

Visionking CA2

Visionking 1.25-inch Erecting Prism Instruction Manual

Model: CA2

1. INTRODUCTION

The Visionking 1.25-inch Erecting Prism is an optical accessory designed to correct the inverted image produced by Newtonian reflector astronomical telescopes. This prism allows for terrestrial viewing by presenting an upright and correctly oriented image. Additionally, it provides a 1.5X magnification factor, enhancing the viewing experience.

2. PRODUCT FEATURES

- **Image Rectification:** Corrects the upside-down image typical of Newtonian reflector telescopes, making them suitable for observing terrestrial objects.
- **Magnification:** Provides a 1.5X magnification, functioning similarly to a Barlow lens to increase the effective focal length of your telescope.
- **Wide Compatibility:** Designed for use with all standard 1.25-inch eyepieces. It also features an M42x0.75mm thread, allowing for connection with compatible DSLR cameras for astrophotography.
- **Durable Construction:** Features an all-metal aluminum alloy lens barrel for robust performance and longevity.
- **Optical Quality:** Equipped with multi-coated, apochromatic lenses to ensure clear and sharp images with minimal chromatic aberration.

3. SETUP AND INSTALLATION

Follow these steps to properly install the Visionking 1.25-inch Erecting Prism with your Newtonian reflector telescope:

1. **Prepare Your Telescope:** Ensure your Newtonian reflector telescope is set up on a stable surface or mount.
2. **Insert the Prism:** Carefully insert the barrel of the Visionking Erecting Prism into your telescope's 1.25-inch focuser or diagonal.

3. **Secure the Prism:** Tighten the thumbscrew(s) on the focuser or diagonal to gently secure the erecting prism in place. Do not overtighten.
4. **Insert Eyepiece:** Insert your desired 1.25-inch eyepiece into the top opening of the erecting prism.
5. **Secure Eyepiece:** Gently tighten the thumbscrew(s) on the erecting prism to hold the eyepiece securely.



Figure 1: The Visionking 1.25-inch Erecting Prism. This image shows the overall design of the prism, ready for insertion into a telescope focuser.



Figure 2: The erecting prism being held, illustrating its size and connection points for a 1.25-inch telescope eyepiece or DSLR camera.

4. OPERATION

Once the erecting prism and eyepiece are installed:

1. **Aim Your Telescope:** Point your telescope towards the desired terrestrial object.
2. **Adjust Focus:** Use your telescope's focus wheels to achieve a clear and sharp image. The erecting prism will provide an upright and correctly oriented view, along with 1.5X magnification.

3. **DSLR Camera Connection:** If using a DSLR camera, attach it to the M42x0.75mm thread on the prism (requires a compatible T-ring for your camera model, sold separately). Adjust camera settings and focus as needed for photography.



Figure 3: A close-up view of the multi-coated lens within the erecting prism, designed for enhanced image clarity.

5. MAINTENANCE

Proper care will ensure the longevity and optimal performance of your erecting prism:

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, a small amount of optical cleaning fluid can be applied to the cloth, not directly to the lens.
- **Dust Protection:** Always keep the protective dust caps on both ends of the prism when not in use to prevent dust and debris accumulation.
- **Storage:** Store the prism in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Handling:** Avoid touching the optical surfaces with your fingers. Handle the prism by its metal barrel.



Figure 4: The Visionking erecting prism shown with its protective dust caps, emphasizing the importance of keeping lenses covered when not in use.

6. TROUBLESHOOTING

If you encounter issues while using your erecting prism, refer to the following common problems and

solutions:

- **Problem: Image is blurry or unclear.**

Solution: Ensure the prism and eyepiece are fully inserted and secured. Adjust the telescope's focus knob slowly and carefully. Verify that the eyepiece itself is clean and free of smudges.

- **Problem: Cannot see anything through the eyepiece.**

Solution: Check that the telescope's dust caps are removed from both the objective lens and the focuser. Ensure the prism and eyepiece are correctly inserted and aligned. Point the telescope at a bright, distant object to aid in initial focusing.

- **Problem: Image is still inverted or reversed.**

Solution: The Visionking Erecting Prism is designed to correct both inversion and reversal for terrestrial viewing. Double-check that the prism is fully inserted and that you are using it with a Newtonian reflector telescope, as its function is specific to this type of optical system.

- **Problem: Difficulty achieving focus.**

Solution: Some telescopes may require additional 'in-focus' travel when using accessories like erecting prisms. If you cannot reach focus, try using a different eyepiece or consult your telescope's manual for compatibility with accessories that extend the optical path.

7. SPECIFICATIONS

Specification	Detail
Model Number	CA2
Magnification	1.5X
Eyepiece Compatibility	1.25 inches
Camera Compatibility	DSLR cameras (via M42x0.75mm thread, requires T-ring)
Lens Coating	Multilayer coating
Material	All-metal aluminum alloy
Item Weight	4.4 ounces (125 grams)
Package Dimensions	9.45 x 5.51 x 2.05 inches

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Visionking customer service through their official website or the retailer from whom the product was purchased. Please retain your proof of purchase for warranty claims.

