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› SVBONY 6mm 68-Degree Ultra Wide Angle Telescope Eyepiece (Model FUSF9152A) Instruction Manual

SVBONY FUSF9152A

SVBONY 6mm 68-Degree Ultra Wide Angle Telescope Eyepiece (Model FUSF9152A) Instruction Manual

1. OVERVIEW

This manual provides instructions for the SVBONY 6mm 68-Degree Ultra Wide Angle Telescope Eyepiece, Model FUSF9152A. This high-definition, fully multi-coated eyepiece is designed to enhance your astronomical observations, particularly for planetary and lunar viewing. It features a wide field of view and is compatible with standard 1.25-inch telescope focusers.

2. KEY FEATURES

- **68-Degree Wide Angle Design:** Provides an expansive field of view, facilitating quick target acquisition and tracking of celestial objects. This design minimizes the need for frequent telescope adjustments.
- **6mm Focal Length:** Offers high magnification, allowing for detailed observation of lunar surface craters, the rings of Saturn, and features on Jupiter.
- **Fully Multi-Coated (FMC) Optics:** Improves light transmission through the lens system and reduces internal reflections, resulting in clearer and brighter images.
- **Long Eye Relief (17mm):** Designed for comfortable long-term visual observation, including for users wearing eyeglasses.
- **1.25-inch Barrel Diameter:** Ensures compatibility with most standard 1.25-inch telescopes, Barlow lenses, and zenith mirrors. The M26.5*0.6 thread supports the installation of standard 1.25-inch filters.
- **Durable Construction:** Features an all-metal body with a black anodized aluminum shell, making it wear-resistant and drop-resistant for outdoor use. Includes a handheld rubber grip ring and a folding eyecup for enhanced comfort and secure handling.
- **Dust Protection:** Supplied with two dust covers for easy carrying and storage, protecting the optical surfaces.

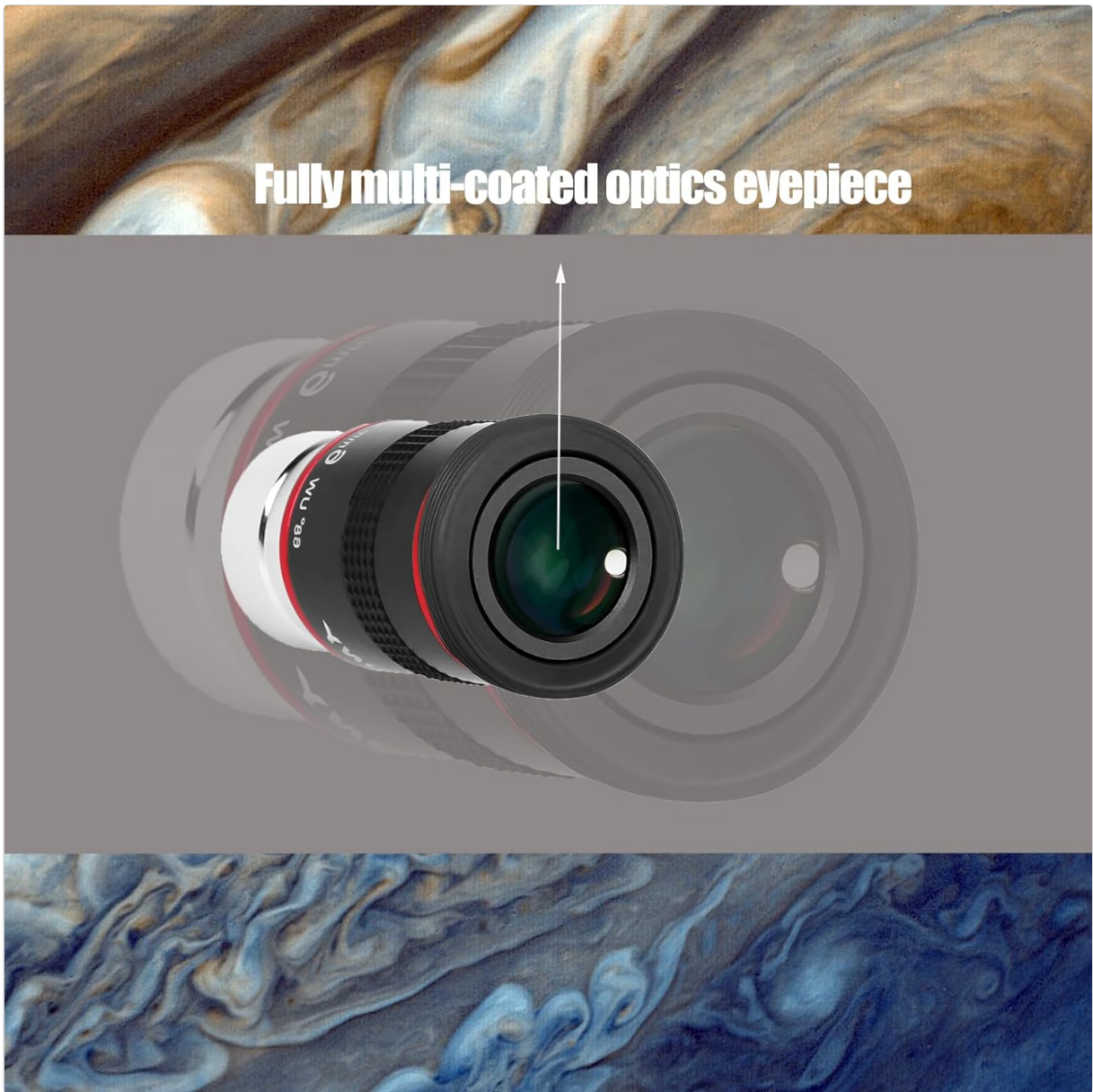


Figure 2.1: Illustration of the 68-degree wide field of view provided by the eyepiece.

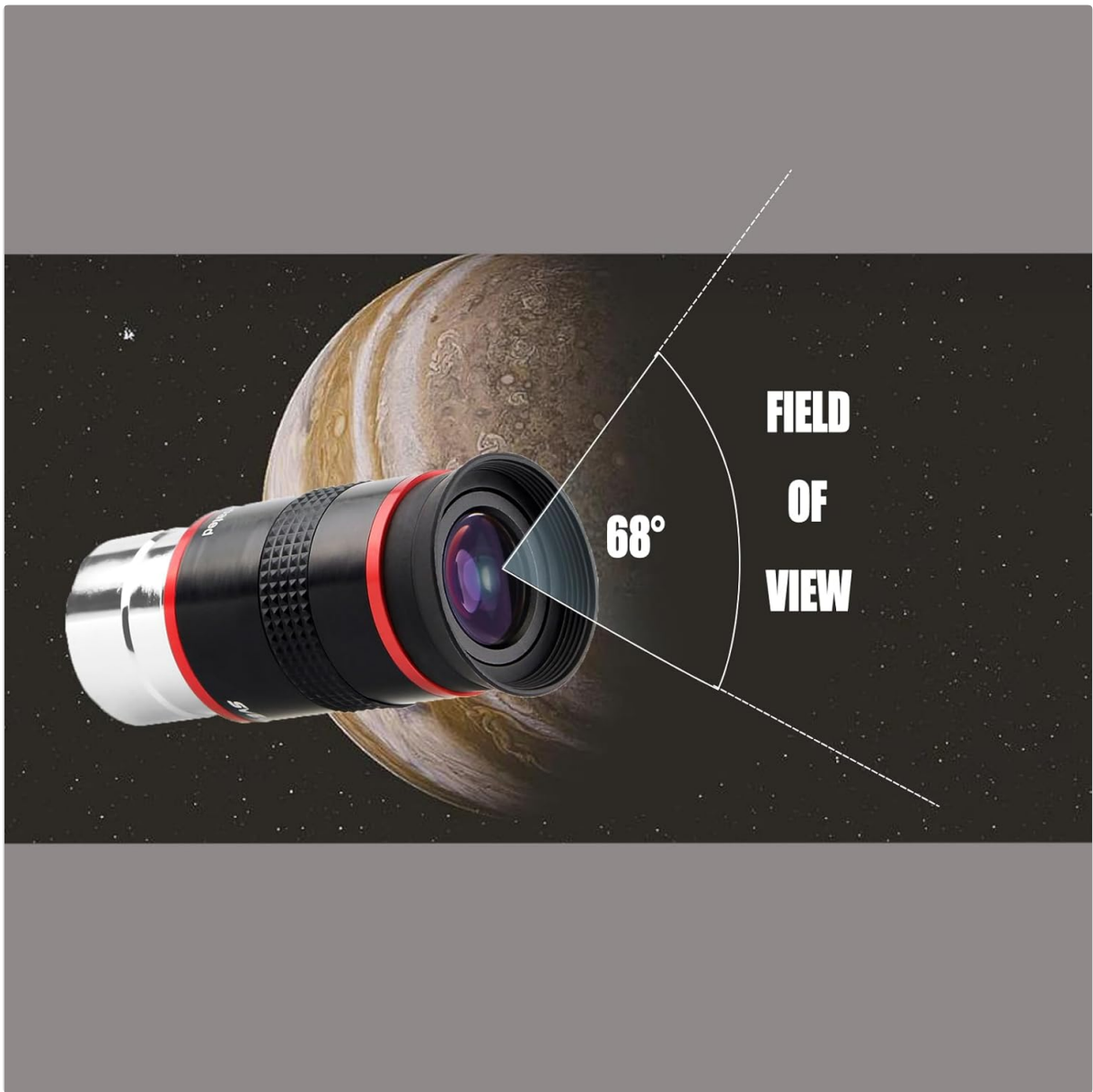


Figure 2.2: The fully multi-coated optical lenses enhance image brightness and clarity.



Figure 2.3: The 1.25-inch barrel with M26.5*0.6 thread for filter attachment.

Matting process



Figure 2.4: The interior features a matting process to reduce internal reflections.

All-metal structure

Black anodized aluminum shell



Figure 2.5: The eyepiece is constructed from durable all-metal materials.

Fold down soft rubber eye guard



Figure 2.6: The fold-down soft rubber eyecup provides comfort and protects the eye.



Figure 2.7: The eyepiece utilizes a 5-element, 3-group structural design for optimal optical performance.



Figure 2.8: The eyepiece comes with two dust-proof lens caps for protection.

3. SETUP

1. **Unpack the Eyepiece:** Carefully remove the eyepiece from its packaging. Ensure all dust caps are in place during handling.
2. **Remove Dust Caps:** Before use, remove both the top and bottom dust caps from the eyepiece.
3. **Insert into Focuser:** Slide the chrome barrel of the eyepiece into the 1.25-inch focuser of your telescope.
4. **Secure the Eyepiece:** Tighten the thumbscrew on the telescope's focuser to securely hold the eyepiece in place. Do not overtighten.

4. OPERATION

1. **Adjust Focus:** Use your telescope's focuser knob to bring the celestial object into sharp focus.
2. **Adjust Eyecup:** For comfortable viewing, especially for non-eyeglass wearers, extend the folding rubber eyecup. If you wear eyeglasses, you may prefer to keep the eyecup folded down to utilize the full 17mm eye relief.
3. **Observe:** Position your eye close to the eyecup and observe the celestial object. The 68-degree wide angle will provide an immersive view.

4. **Using Filters:** If desired, screw a compatible 1.25-inch astronomical filter into the M26.5*0.6 threaded barrel of the eyepiece before inserting it into the focuser.

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Video 4.1: Demonstration of the SVBONY 6mm eyepiece used with an SV550 80mm telescope for lunar observation.

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Video 4.2: Visual overview of the 6mm 68-degree ultra wide angle telescope eyepiece.

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Video 4.3: Detailed presentation of the SVBONY Fully Multi-Coated Wide Angle Telescope Eyepiece.

5. MAINTENANCE

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, use a small amount of optical cleaning fluid applied to the cloth, not directly to the lens. Avoid touching the lens surfaces with bare fingers.
- **Storage:** Always replace the dust caps after use. Store the eyepiece in a clean, dry environment, preferably in its original case or a padded container, to protect it from dust, moisture, and impacts.
- **Avoid Extreme Temperatures:** Do not expose the eyepiece to extreme temperatures or rapid temperature changes, as this can affect the optical coatings and internal components.

6. TROUBLESHOOTING

- **Blurry Image:** Ensure the telescope's focuser is properly adjusted. Check if the eyepiece lenses are clean and free from condensation. Verify that the telescope's primary and secondary mirrors/lenses are collimated (aligned) correctly.
- **Dust on Lenses:** Use a blower brush or compressed air (specifically for optics) to gently remove dust particles. Avoid wiping dry lenses, as this can scratch the coatings.
- **Eyepiece Not Fitting:** Confirm that your telescope's focuser is a standard 1.25-inch size. Ensure the thumbscrew on the focuser is loosened sufficiently before inserting the eyepiece.
- **Poor Image Quality:** This can be caused by atmospheric conditions (seeing), light pollution, or improper telescope collimation. Allow your telescope to cool down to ambient temperature for optimal performance.

7. SPECIFICATIONS

Feature	Specification
Brand	SVBONY
Model Name	FUSF9152A
Focal Length	6 Millimeters
Field Of View	68 Degrees
Eye Piece Lens Description	Plossl
Coating	Fully Multi-Coated
Eye Relief	17mm

Feature	Specification
Barrel Diameter	1.25 inches
Filter Thread	M26.5*0.6
Material	All Metal (Black Anodized Aluminum Shell)
Item Weight	5.6 Ounces
Product Dimensions (D x W x H)	3.51"D x 1.95"W x 1.95"H
UPC	609378746444

8. WARRANTY AND SUPPORT

SVBONY provides a 1-year warranty for this telescope accessory. Additionally, a 30-day no-reason return policy is offered. For service beyond the warranty period, maintenance services are available, with buyers responsible for associated costs.

For any inquiries or support needs, please contact SVBONY Direct through Amazon. They aim to respond within 12 hours.

Seller: SVBONY Direct

Seller ID: A1KTPYXLG45C22

Contact: [Contact Seller on Amazon](#)