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SVBONY SA401

Svbony SA401 APO 25-75x100 Spotting Scope User Manual

Model: SA401

1. Introduction

The Svbony SA401 APO 25-75x100 Spotting Scope is a high-performance optical instrument designed for detailed long-distance observation, birdwatching, and digiscoping. Featuring an Apochromatic (APO) objective lens with Extra-low Dispersion (ED) glass and Full Multi-Coating (FMC), it delivers clear, color-accurate images with reduced chromatic aberration. Its 100mm large aperture ensures excellent light gathering capabilities, providing bright views even in challenging light conditions. This manual provides essential information for the proper setup, operation, and maintenance of your spotting scope.

2. Package Contents

The following items are included in your Svbony SA401 APO 25-75x100 Spotting Scope package:

- Svbony SA401 APO Spotting Scope
- Eyepiece Lens Cover
- Objective Lens Cover
- Carrying Bag
- Lens Cleaning Cloth
- User Manual



Image: The complete package contents of the Svbony SA401 APO Spotting Scope.

3. Product Features

- **APO Objective Lens with Dual ED Glass**: Reduces chromatic aberration significantly, providing clear images with excellent color correction and realistic contrast.



Image: Visual comparison of APO objective lens performance versus standard lenses, highlighting superior color and clarity.

- **FMC (Fully Multi-Coated) Optics**: Enhances light transmission, reduces reflection loss and glare, ensuring superior color fidelity and brighter images.
- **Large 100mm Aperture**: Improves light gathering capacity, offering a wide and bright field of view for long-distance observation.



Image: A detailed view of the 100mm objective lens, emphasizing its large light-gathering capability.

- **Variable 25-75x Magnification**: Allows for a broad field of view at lower magnification and detailed observation at higher magnification.
- **Removable Eyepiece**: Provides flexibility for various observation needs and potential upgrades.



Image: The removable eyepiece, offering versatility for different viewing preferences.

- **Large Focus Wheel**: Designed for rapid, accurate, and comfortable manual focusing.



Image: The large, ergonomic focus wheel for smooth and precise adjustments.

- **Twist-up Eyecup**: Adjustable eyecup suitable for users with or without eyeglasses, helping to eliminate stray light.



Image: Illustration of the twist-up eyecup, designed for comfortable viewing with or without eyeglasses.

- **Standard 1/4-20 Threaded Interface**: Ensures easy and secure connection to standard tripods.

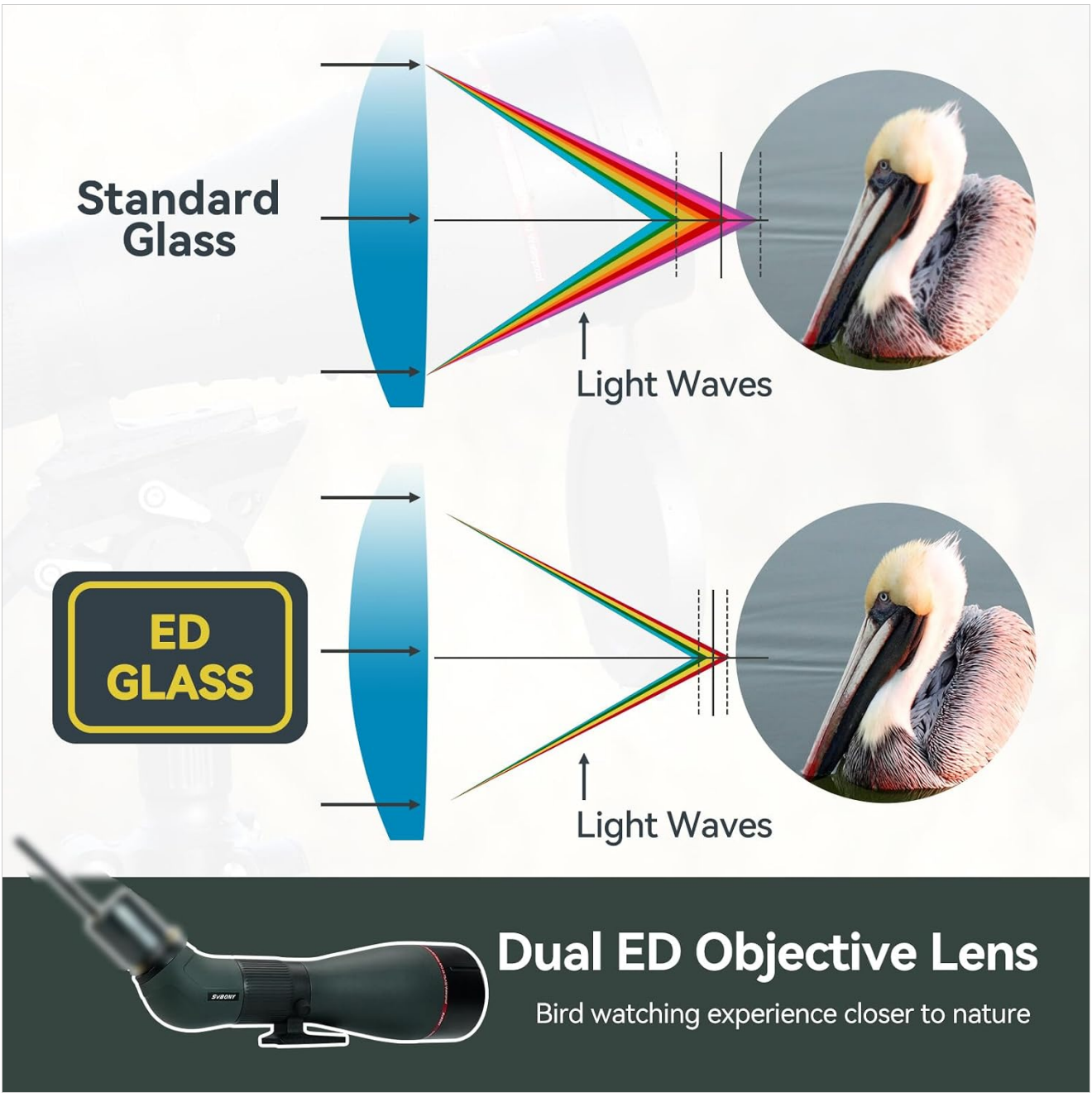


Image: The standard 1/4-20 threaded interface for stable tripod mounting.

- **IPX7 Waterproof and Anti-fog**: Protects the optics from moisture and internal fogging, making it suitable for use in various weather conditions.

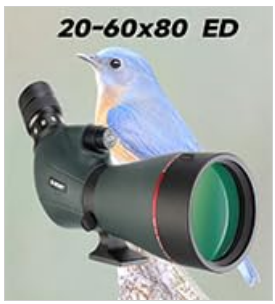


Image: The spotting scope demonstrating its IPX7 waterproof capability under splashing water.

4. Setup

4.1 Unpacking

Carefully remove all components from the packaging. Retain the packaging for future storage or transport.

4.2 Mounting on a Tripod

1. Locate the 1/4-20 threaded interface on the bottom of the spotting scope.
2. Align this interface with the mounting screw on your tripod head.
3. Securely fasten the spotting scope to the tripod by turning the mounting screw clockwise until tight. Ensure the scope is stable.

4.3 Attaching the Eyepiece

1. Remove the protective caps from both the eyepiece and the spotting scope's eyepiece port.
2. Gently insert the eyepiece into the port and secure it by rotating it clockwise until it is firmly in place.

5. Operating Instructions

5.1 Adjusting Magnification

Rotate the magnification ring on the eyepiece to select your desired magnification between 25x and 75x. Start with a lower magnification for a wider field of view, then increase for more detail.

5.2 Focusing

Look through the eyepiece and rotate the large focus wheel until the image appears sharp and clear.

5.3 Using the Twist-up Eyecup

- If you wear eyeglasses, twist the eyecup down to ensure a full field of view.
- If you do not wear eyeglasses, twist the eyecup up to block stray light and improve viewing comfort.

5.4 Digiscoping (with WIFI Camera SC001)

The SA401 spotting scope is compatible with the Svbony WIFI Camera SC001 for digiscoping. Attach the WIFI camera to the eyepiece using a compatible adapter (sold separately). Follow the instructions provided with the WIFI Camera SC001 for connecting to your smartphone or other devices and capturing images or videos.



Image: A user engaging in digiscoping, capturing images through the spotting scope with a smartphone.

6. Maintenance

6.1 Cleaning Lenses

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 applied to the cloth, not directly to the lens.

6.2 Cleaning Body

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

6.3 Storage

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

6.4 Waterproof Care

While the scope is IPX7 waterproof, avoid prolonged submersion. After exposure to water, wipe the scope dry with a soft cloth.

7. Troubleshooting

- **Image is blurry or out of focus**:
  - Ensure the focus wheel is properly adjusted. Rotate it slowly until the image is sharp.
  - Check that the eyepiece is fully inserted and secured.
  - Verify that the objective lens and eyepiece are clean.
- **Dark or dim image**:
  - Ensure the objective lens cap is removed.
  - Check for sufficient ambient light.
  - Confirm that the magnification is not set too high for the available light conditions.
- **Chromatic aberration (color fringing) is visible**:
  - While the APO ED lens significantly reduces chromatic aberration, some minimal fringing might be visible under extreme contrast conditions. This is normal for optical instruments.
  - Ensure the focus is precise.
- **Stiff zoom or focus ring**:
  - New scopes may have stiff rings. With regular use, they should loosen up. Do not force the rings.

8. Specifications

Feature	Specification
Brand	SVBONY
Model Name	SA401
Magnification	25-75x
Objective Lens Diameter	100 mm
Optical Tube Length	100 mm
Eyepiece Lens Description	FMC
Lens Coating	FMC (Fully Multi-Coated)
Focus Type	Manual Focus
Field of View	23.5 Meters (at 1000m)
Telescope Mount Description	Altazimuth Mount
Finder	Angled
Product Dimensions (LxWxH)	45.7P x 11.7l x 15.3H cm
Item Weight	5940 Grams

Special Features	APO Apochromatic, Dual ED Optical Glass, Wifi Camera Compatible
Power Source	Rechargeable Battery (for compatible accessories like WIFI camera)
Compatible Devices	Camera
Country of Origin	China

9. Warranty and Support

9.1 Product Warranty

SVBONY provides a lifetime warranty for spotting scopes, monoculars, binoculars, and microscopes. Additionally, there is a 30-day no-reason return policy.

9.2 Post-Warranty Service

Even beyond the warranty period, maintenance services are offered. Buyers are responsible for associated costs.

9.3 Contact Support

For any warranty claims, maintenance requests, or support inquiries, please contact SVBONY directly through Amazon. Responses are typically provided within 12 hours.

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