Estes 2232

Estes 2232 Altitrack Model Rocket Altitude Tracker Instruction Manual

Model: 2232 | Brand: Estes

Product Overview

The Estes AltiTrack altitude tracker is designed for accurately determining the maximum altitude reached by a launched model rocket. This handheld device features sights for precise tracking and a trigger-locking degree wheel to secure the altitude reading. It is suitable for educational purposes and experimental curiosity in model rocketry.

Image: The Estes 2232 Altitrack, a blue handheld device used for measuring rocket altitude.

What's Included

Your Estes 2232 Altitrack package includes the following components:

- Altitude-tracking tool
- Trigger-locking degree wheel

Image: A visual representation of the Altitrack device and its key components, highlighting the altitude-tracking tool and the trigger-locking degree wheel.

Operating Instructions

Follow these steps to accurately track the altitude of your model rocket:

1. **Preparation:** Ensure you are at a safe distance from the launch pad, as per NAR (National Association of Rocketry) safety codes. A distance of at least 15 feet is recommended.
2. **Tracking the Rocket:** As the rocket launches and ascends, use the sights on the Altitrack device to follow its trajectory. Keep the rocket centered in the sights.
3. **Locking the Reading:** Continue tracking until the rocket reaches its apogee (peak altitude). At this precise moment,

pull the trigger on the Altitrack to lock the degree wheel, saving the altitude reading.

4. **Reading the Altitude:** Once the reading is locked, you can observe the angle on the degree wheel. This angle, combined with your known horizontal distance from the launch site, can be used to calculate the rocket's altitude.

Image: A person demonstrating the use of the Altitrack, holding it up to track an object, illustrating the measurement process.

The Altitrack is a manual tool that does not require batteries and does not add mass to the rocket payload, ensuring accurate results for each launch.

Safety Information

Important Safety Notice: This product is not a toy. It is intended for users aged 14 and above. Always adhere to the NAR (National Association of Rocketry) model-rocket safety code when conducting launches. Ensure an appropriate launch site is selected, and maintain a safe distance from the launch area.

Maintenance

The Estes Altitrack is designed for durability and requires minimal maintenance. To ensure its longevity and accuracy:

- Store the device in a clean, dry place away from extreme temperatures.
- Wipe the device with a soft, dry cloth after each use to remove any dust or debris.
- Avoid dropping the device or subjecting it to harsh impacts, as this may affect its calibration.

Troubleshooting

If you encounter issues with your Altitrack, consider the following:

- **Inaccurate Readings:** Ensure you are holding the device steady and tracking the rocket precisely at its apogee. Verify your horizontal distance from the launch site for accurate calculations.
- **Sticking Degree Wheel:** Check for any debris or foreign objects obstructing the movement of the degree wheel. Gently clean the mechanism if necessary.
- **Physical Damage:** Inspect the device for any cracks or breaks. If significant damage is present, the accuracy may be compromised, and replacement might be necessary.

Specifications

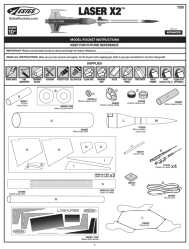
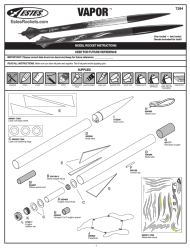
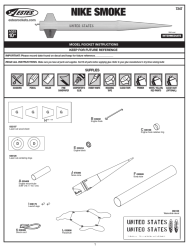
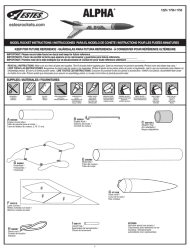
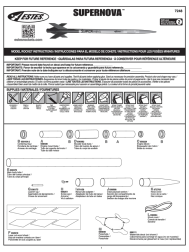
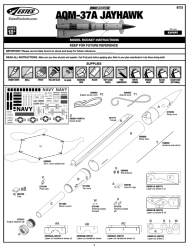
Feature	Detail
Brand	Estes
Model Name	2232 Altitrak Altitude Rocket Tracker
Color	Blue
Material	Plastic
Item Weight	8 ounces
Product Dimensions	14"L x 2"W x 18.29"H
UPC	047776022324
Date First Available	October 1, 2012

Image: The Altitrack device shown with its technical specifications, including dimensions, weight, and material.

Warranty and Support

For warranty information or technical support regarding your Estes 2232 Altitrack, please refer to the official Estes website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
Estes is committed to providing quality products and support for aspiring rocketeers.

Related Documents - 2232

	[Estes Laser X2™ Model Rocket Assembly Instructions (Model 7320)] Comprehensive assembly guide for the Estes Laser X2™ model rocket kit (Model 7320). This document provides detailed, step-by-step instructions, a complete parts list, supply requirements, painting and decal application guidance, and essential launch and safety procedures.
	[Estes Vapor Model Rocket Kit Assembly and Launch Instructions] Comprehensive instructions for assembling, finishing, and launching the Estes Vapor model rocket kit (Model 7294), including parts list, step-by-step assembly, painting guides, and safety precautions.
	[Estes Nike Smoke Model Rocket Instructions (7247)] Detailed assembly and launch instructions for the Estes Nike Smoke model rocket (model number 7247). Includes parts list, supplies needed, step-by-step building guide, finishing tips, and safety precautions.
	[Estes Alpha Model Rocket Instructions - Assembly and Launch Guide] Comprehensive assembly and launch instructions for the Estes Alpha model rocket (Models 1225, 1756, 1753). Includes parts list, step-by-step building guide, finishing tips, recovery system preparation, engine setup, launch procedure, and safety precautions.
	[Estes Super Nova Model Rocket Assembly Instructions] Detailed instructions for assembling the Estes Super Nova model rocket, including parts lists, step-by-step guides, and safety precautions.
	[Estes AQM-37A Jayhawk Model Rocket Kit Assembly Instructions] Detailed instructions for assembling the Estes AQM-37A Jayhawk Pro Series II model rocket kit. This guide covers parts identification, step-by-step assembly, finishing techniques, and launch preparation for the expert-level model rocket.