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Celestron 22005

Celestron National Park Foundation Travel Scope 60 Telescope User Manual

Model: 22005

INTRODUCTION

The Celestron National Park Foundation Travel Scope 60 is a versatile refractor telescope designed for both astronomical and terrestrial observations. Its compact and portable design makes it ideal for outdoor adventures, stargazing, and wildlife viewing. This manual provides essential information for setting up, operating, and maintaining your telescope to ensure optimal performance and enjoyment.



The Celestron National Park Foundation Travel Scope 60 Telescope, fully assembled on its tripod, ready for observation.

WHAT'S INCLUDED

Your Celestron National Park Foundation Travel Scope 60 (Model 22005) package includes everything you need to begin your observational journey:

- **Travel Scope 60 Telescope:** A refractor telescope with a 60 mm aperture and 360 mm focal length.
- **Adjustable Tripod:** A lightweight and portable tripod for stable viewing.
- **Eyepieces:** Two 1.25-inch eyepieces (20mm and 10mm) for varying magnifications.
- **45° Erect Image Diagonal:** Corrects image orientation for comfortable terrestrial viewing.
- **Finder Scope:** A 2x20 optical finder scope to help locate objects.
- **Barlow Lens:** A 2x Barlow lens to double the magnification of any eyepiece.
- **Smartphone Adapter:** Allows you to attach your smartphone to the eyepiece for astrophotography or sharing views.
- **Bluetooth Remote Control:** For hands-free photo capture with your smartphone, minimizing vibrations.
- **Moon Filter:** Reduces glare from the Moon for enhanced detail and comfortable viewing.
- **Custom Backpack:** A durable canvas backpack designed to store and transport the telescope and all

its accessories.



The Celestron Travel Scope 60 Telescope shown alongside its custom backpack, highlighting its portability.

SETUP

Follow these steps to quickly set up your Travel Scope 60 Telescope:

1. **Unpack Components:** Remove all items from the backpack and packaging.
2. **Set Up Tripod:** Extend the tripod legs to your desired height. Ensure the tripod is stable on a flat surface.
3. **Attach Telescope:** Secure the telescope tube to the tripod mount using the provided screw.
4. **Insert Erect Image Diagonal:** Loosen the thumbscrew on the focuser, insert the 45° erect image diagonal, and tighten the thumbscrew. This accessory ensures images are correctly oriented for terrestrial viewing.
5. **Insert Eyepiece:** Choose an eyepiece (e.g., 20mm for lower magnification and wider field of view) and insert it into the diagonal. Secure it with the thumbscrew. For higher magnification, use the 10mm eyepiece. For even higher magnification, insert the 2x Barlow lens into the diagonal first, then insert an

eyepiece into the Barlow lens.

6. **Attach Finder Scope:** Slide the finder scope into its bracket on the telescope tube and tighten the small screws to secure it.
7. **Attach Smartphone Adapter (Optional):** If using the smartphone adapter, attach it to the eyepiece and secure your phone.



The Celestron Travel Scope 60 Telescope fully assembled on its tripod, ready for use.

Product Tour Video



Watch this official product tour video for a visual guide on setting up and using your Celestron Travel Scope.

OPERATING YOUR TELESCOPE

Calibrating the Finder Scope

The finder scope helps you locate objects quickly. To calibrate it:

1. Point the main telescope at a distant, easily identifiable object (e.g., a tree or building during the day).
2. Center the object in the main telescope's eyepiece.
3. Look through the finder scope and adjust its alignment screws until the same object is centered in the finder scope's crosshairs.

Focusing

Once an object is centered in your eyepiece, turn the focus knob slowly until the image is sharp and clear. Fine-tune as needed for different objects or eyepieces.



A close-up view of the focuser mechanism and eyepiece on the Celestron Travel Scope 60.

Terrestrial Viewing

The 45° erect image diagonal provides correctly oriented images, making the Travel Scope 60 excellent for daytime terrestrial observations. Use the lower power (20mm) eyepiece for a wider field of view when observing landscapes or wildlife.

Astronomical Viewing

For stargazing, use the finder scope to locate celestial objects. Start with the 20mm eyepiece for a broad view, then switch to the 10mm eyepiece for higher magnification. The 2x Barlow lens can further increase magnification for detailed views of the Moon and planets like Saturn (rings may be just visible) and Jupiter (moons visible).

Using the Moon Filter

When observing the Moon, especially when it's bright, attach the moon filter to your eyepiece. This will reduce glare and enhance contrast, allowing you to see more surface details comfortably.

Smartphone Photography

Attach your smartphone to the eyepiece using the provided adapter. Use the Bluetooth remote control to trigger your phone's camera without touching the telescope, preventing vibrations and ensuring sharper images of celestial or terrestrial objects.

MAINTENANCE

Proper care will extend the life of your telescope:

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical surfaces. Avoid touching the lens surfaces with your fingers.
- **Dust Protection:** Always keep the dust caps on the telescope and eyepieces when not in use. Store the telescope in its backpack to protect it from dust and moisture.
- **Storage:** Store the telescope in a cool, dry place. Avoid extreme temperatures or high humidity.

TROUBLESHOOTING

- **Unstable Image:** If the image appears shaky, ensure the tripod legs are fully extended and locked, and all screws securing the telescope to the tripod are tightened. The provided tripod is lightweight for portability; for maximum stability, consider using a more robust camera tripod if available.
- **Cannot Focus:** Ensure the eyepiece is fully inserted into the diagonal and secured. Turn the focus knob slowly and deliberately. If viewing terrestrial objects, ensure the erect image diagonal is correctly installed.
- **Dark or Blurry Image:** Check that all lens caps are removed, including the small cap on the objective lens. Ensure the correct eyepiece is used for the desired observation.
- **Finder Scope Misaligned:** Recalibrate the finder scope as described in the Operating section.

SPECIFICATIONS

Aperture	60 mm
Focal Length	360 mm
Eyepiece/Magnification	1.25"/18x (with 20mm eyepiece)
Diagonal	45° Erect Image
Weight	1.7 lbs (telescope only) / 5.45 lbs (package weight)
Optical Tube Length	70 Millimeters (referring to objective lens diameter)
Objective Lens Diameter	70 Millimeters
Telescope Mount Description	Altazimuth Mount
Focus Type	Manual Focus
Finderscope	Reflex

Compatible Devices	Smartphone, Camera
Lens Coating Description	Coated

WARRANTY AND SUPPORT

Your Celestron National Park Foundation Travel Scope 60 comes with a **2-Year Warranty**. For technical support, product registration, or warranty claims, please visit the official Celestron website or contact their customer service department. Additional protection plans may be available for purchase.