderscope to its bracket on the telescope tube. This aids in locating objects before viewing through the main eyepiece.



Image: A hand installing a finderscope onto the telescope tube.

4.8. Install Phone Holders (Optional)

If desired, attach the phone holders to the telescope for astrophotography or sharing views. Ensure your phone is securely mounted.



Image: A hand installing a phone holder onto the telescope's eyepiece.

5. OPERATING INSTRUCTIONS

The SV225 Mini Alt-Azimuth Mount offers intuitive controls for observing celestial objects.

5.1. Adjusting Azimuth and Elevation

The mount allows for 360° azimuthal rotation and tilt adjustment from -60° to +60°. Use the quick translation handle for broad movements and the slow-motion controls for fine adjustments.

360° Azimuth & -60° to +60° Elevation

Flexible observation, fully under your control

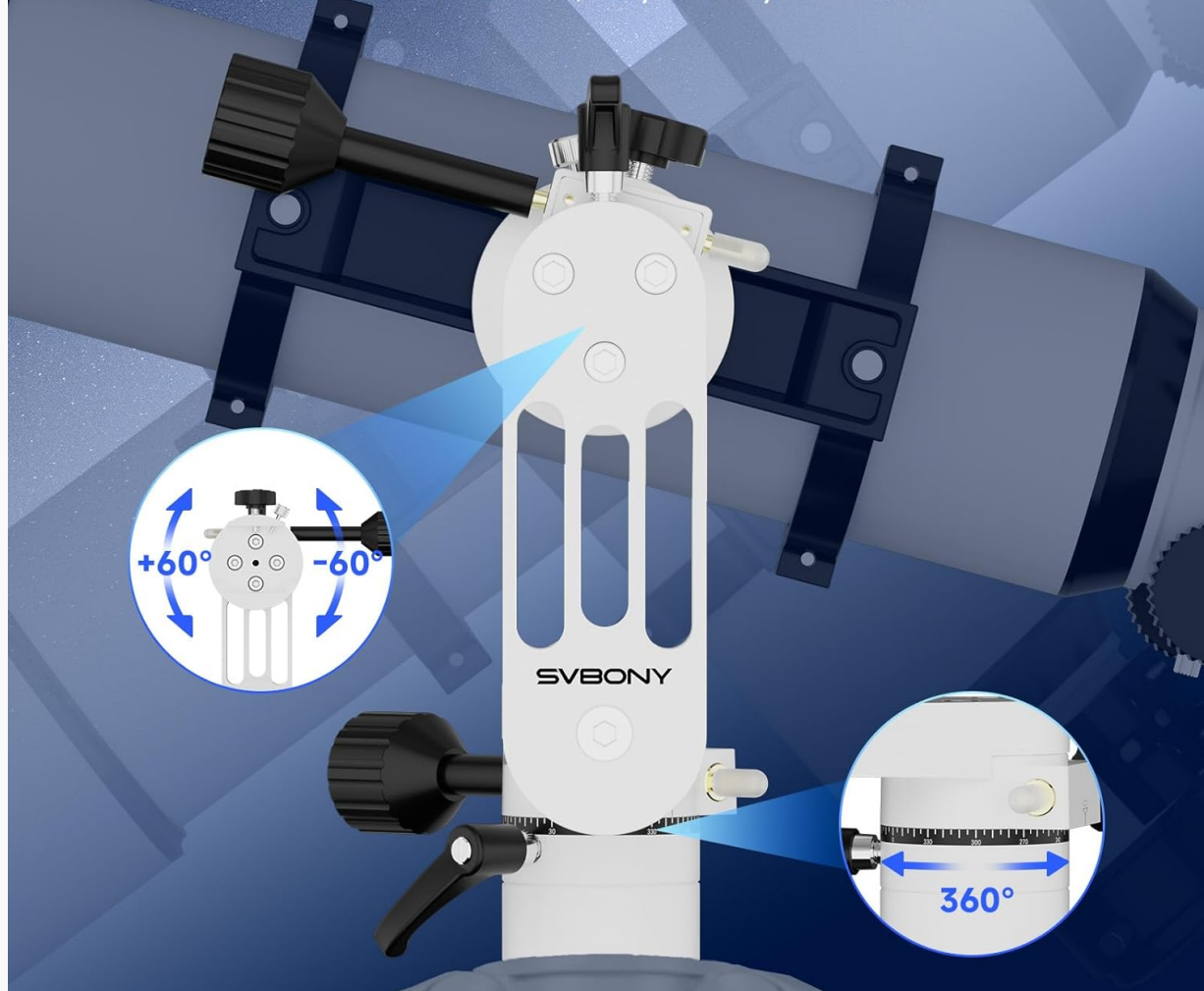


Image: Diagram illustrating the 360° azimuth and -60° to +60° elevation range of the SV225 Mini mount.

5.2. Using Slow-Motion Controls

The dual-axis turbine and gear fine-tuning design, combined with a 120-tooth gear, ensures stability and precision. Use the flexible control cables for smooth, precise tracking of objects across the sky.

No Backlash, No Lost Motion

- ✓ Precise rotation
no backlash or play
- ✓ High precision
backlash controlled within
20 degrees
- ✓ Gear locking mechanism
- ✓ 220*160*80mm/8.66*6.3*3.15"



Image: Close-up of the SV225 Mini mount highlighting the dual-axis worm gear and fine-tuning controls.

5.3. Backlash-Free Operation

The innovative backlash-free and play-free design ensures extremely precise and stable operation, preventing equipment rebound or jamming during observation.

Dual-axis Worm Gear & Gear Fine-tuning

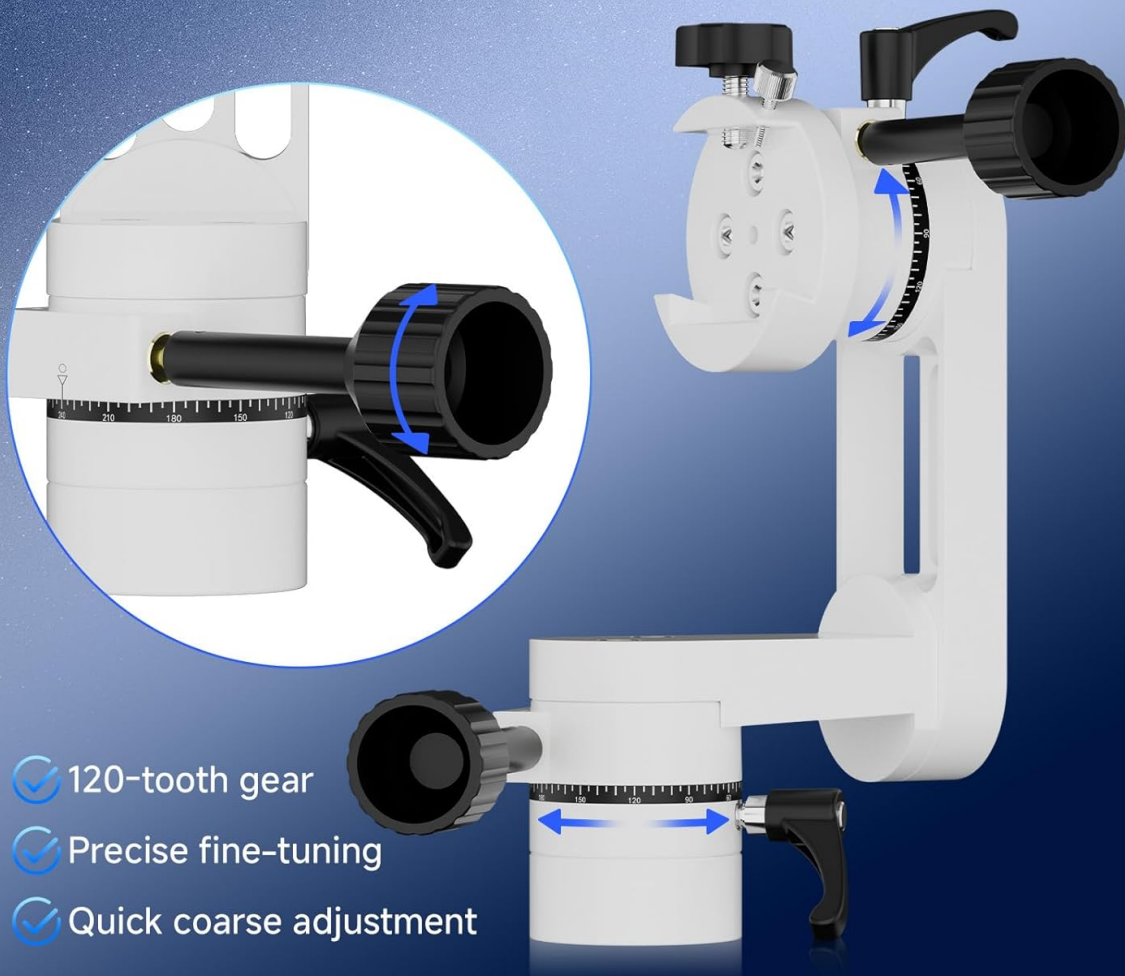


Image: Diagram illustrating the backlash-free design and gear locking mechanism of the SV225 Mini mount.

5.4. Digital Marked Dial

Clear numerical scales simplify manual adjustments and ensure precision, helping you easily locate and accurately adjust your target.

Digital Marked Dial

Manual adjustment can also be more precise.



Image: Close-up of the digital marked dial on the SV225 Mini mount for precise manual adjustments.

5.5. Official Product Videos

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Video: Demonstrates how to use the SVBONY SV225 Mini Alt-Azimuth Mount, covering basic operation and adjustments.

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Video: Highlights the key features of the SVBONY SV225 Mini Alt-Azimuth Mount, including its design and functionality.

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Video: Shows the SVBONY SV225 Mini Alt-Azimuth Mount in action, demonstrating its usage effects with a telescope.

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Video: An introductory overview of the SVBONY SV225 Mini Alt-Azimuth Mount, detailing its basic components and purpose.

6. MAINTENANCE

To ensure the longevity and optimal performance of your SVBONY SV225 Mini Alt-Azimuth Mount, follow these maintenance guidelines:

- **Cleaning:** Use a soft, lint-free cloth to wipe down the mount. Avoid abrasive materials or harsh chemicals that could damage the finish.
- **Lubrication:** Periodically check the movement of the axes. If they become stiff, apply a small amount of high-quality, non-acidic lubricant suitable for precision mechanics.
- **Storage:** When not in use, store the mount in a dry, dust-free environment. If storing for extended periods, consider covering it to protect from dust and moisture.
- **Inspection:** Regularly inspect all screws and connections to ensure they are tight. Re-tighten any loose components as necessary.

7. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Mount movement is stiff or jerky.	Lack of lubrication, overtightened screws, or debris in the gears.	Loosen screws slightly, clean any visible debris, and apply a small amount of lubricant to the moving parts.
Telescope is unstable or wobbles.	Loose tripod legs, mount not securely attached to tripod, or optical tube not balanced.	Ensure tripod legs are fully extended and locked. Tighten the mount securely to the tripod. Adjust the optical tube's position in the dovetail saddle for proper balance.
Slow-motion controls are not effective.	Control cables are loose or not properly engaged.	Check that the flexible control cables are securely attached to both the mount and the adjustment points. Ensure the locking mechanisms are not overtightened, preventing movement.

8. SPECIFICATIONS

Feature	Detail
Model Number	FW9181B
Product Dimensions	11.22 x 4.8 x 8 inches
Item Weight	3.41 pounds (1546 Grams)
Load Bearing Capacity	5kg (11lb)
Telescope Mount Description	Altazimuth Mount
Elevation Angle	-60° to +60°
Azimuthal Rotation	360°
Special Features	Mini, Lightweight, CNC Structure, Backlash-free Design, Dual-axis turbine and gear fine-tuning (120-tooth gear)

Feature	Detail
Compatible Devices	Telescope and SV225T tripod
Mounting Thread	UNC 3/8-16

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official SVBONY website or contact your retailer. Keep your purchase receipt as proof of purchase.

For additional resources and product information, visit the [SVBONY Store on Amazon](#).