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Bluelander Telescopio Modelo 2

Bluelander Professional Astronomical Telescope User Manual

Model: Telescopio Modelo 2

Introduction

Thank you for choosing the Bluelander Professional Astronomical Telescope. This telescope is designed to provide clear and detailed views of celestial objects, making it ideal for beginner explorers and amateur astronomers. This manual will guide you through the assembly, operation, and maintenance of your new telescope to ensure an optimal viewing experience.

Safety Information

- **Never look directly at the sun** through the telescope or its finderscope without a professionally manufactured solar filter. Doing so can cause immediate and permanent eye damage.
- Do not leave the telescope unattended, especially when children are present.
- Handle optical components with care to avoid scratches or damage.
- Ensure the tripod is stable on a level surface before use to prevent tipping.
- Keep the telescope away from moisture and extreme temperatures.

Package Contents

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

- Telescope Optical Tube
- Adjustable Aluminum Alloy Tripod (45-122 cm)
- 20mm Eyepiece
- 10mm Eyepiece
- 2x Barlow Lens
- Moon Filter
- Finderscope
- Smartphone Holder
- Bluetooth Remote Control

- Backpack for transport



Image: All components of the Bluelander Astronomical Telescope laid out, including the main optical tube, tripod, various eyepieces, filters, and smartphone accessories.

Setup Instructions

Follow these steps to assemble your Bluelander Astronomical Telescope:

1. **Assemble the Tripod:**

   Unfold the aluminum alloy tripod legs and extend them to your desired height (between 45 cm and 122 cm). Ensure the legs are fully spread and stable on a flat surface. Tighten any locking mechanisms to secure the tripod's position.

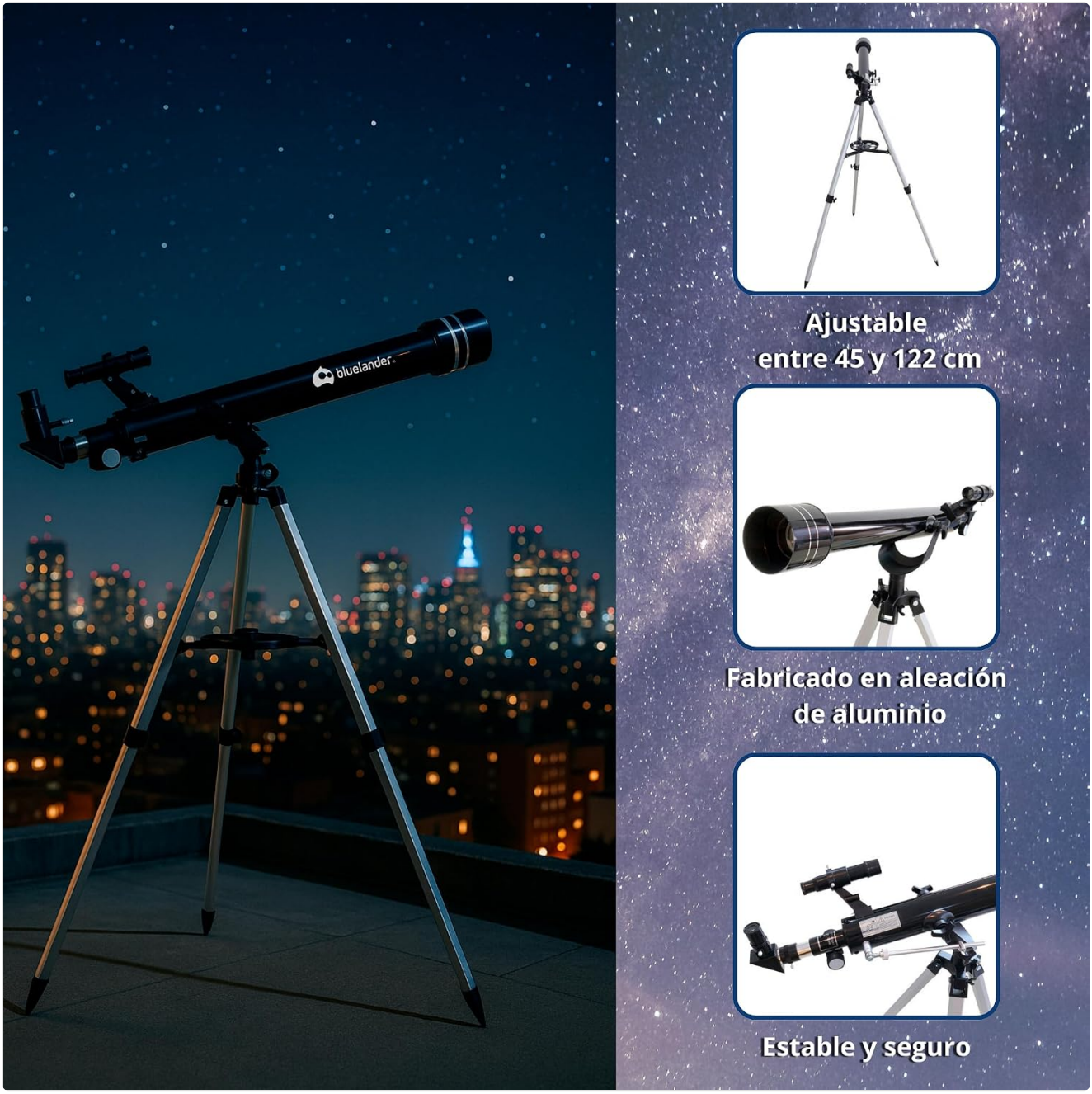


Image: The adjustable aluminum alloy tripod shown extended, highlighting its stability and height range.

2. **Attach the Telescope Optical Tube:**

   Carefully place the telescope optical tube onto the tripod mount. Align the mounting screws or clamps with the corresponding holes on the telescope tube. Securely tighten the screws or clamps to ensure the telescope is firmly attached to the tripod. Do not overtighten.

3. **Install the Finderscope:**

   Locate the finderscope and its bracket. Slide the finderscope into the designated slot on the main telescope tube. Tighten the small screws on the bracket to hold the finderscope in place. The finderscope helps in locating objects before viewing them through the main eyepiece.

4. **Insert Eyepiece and Barlow Lens (Optional):**

   Loosen the thumbscrews on the focuser. Insert either the 20mm or 10mm eyepiece directly into the focuser. For higher magnification, first insert the 2x Barlow lens into the focuser, then insert an eyepiece into the Barlow lens. Gently tighten the thumbscrews to secure the eyepiece (and Barlow lens) in place. Start with the 20mm eyepiece for a wider field of view to easily locate objects.

5. **Attach Smartphone Holder:**

   The smartphone holder can be attached to an eyepiece to capture images. Secure your smartphone into the holder,

then attach the holder to the eyepiece. Ensure your phone's camera lens is aligned with the eyepiece for optimal viewing and photography.

6. **Remote Control Pairing:**

   Turn on the Bluetooth remote control. On your smartphone, go to Bluetooth settings and pair with the remote control. This will allow you to trigger your phone's camera remotely, reducing vibrations during astrophotography.



Image: The Bluelander Astronomical Telescope fully assembled on its tripod, positioned outdoors against a city skyline at night, demonstrating its readiness for use.

Operating Instructions

Once assembled, you are ready to begin observing:

1. **Locating an Object:**

   Begin with the lowest magnification eyepiece (20mm) for the widest field of view. Use the finderscope to roughly aim the telescope at your desired celestial object. Once the object is centered in the finderscope, it should be visible in the main telescope eyepiece.

2. **Focusing:**

   Turn the focus knob slowly until the image appears sharp and clear. Fine-tune the focus for the best possible view.

3. **Changing Magnification:**

   To increase magnification, replace the 20mm eyepiece with the 10mm eyepiece. For even higher magnification, insert the 2x Barlow lens before the eyepiece. Remember that higher magnification reduces brightness and narrows the field of view, making objects harder to track.

4. **Using the Moon Filter:**

   The moon filter screws onto the bottom of your eyepiece. It reduces the brightness of the moon, making it more comfortable to observe and revealing finer details on its surface.

5. **Smartphone Photography:**

   With your smartphone attached to the eyepiece via the holder and paired with the Bluetooth remote, open your phone's camera app. Adjust the focus on the telescope until the image is clear on your phone screen. Use the remote control to take photos or start video recording, minimizing camera shake.



Image: A collage showing the Bluelander telescope in different observation environments, including a balcony, patio, grassy field, and

indoors by a window, illustrating its versatility.



Image: A person kneeling and looking through the Bluelander Astronomical Telescope in a green, grassy outdoor area, demonstrating typical user interaction during observation.

Maintenance

Proper care will extend the life and performance of your telescope:

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lens surface. 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 your fingers.
- **General Cleaning:** Wipe down the telescope tube and tripod with a soft, dry cloth to remove dust and dirt.
- **Storage:** When not in use, store the telescope in its provided backpack or a dry, dust-free environment. Keep dust caps on the optical tube and eyepieces to protect the lenses.
- **Transportation:** Always use the provided backpack for transporting the telescope to protect it from impacts and scratches.



Image: The Bluelander telescope set up in a grassy outdoor environment, with text overlays indicating its portability, robust structure, and practical design, highlighting its ease of transport and outdoor use.

Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Improper focusing.	Adjust the focus knob slowly until the image is sharp.
Cannot find objects.	Telescope not aligned with finderscope; using too high magnification.	Ensure finderscope is aligned. Start with the 20mm eyepiece for a wider field of view.

Problem	Possible Cause	Solution
Image is dim.	High magnification; light pollution.	Use a lower magnification eyepiece. Observe from a darker location away from city lights.
Smartphone camera not connecting to remote.	Bluetooth not enabled or paired.	Ensure Bluetooth is on and the remote is paired in your phone's settings. Check remote battery.

Specifications

- **Model Name:** Telescopio Modelo 2
- **Focal Length:** 400 mm
- **Eyepiece Lens Description:** Huygens
- **Telescope Mount Description:** Altazimuth Mount
- **Product Dimensions (D x W x H):** 3.54" x 23.62" x 48.03"
- **Focus Type:** Manual Focus
- **Finderscope:** Straight-Through
- **Exit Pupil:** 1.33 Millimeters
- **Field Of View:** 1.2 Degrees
- **Dawes Limit:** 1.93 Arc Sec
- **Built-In Media:** Tripod
- **Tripod Adjustment Range:** 45-122 cm

Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or contact Bluelander customer service through their official website. Please have your model number (Telescopio Modelo 2) and purchase date available when contacting support.

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