Visionking VS50350CF

Visionking 350x50 Refractor Telescope Instruction Manual

Model: VS50350CF

Introduction

This Visionking 350x50 refractor telescope is a compact and versatile optical instrument designed for both astronomical observations and terrestrial use as a powerful spotting scope. Featuring a 50mm objective lens diameter and fully multi-coated optics, it delivers clear images even in low lighting conditions. This manual provides essential information for the safe and effective use of your telescope.

Important Safety Information

- **Never look directly at the sun through your telescope or its finderscope without a professionally manufactured solar filter.** Doing so can cause immediate and irreversible eye damage, including blindness.
- Do not leave the telescope unattended in direct sunlight. The concentrated sunlight can cause damage to the telescope or surrounding objects.
- Handle the telescope and its components with care to prevent damage to optical surfaces and mechanical parts.
- Keep the telescope away from children without adult supervision.
- Store the telescope in a dry, dust-free environment when not in use.

Package Contents

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

- Telescope Optical Tube (Main Body)
- Adjustable Tripod
- Eyepieces (e.g., K9mm, K25mm)
- Barlow Lens (if included)
- Finderscope with Bracket
- Diagonal Mirror (Star Diagonal)
- Accessory Tray (if included)



Image: All components of the Visionking 350x50 Refractor Telescope laid out, including the main optical tube, tripod, various eyepieces, and the finderscope assembly.

Setup Guide

Follow these steps to assemble your Visionking 350x50 Refractor Telescope:

1. Assemble the Tripod

1. Unfold the tripod legs and spread them to their full extent.
2. Adjust the leg height to a comfortable viewing level, ensuring the tripod is stable on a flat surface.
3. Secure the leg locks.

2. Mount the Telescope Optical Tube

1. Locate the mounting screw on the tripod head.
2. Align the mounting hole on the bottom of the telescope optical tube with the tripod's mounting screw.
3. Carefully screw the telescope onto the tripod until it is securely fastened. Do not overtighten.

3. Attach the Finderscope

1. Slide the finderscope into its bracket on the main telescope tube.
2. Tighten the small screws on the bracket to hold the finderscope firmly in place.
3. *Note: The finderscope will need to be aligned with the main telescope later.*

4. Insert an Eyepiece

1. Remove the dust cap from the focuser tube at the back of the telescope.
2. Insert the diagonal mirror into the focuser tube and secure it with the thumbscrew.
3. Insert the desired eyepiece (e.g., K25mm for lower magnification and wider field of view, K9mm for higher magnification) into the diagonal mirror and secure it with the thumbscrew.
4. If using a Barlow lens, insert it into the diagonal mirror first, then insert the eyepiece into the Barlow lens.



Image: The Visionking 350x50 Refractor Telescope fully assembled on its tripod, ready for use.



Image: A side view of the assembled Visionking 350x50 Refractor Telescope, showing the optical tube, finderscope, and tripod.

Operating Your Telescope

1. Aligning the Finderscope

Before observing, the finderscope must be aligned with the main telescope. This is best done during the day:

1. Point the main telescope at a distant, stationary object (e.g., a telephone pole or a distant tree) and center it in the main telescope's eyepiece.
2. Look through the finderscope. Use the adjustment screws on the finderscope bracket to move the finderscope until the

same object is centered in its crosshairs.

3. Check the alignment again through the main telescope's eyepiece and fine-tune as necessary.

2. Focusing

Once an object is in view, turn the focus knob(s) on the focuser tube slowly until the image appears sharp and clear. For astronomical objects, slight adjustments may be needed as the object moves across the sky.

3. Changing Magnification

To change magnification, simply swap eyepieces. A lower focal length eyepiece (e.g., K9mm) provides higher magnification, while a higher focal length eyepiece (e.g., K25mm) provides lower magnification and a wider field of view. The Barlow lens, if used, will multiply the magnification of any eyepiece inserted into it.

4. Terrestrial Observation

For terrestrial viewing, ensure your telescope is equipped with an erect image diagonal or prism to correct the inverted image. Point the telescope at your desired land object, use the finderscope to center it, and then focus using the main focuser.

5. Astronomical Observation

For astronomical viewing, choose a dark location away from city lights. Start with the lowest magnification eyepiece (e.g., K25mm) to locate celestial objects. Once an object is centered, you can switch to a higher magnification eyepiece for more detailed views. Remember that celestial objects appear to move across the sky due to Earth's rotation, requiring occasional adjustments to keep them in view.

Care and Maintenance

- **Cleaning Lenses:** Use a soft, clean brush to remove loose dust. For smudges or fingerprints, use a specialized optical cleaning solution and a microfiber cloth designed for optics. Apply solution to the cloth, not directly to the lens. Avoid touching optical surfaces with your fingers.
- **Cleaning the Telescope Body:** Wipe the metal and plastic parts with a soft, damp cloth. Avoid using harsh chemicals.
- **Storage:** Always replace dust caps on the objective lens and eyepiece when not in use. Store the telescope in its original packaging or a protective case in a cool, dry, dust-free environment. Avoid extreme temperatures and humidity.
- **Transportation:** When transporting the telescope, ensure all components are securely packed to prevent movement and potential damage.

Troubleshooting

- **Image is blurry:** Adjust the focus knob slowly. Ensure the eyepiece is fully inserted and secured. Check for condensation on lenses.
- **Cannot see anything:** Ensure dust caps are removed from both the objective lens and the eyepiece. Check that the finderscope is aligned with the main telescope. Make sure you are observing in a sufficiently dark area for astronomical objects.
- **Image is upside down or reversed:** This is normal for astronomical telescopes. For terrestrial viewing, you will need an erect image diagonal or prism (often sold separately) to correct the image orientation.
- **Difficulty locating objects:** Start with the lowest magnification eyepiece (highest focal length) for a wider field of view. Ensure your finderscope is properly aligned.
- **Wobbly image:** Ensure the tripod is fully extended and stable on a firm surface. Tighten all mounting screws for the telescope and eyepiece. Avoid touching the telescope during observation.

Specifications

Feature	Specification
Model Number	VS50350CF
Objective Lens Diameter	50 Millimeters
Focal Length	350 mm
Magnification Range	14x to 120x
Eyepiece Lens Description	Barlow (implies compatibility/inclusion)
Focus Type	Manual Focus
Finderscope	Reflex
Exit Pupil Diameter	0.42 Millimeters
Item Weight	2 kg (2000 Grams)
Manufacturer	Visionking Optical

Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Visionking customer service directly through their official website or your retailer.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

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