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SVBONY SV406

Svbony SV406 25-75x100 Spotting Scope User Manual

1. Introduction

Thank you for choosing the Svbony SV406 25-75x100 Spotting Scope. This manual provides essential information for the proper setup, operation, and maintenance of your device. The SV406 is designed for high-performance observation, featuring a powerful 25x-75x magnification range, a large 100mm objective lens for bright images, and a robust waterproof and fog-proof construction. It is ideal for birdwatching, wildlife observation, target shooting, and landscape viewing.



A full view of the Svbony SV406 spotting scope, showing its dark green body, large objective lens with a cap, and the eyepiece.

2. Product Components

The Svbony SV406 spotting scope includes the following main components:

- **Objective Lens:** The large front lens that gathers light.
- **Eyepiece:** The part you look through, with adjustable magnification.
- **Focus Knobs:** Dual-speed knobs for precise focusing (coarse and fine).
- **Tripod Mount:** A rotating base with a UNC1/4-20 threaded interface for tripod attachment.

- **Extendable Sunshade:** Integrated hood to reduce glare and protect the objective lens.
- **Body Armor:** Rubberized coating for durability and grip.
- **Lens Caps:** Protective covers for the objective lens and eyepiece.



An image displaying the spotting scope along with its complete set of accessories, such as the protective carrying case, lens covers, and cleaning cloth.

3. Setup

1. **Unpacking:** Carefully remove the spotting scope and all accessories from its packaging. Ensure all components listed in Section 2 are present.
2. **Tripod Mounting:**
   For stable viewing, it is recommended to mount the spotting scope on a sturdy tripod. The SV406 features a standard UNC1/4-20 threaded interface on its rotating tripod mount. Align the scope's mount with your tripod's quick-release plate or screw, and secure it firmly. The rotatable mount allows you to adjust the eyepiece to an optimal viewing angle without moving the entire tripod.



A close-up of the UNC1/4-20 threaded base, indicating its compatibility with various tripods for stable observation.

3. **Eyepiece Adjustment:**
   Remove the eyepiece cap. Adjust the eyecup by twisting or extending it to achieve a comfortable viewing distance. If you wear eyeglasses, you may prefer to keep the eyecup retracted to see the full field of view. If you do not wear eyeglasses, extend the eyecup for optimal comfort and to block stray light.

Two views of the eyepiece, demonstrating how the adjustable eyecups can be set for comfortable viewing, whether the user wears eyeglasses or not.

4. Operation

1. **Magnification Adjustment:**
   The SV406 offers a variable magnification from 25x to 75x. To change the magnification, rotate the eyepiece barrel. Start with a lower magnification (25x) to locate your subject and achieve a wider field of view, then gradually increase to higher magnifications (up to 75x) for more detailed observation.



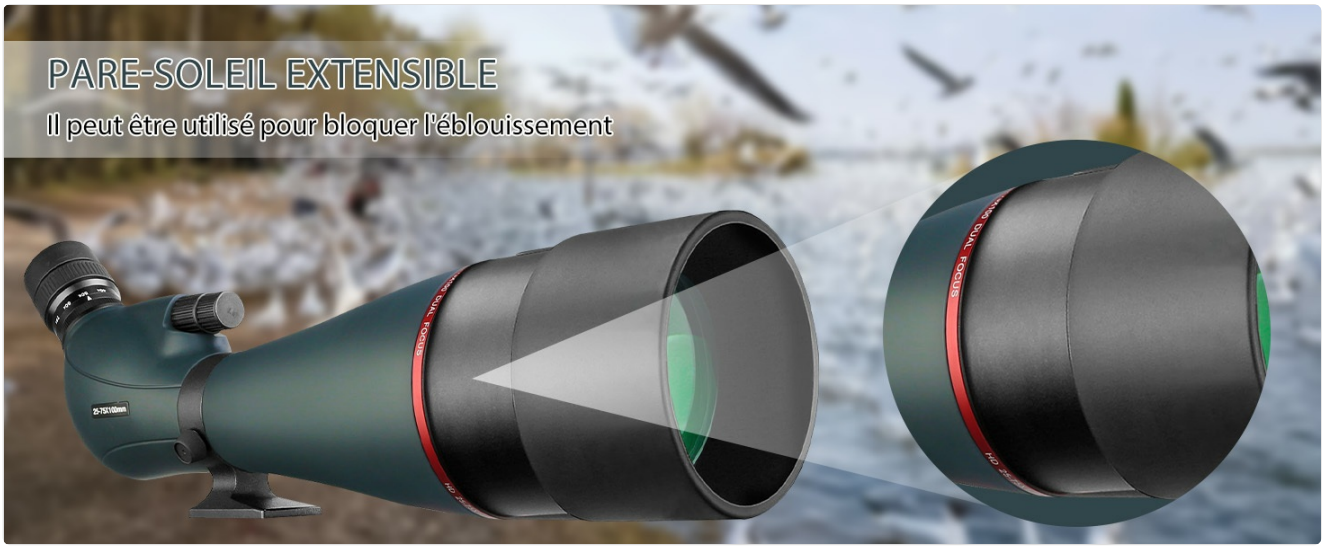
This image demonstrates the variable 25x to 75x magnification range, showing how the view of a deer becomes progressively closer and more detailed at higher magnifications.

2. **Focusing:**
   The spotting scope features a dual-speed focus system for precise image clarity. Use the larger, coarse focus knob for quick, approximate adjustments to bring the image into general focus. Then, use the smaller, fine focus knob for minute adjustments to achieve critical sharpness and detail.



A graphic explaining the dual-speed focus system, with arrows indicating the coarse and fine adjustment knobs for precise image clarity.

3. **Sunshade Extension:**
   To minimize glare from direct sunlight or bright ambient light, extend the built-in sunshade by pulling it forward from the objective lens housing. This also provides additional protection for the objective lens.



An image showing the objective lens with its extendable sunshade, designed to reduce glare and protect the lens from elements.

4. **Environmental Use:**
   The SV406 is IPX7 waterproof and fog-proof, allowing for reliable performance in various weather conditions. Its nitrogen-purged and O-ring sealed construction prevents internal fogging and water ingress. While designed for outdoor use, avoid prolonged submersion.



The spotting scope is depicted with water droplets, illustrating its IPX7 waterproof and fog-proof construction for reliable use in challenging weather.

5. Maintenance

- **Cleaning Lenses:** Use a soft, lint-free microfiber cloth specifically designed for optical lenses. For stubborn smudges, apply a small amount of lens cleaning fluid to the cloth, not directly to the lens. Gently wipe in a circular motion. Avoid using abrasive materials or excessive force, which can scratch the lens coatings.
- **Cleaning Body:** Wipe the body of the spotting scope with a soft, damp cloth. For more persistent dirt, a mild soap solution can be used, followed by wiping with a clean, damp cloth. Ensure the scope is dry before storage.
- **Storage:** When not in use, store the spotting scope in its protective carrying case with both objective and eyepiece lens caps securely in place. Store in a cool, dry environment, away from direct sunlight and extreme temperatures.



A hand holding the spotting scope within its olive green protective carrying case, equipped with a shoulder strap for portability.

6. Troubleshooting

- **Blurred Image:**
  - Ensure the focus knobs (both coarse and fine) are properly adjusted.
  - Check if the eyepiece magnification is set correctly for your viewing distance.
  - Verify that the objective lens and eyepiece are clean and free from smudges or dust.
- **Dark Image:**
  - Confirm that the objective lens cap has been removed.
  - Ensure sufficient ambient light for observation.
  - Lower the magnification setting, as higher magnifications can reduce image brightness.
- **External Fogging:**
  - While the scope is internally fog-proof, external condensation can occur when moving between environments

with significant temperature differences. Allow the scope to acclimate to the new temperature, or gently wipe the exterior lenses with a clean, dry cloth.

7. Specifications

Feature	Specification
Brand	SVBONY
Model Name	SV406
Model Number	EUF9355C
Magnification	25x-75x
Objective Lens Diameter	100 Millimeters
Eyepiece Lens Description	Prism (Porro Prism with silver reflective coating)
Focus Type	Manual Dual Focus
Waterproof Level	IPX7 (Impermeable)
Fog-proof	Yes (Nitrogen-purged)
Dimensions (L x W x H)	11.7 x 18.6 x 47 centimeters
Item Weight	2070 Grams
Compatible Devices	Camera, Tripod
Telescope Mount Description	Azimuthal Mount
Finderscope	Reflex



An image highlighting the 100mm objective lens of the spotting scope, emphasizing its light-gathering capability and performance in low light conditions.

8. Warranty and Support

Svbony offers a lifetime warranty for spotting scopes, monoculars, binoculars, and microscopes. Additionally, a 30-day return policy is provided without requiring a specific reason.
Beyond the warranty period, maintenance services are still available, though buyers will be responsible for associated costs.
For any inquiries, technical assistance, or warranty claims, please contact Svbony customer support through Amazon. We aim to respond to all queries within 12 hours.

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