Visionking VS70350

Visionking 70mm Refractor Telescope User Manual

Model: VS70350

Introduction

This manual provides detailed instructions for the assembly, operation, and maintenance of your Visionking 70mm Refractor Monocular Astronomical Telescope. This compact and versatile telescope is designed for both astronomical observations and terrestrial viewing, offering bright and clear images.

With a 70mm objective lens diameter and fully multi-coated optics, it gathers significantly more light than smaller telescopes, ensuring clear views even in low-light conditions. The integrated erecting lens provides a correctly oriented image, making it suitable for observing both celestial bodies and terrestrial landscapes.

Package Contents

Please verify that all the following components are included in your package:



Figure 1: All components included in the Visionking 70mm Refractor Telescope package. This includes the main telescope tube, a sturdy tripod, multiple eyepieces for varying magnifications, a small cleaning cloth, and a black carrying bag for portability.

- Visionking 70mm Refractor Telescope Tube
- Adjustable Aluminum Tripod
- Multiple Eyepieces (e.g., H20mm, H6mm)
- Diagonal Prism (Erecting Lens)
- Accessory Tray
- Cleaning Cloth
- Carrying Bag
- User Manual (this document)

Product Overview

Familiarize yourself with the main parts of your telescope before assembly.



Figure 2: The Visionking 70mm Refractor Telescope fully assembled on its tripod. The telescope features a white main tube with black accents, including the objective lens housing and the eyepiece holder.



Figure 3: Detailed views of key telescope components. This collage shows the 'Visionking' branding on the tube, the focus adjustment wheel, a built-in compass near the eyepiece, the eyepiece insertion point with an orange arrow indicating rotation for adjustment, and a view into the objective lens.

- **Objective Lens:** The large lens at the front of the telescope that gathers light.
- **Telescope Tube:** The main body of the telescope.
- **Focus Wheel:** Used to adjust the clarity of the image.
- **Eyepiece:** The small lens through which you view the image. Different eyepieces provide different magnifications.
- **Diagonal Prism (Erecting Lens):** Redirects the light path and corrects the image orientation.
- **Tripod:** Provides a stable base for the telescope.
- **Accessory Tray:** Attaches to the tripod for holding eyepieces and other small accessories.

Setup

1. **Unpack Components:** Carefully remove all components from the packaging and lay them out on a clean, flat surface.
2. **Set Up the Tripod:**
    - Spread the tripod legs outwards until they are fully extended and stable.
    - Adjust the height of the tripod legs to your desired viewing level by loosening the leg locks, extending the legs, and then tightening the locks.
    - Attach the accessory tray to the center brace of the tripod.
3. **Mount the Telescope Tube:**
    - Locate the mounting screw on the tripod head.
    - Align the mounting hole on the bottom of the telescope tube with the tripod's mounting screw.
    - Securely tighten the screw to attach the telescope to the tripod. Do not overtighten.
4. **Insert the Diagonal Prism:**
    - Loosen the small thumbscrew on the focuser tube (the part where the eyepiece goes).
    - Insert the chrome barrel of the diagonal prism into the focuser tube.
    - Tighten the thumbscrew to secure the diagonal prism.
5. **Insert an Eyepiece:**
    - Loosen the thumbscrew on the diagonal prism.
    - Insert the desired eyepiece (e.g., H20mm for lower magnification, H6mm for higher magnification) into the diagonal prism.
    - Tighten the thumbscrew to secure the eyepiece.

Operating Instructions

1. **Choosing an Eyepiece:**
    - Start with the lowest power eyepiece (the one with the largest millimeter number, e.g., H20mm). This provides the widest field of view and makes it easier to locate objects.
    - Once an object is centered and focused, you can switch to a higher power eyepiece for more magnification.
2. **Locating an Object:**
    - Point the telescope roughly towards the object you wish to observe.
    - Look through the eyepiece and make small adjustments to the telescope's position until the object appears in the field of view.
3. **Focusing:**
    - Slowly turn the focus wheel until the image becomes sharp and clear.
    - Adjust the focus as needed, especially when changing eyepieces or if the temperature changes.
4. **Terrestrial Viewing:**

- This telescope is equipped with an erecting lens, which ensures that images appear right-side up and correctly oriented, making it ideal for observing landscapes, wildlife, or other terrestrial targets.

5. **Astronomical Viewing:**
    - For best astronomical viewing, choose a dark location away from city lights.
    - Allow your eyes to adjust to the darkness for at least 20 minutes before observing.
    - Start with wide-field views to locate celestial objects, then zoom in with higher power eyepieces.

Maintenance and Care

- **Cleaning Lenses:**
    - Use the provided cleaning cloth or a soft, lint-free cloth specifically designed for optical lenses.
    - Gently wipe the lens surfaces. For stubborn smudges, use a small amount of optical lens cleaning fluid applied to the cloth, not directly to the lens.
    - Avoid touching the lens surfaces with your fingers.
- **Storage:**
    - When not in use, store the telescope in its carrying bag in a cool, dry place, away from direct sunlight and extreme temperatures.
    - Keep dust caps on the objective lens and eyepiece holder to prevent dust accumulation.
- **Handling:**
    - Always handle the telescope with care to avoid dropping or impacting it.
    - Do not disassemble the optical components, as this can void the warranty and damage the precision optics.
- **Environmental Considerations:**
    - Avoid exposing the telescope to sudden temperature changes, which can cause condensation on the lenses. If condensation occurs, allow it to evaporate naturally or gently wipe with a clean, dry optical cloth.
    - Never point the telescope directly at the sun or near the sun without proper solar filters. Doing so can cause severe eye damage.

Troubleshooting

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Incorrect focus setting.	Adjust the focus wheel slowly until the image is sharp.

Problem	Possible Cause	Solution
No image visible.	Eyepiece not inserted correctly; dust caps still on; object not in field of view.	Ensure eyepiece is fully inserted and secured. Remove all dust caps. Re-aim the telescope using the lowest power eyepiece.
Image is upside down or reversed.	Diagonal prism (erecting lens) not used or inserted incorrectly.	Ensure the diagonal prism is correctly inserted between the focuser and the eyepiece. This model includes an erecting lens for correct image orientation.
Image is dim.	Light pollution; high magnification in poor conditions; dirty lenses.	Move to a darker viewing location. Use a lower power eyepiece. Clean the objective lens and eyepiece.
Telescope is unstable.	Tripod legs not fully extended or locked; telescope not securely mounted.	Ensure tripod legs are fully extended and all locks are tightened. Verify the telescope is securely attached to the tripod.

Specifications

Feature	Detail
Model Number	VS70350
Objective Lens Diameter	70 mm
Focal Length	350 mm
Magnification Range	14x to 120x (depending on eyepiece)
Lens Coating	Fully Multi-Coated
Focus Type	Manual Focus
Finderscope	Reflex
Field of View	3.14 Degrees
Item Weight	9 ounces (approx. 255 grams)

Warranty Information

Visionking products are manufactured to high-quality standards and are warranted against defects in materials and workmanship for a period of one (1) year from the original date of purchase. This warranty does not cover damage

caused by misuse, abuse, unauthorized modification, or normal wear and tear.

Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, please refer to the official Visionking website or contact customer support.

Customer Support

If you encounter any issues or have questions regarding your Visionking 70mm Refractor Telescope that are not addressed in this manual, please contact our customer support team.

For the most up-to-date contact information, please visit the official Visionking website or the retailer's support page where you purchased the product.

When contacting support, please have your product model number (VS70350) and purchase details ready to assist us in providing efficient service.

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