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SVBONY SV407

SVBONY SV407 2.1x42mm Astronomy Binoculars User Manual

Model: SV407

1. Introduction

This manual provides essential instructions for the proper use, setup, and maintenance of your SVBONY SV407 2.1x42mm Astronomy Binoculars. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Image 1.1: The SVBONY SV407 2.1x42mm Astronomy Binoculars, designed for wide-angle stargazing.

2. Safety Information

WARNING:

- Do not look directly into the sun with these binoculars, as this can cause severe and permanent eye damage.
- Keep binoculars away from children unless under direct adult supervision.
- Store in a cool, dry place to prevent damage to optical components.

3. Package Contents

Verify that all items are present in your package:



Image 3.1: Illustration of the SVBONY SV407 package contents.

- 1x SV407 2.1x42 Super Wide Binoculars
- 1x Carrying EVA Case
- 1x Neck Strap
- 1x Hand Strap

- 1x Lens Covers (Objective and Eyepiece)
- 1x Lens Cleaning Cloth
- 1x User Manual

4. Product Overview

The SVBONY SV407 binoculars are designed for wide-angle observation, particularly suited for astronomy and theater viewing. Key features include:

- **FMC Coating:** Fully Multi-Coated optics ensure high light transmission for bright, clear, and sharp images.
- **Wide Angle:** A 26-degree field of view allows for observing entire constellations and expansive star fields.
- **Long Depth of Field:** Provides a broad focus range from approximately 1 meter to infinity, minimizing the need for constant refocusing.
- **Magnification:** 2.1x magnification enhances visibility of celestial objects and distant scenes.
- **Objective Lens:** 42mm objective lenses gather ample light for enhanced viewing in low-light conditions.
- **Eyepiece Focusing:** Individual eyepiece focusing for precise adjustment to each eye.
- **IPX6 Waterproof:** Designed to withstand water splashes and rain, offering protection against the elements.
- **2-inch Filter Thread:** Compatible with standard 2-inch astronomical filters for specialized viewing.
- **Tripod Mount:** Features a standard threaded interface for tripod attachment, providing stable viewing.



Image 4.1: The binoculars feature 42mm objective lenses and are constructed from high-quality CNC metal for durability.



Image 4.2: Demonstrates the expansive 26-degree field of view provided by the SV407 binoculars, allowing for observation of complete constellations.

5. Setup

5.1 Adjusting Interpupillary Distance (IPD)

The interpupillary distance is the distance between the centers of your pupils. To adjust:

1. Hold the binoculars up to your eyes.
2. Adjust the hinge between the two barrels until you see a single, clear circular field of view.
3. Ensure the image is comfortable for both eyes without any black edges or shadows.



Image 5.1: Adjust the binoculars to match your interpupillary distance, typically between 55-76mm, for a comfortable viewing experience.

5.2 Eyepiece Focusing

The SV407 binoculars feature individual eyepiece focusing. This allows for precise focus adjustment for each eye.

1. Look through the binoculars at a distant object (at least 1 meter away).
2. Individually rotate each eyepiece until the image appears sharp and clear for that eye.
3. Once set, the long depth of field design means frequent refocusing is generally not required for objects beyond 1 meter.

5.3 Attaching to a Tripod

For extended viewing sessions or increased stability, the SV407 binoculars can be mounted on a tripod.

1. Locate the standard threaded interface on the binoculars (usually near the central hinge).
2. Attach a compatible tripod adapter (not included) to this interface.
3. Mount the binoculars onto your tripod using the adapter.



Image 5.2: The binoculars can be attached to a tripod via a standard threaded interface for stable observation.

5.4 Attaching 2-inch Filters

The objective lenses are designed to accept standard 2-inch astronomical filters.

1. Carefully screw the 2-inch filter into the threads on the front of the objective lens.
2. Ensure the filter is securely attached but do not overtighten.

6. Operating Instructions

6.1 Stargazing

The SV407 binoculars are optimized for wide-field astronomical observations:

- Find a dark location away from light pollution.
- Hold the binoculars steady or use a tripod for prolonged viewing.
- Scan the night sky to observe constellations, star clusters, and the Milky Way. The 2.1x magnification and wide field of view will enhance the visibility of these objects beyond what is possible with the naked eye.

6.2 Terrestrial Viewing

While primarily designed for astronomy, these binoculars can also be used for terrestrial viewing, such as:

- Watching dramas in small to medium theaters.
- Art appreciation in exhibition halls.
- General scenery observation.

The 1-meter close focus distance allows for observation of nearby objects.

7. Maintenance

7.1 Cleaning Lenses

To maintain optical clarity:

- Use the provided lens cleaning cloth or a soft, lint-free cloth specifically designed for optics.
- Gently wipe the lens surfaces to remove dust or smudges.
- For stubborn marks, use a small amount of optical cleaning fluid on the cloth, not directly on the lens.
- Avoid touching the lens surfaces with your fingers.

7.2 Storage

When not in use:

- Place the lens covers on both the objective and eyepiece lenses.
- Store the binoculars in the provided EVA carrying case to protect them from dust, moisture, and impacts.
- Keep in a dry environment, away from extreme temperatures.

7.3 Waterproofing

The SV407 binoculars are IPX6 waterproof, meaning they are protected against powerful water jets. While they can withstand rain and splashes, they are not designed for submersion.



Image 7.1: The binoculars are IPX6 waterproof, offering protection against water splashes and rain.

8. Troubleshooting

- **Problem: Image is blurry or out of focus.**
  Solution: Ensure both eyepieces are individually focused correctly for your eyes. Adjust the interpupillary distance until a single, clear circular field of view is achieved.
- **Problem: Dark shadows or partial view.**
  Solution: Adjust the interpupillary distance (IPD) until the two fields of view merge into one complete circle. Ensure your eyes are properly aligned with the eyepieces.
- **Problem: Image appears dim.**
  Solution: Ensure lenses are clean and free of dust or smudges. For astronomical viewing, ensure you are in a dark environment away from light pollution.
- **Problem: Distortion at the edges of the view.**
  Note: Some edge distortion is characteristic of Galilean optics, especially with wide fields of view. This is generally minimal when properly focused and does not detract from the central viewing experience.

9. Specifications

Feature	Specification
Brand	SVBONY
Model Number	FAUF9356A
Magnification	2.1x
Objective Lens Diameter	42 mm
Field of View	26 degrees
Minimum Focusing Distance	1 meter
Waterproof Rating	IPX6
Product Dimensions	6.3 x 5.51 x 3.15 inches
Item Weight	13.2 ounces

10. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact SVBONY customer service directly. Contact details can typically be found on the manufacturer's official website or through your retailer.

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