

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [WOSPORTS](#) /
- › [WOSPORTS 90mm Aperture 600mm Refractor Telescope User Manual](#)

## WOSPORTS 90600 telescope

# WOSPORTS 90mm Aperture 600mm Refractor Telescope User Manual

Model: 90600 telescope

## INTRODUCTION

---

This manual provides detailed instructions for the assembly, operation, and maintenance of your WOSPORTS 90mm Aperture 600mm Refractor Telescope. Please read this manual thoroughly before using your telescope to ensure proper function and optimal viewing experience.



Image: The WOSPORTS 90mm Aperture 600mm Refractor Telescope, shown with its adjustable tripod, eyepieces, Barlow lens, finderscope, and phone adapter.

## PACKAGE CONTENTS

---

# PRODUCT COMPONENTS OVERVIEW



Image: Overview of all components included in the WOSPORTS Telescope kit, including the telescope tube, tripod, eyepieces, Barlow lens, finderscope, phone adapter, and carry bag.

Verify that all components listed below are present in your package:

- Telescope Tube (90mm Aperture, 600mm Focal Length)
- Adjustable Aluminum Tripod
- 3x24 Finderscope
- Eyepieces: K25mm, K10mm
- 3X Barlow Lens
- 45° Erect-Image Zenith Mirror (Diagonal)
- Phone Adapter
- Accessory Tray
- Carry Bag
- User Manual (this document)

# SETUP INSTRUCTIONS

## 1. 1. Assemble the Tripod

Unfold the aluminum tripod legs and extend them to your desired height. Secure the legs using the locking mechanisms. Attach the accessory tray to the center brace of the tripod for stability and storage of eyepieces.

# MULTIFUNCTIONAL ALUMINUM TRIPOD

- Stable, Durable & Easy to Carry
- Adjustable Height & 360° Rotation

49in / 119cm

29in / 73cm

Horizontal 360° Vertical 180°

Aluminum Alloy Tripod

Lightweight & Portable

Image: The adjustable aluminum tripod for the WOSPORTS telescope, illustrating its height range from 29 inches to 49 inches and 360-degree horizontal rotation.

## 2. 2. Attach the Telescope Tube to the Tripod

Locate the mounting screw on the tripod head. Align the telescope tube's mounting hole with the screw and securely fasten it. Ensure the tube is stable and does not wobble.

## 3. 3. Install the Finderscope

Slide the 3x24 finderscope into its bracket on the main telescope tube. Tighten the small screws on the bracket to hold it in place. The finderscope helps in quickly locating objects before viewing them through the main telescope.

#### 4. 4. Insert the Diagonal Mirror and Eyepiece

Insert the 45° erect-image zenith mirror (diagonal) into the focuser tube. Secure it with the small thumbscrew. Then, insert your chosen eyepiece (e.g., K25mm) into the diagonal mirror and tighten its thumbscrew. The diagonal mirror provides a more comfortable viewing angle and corrects the image orientation for terrestrial viewing.



Image: A diagram illustrating the 45° erect-image zenith mirror for comfortable viewing and the 3x24 finderscope for target acquisition on the WOSPORTS telescope.

#### 5. 5. Attach the Phone Adapter (Optional)

If you wish to capture photos or videos, attach the phone adapter to an eyepiece. Secure your smartphone in the adapter and align its camera lens with the eyepiece. Then, insert the eyepiece with the attached phone adapter into the diagonal mirror.

## OPERATING INSTRUCTIONS

#### 1. 1. Aligning the Finderscope

Before observing, align the finderscope with the main telescope. Point the main telescope at a distant, stationary

object (e.g., a tree or building) during daylight hours. Center the object in the main telescope's eyepiece. Then, adjust the finderscope's alignment screws until the same object is centered in its crosshairs. This ensures that whatever you see in the finderscope is also visible in the main telescope.

## 2. **Locating Objects**

Use the finderscope to locate your desired celestial or terrestrial object. Once the object is centered in the finderscope's crosshairs, look through the main telescope's eyepiece. The object should be visible within the field of view.

## 3. **Focusing**

Turn the focus knob slowly until the image appears sharp and clear. For astronomical observations, slight adjustments may be needed as objects move across the sky due to Earth's rotation.

## 4. **Changing Magnification**

Your telescope comes with two eyepieces (K25mm and K10mm) and a 3X Barlow lens. The K25mm eyepiece provides lower magnification and a wider field of view, ideal for initial object location. The K10mm eyepiece offers higher magnification for more detailed views. The 3X Barlow lens triples the magnification of any eyepiece it is used with.

- **K25mm Eyepiece:** 24X magnification ( $600\text{mm} / 25\text{mm} = 24$ )
- **K10mm Eyepiece:** 60X magnification ( $600\text{mm} / 10\text{mm} = 60$ )
- **K25mm + 3X Barlow:** 72X magnification ( $24X * 3 = 72$ )
- **K10mm + 3X Barlow:** 180X magnification ( $60X * 3 = 180$ )

To change magnification, remove the current eyepiece and insert the desired one. To use the Barlow lens, insert it into the diagonal mirror first, then insert an eyepiece into the Barlow lens.

# HIGH POWERED MAGNIFICATION

Achieve Optimal Magnification with 3X Barlow Lens

**24X**



With 25mm Eyepiece

**72X**



3X Barlow Lens+25mm Eyepiece

**60X**



With 10mm Eyepiece

**180X**



3X Barlow Lens+10mm Eyepiece

Image: A visual representation of the different magnification levels (24X, 60X, 72X, 180X) achievable with the WOSPORTS telescope using the 25mm and 10mm eyepieces, and the 3X Barlow lens, showing corresponding views of the moon.

## 5. 5. Terrestrial Viewing

The 45° erect-image diagonal mirror ensures that images are upright, making the telescope suitable for observing distant terrestrial objects such as wildlife or landscapes.

# VERSATILE FOR MULTIPLE SCENES



Image: Examples of versatile viewing scenarios for the WOSPORTS telescope, including observing the moon, planets, distant cityscapes, and wildlife.

## MAINTENANCE

---

- **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 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 carry bag in a dry, dust-free environment. Avoid extreme temperatures and humidity, which can damage optical components.

## TROUBLESHOOTING

---

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Incorrect focus setting.	Adjust the focus knob slowly until the image is sharp.
Cannot find objects.	Finderscope is not aligned with the main telescope.	Align the finderscope during daylight hours using a distant, stationary object.
Image is upside down or reversed.	Diagonal mirror not used or incorrect eyepiece.	Ensure the 45° erect-image diagonal mirror is properly installed for terrestrial viewing. Astronomical viewing will naturally show inverted images.
Image is dim or dark.	High magnification in low light conditions; dirty lenses.	Use a lower magnification eyepiece. Clean the objective lens and eyepieces if necessary.

## SPECIFICATIONS

- **Brand:** WOSPORTS
- **Model Name:** 90600 telescope
- **Optical Design:** Refractor
- **Aperture:** 90mm
- **Focal Length:** 600mm
- **Focal Ratio:** f/6.7
- **Eyepieces:** K25mm, K10mm
- **Barlow Lens:** 3X
- **Magnification Range:** 24X - 180X
- **Finderscope:** 3x24 Reflex
- **Diagonal:** 45° Erect-Image Zenith Mirror
- **Mount Type:** Altazimuth Mount
- **Tripod:** Adjustable Aluminum Alloy (29-49 inches)
- **Product Dimensions:** 12 x 4.5 x 32 inches
- **Item Weight:** 6.59 pounds

## WARRANTY AND SUPPORT

WOSPORTS offers a **1-year warranty** for this telescope. For any questions regarding product operation, technical support, or warranty claims, please contact WOSPORTS customer service. Our expert team is available to assist you. Please refer to the contact information provided with your purchase or visit the official WOSPORTS website for support details.



