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› Sky-Watcher AZ-GTI Portable Computerized GoTo Alt-Az Mount User Manual

Sky-Watcher S21110

Sky-Watcher AZ-GTI Portable Computerized GoTo Alt-Az Mount User Manual

Model: S21110

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Sky-Watcher AZ-GTI Portable Computerized GoTo Alt-Az Mount. Please read this manual thoroughly before using the product to ensure proper function and longevity.

SETUP

Unpacking and Component Identification

Carefully unpack all components and verify that all parts are present. The package should include:

- Sky-Watcher AZ-GTi GoTo AZ Mount
- Pier Extension
- Adjustable Aluminum Tripod with Tray





Figure 1: Sky-Watcher AZ-GTI mount assembled with its tripod and pier extension. The mount head is white and black, mounted on a black pier extension, which is attached to a black and white adjustable aluminum tripod.

Assembling the Tripod and Mount

1. Extend the legs of the aluminum tripod and secure them.
2. Attach the pier extension to the tripod head.
3. Mount the AZ-GTi GoTo AZ Mount head onto the pier extension, ensuring it is securely fastened.
4. Place the accessory tray onto the tripod spreader.

Powering the Mount

The AZ-GTi mount offers multiple power options:

- **Internal AA Batteries:** Insert AA batteries into the designated compartment.
- **External 12V Power Source:** Connect a 12V power supply (not included) to the 12V input port on the mount.



Figure 2: A close-up view of the AZ-GTi mount's control panel, showing the Hand Control port, Power port for external supply, and SNAP port for camera control. A red power switch and WiFi indicator are also visible.

OPERATING THE AZ-GTi MOUNT

Connecting via WiFi and SynScan Pro App

The AZ-GTi generates its own WiFi signal for control via a smartphone or tablet. Follow these steps:

1. Download the Sky-Watcher SynScan Pro app from your device's app store (iOS or Android).
2. Power on the AZ-GTi mount.

3. On your smartphone or tablet, connect to the WiFi network broadcast by the AZ-GTi mount. The network name typically starts with "SynScan_WiFi".
4. Launch the SynScan Pro app. The app will automatically detect and connect to the mount.



**CONTROL THE MOUNT
WITH THE SYNSCAN APP
AVAILABLE FOR FREE FOR
ANDROID AND iOS**

Figure 3: A smartphone screen showing the SynScan Pro app interface, which allows control of the mount. Icons for Alignment, Star, Deep Sky, Utility, User Objects, and Settings are visible, along with directional controls.

Alignment Procedure

For accurate GoTo functionality, the mount requires alignment. Refer to the SynScan Pro app's in-app instructions for detailed alignment procedures (e.g., 1-star, 2-star, or 3-star alignment).

GoTo and Tracking

Once aligned, you can select celestial objects from the SynScan Pro app's database. The mount will automatically slew to the selected object and begin tracking it to keep it centered in your eyepiece or camera field of view.

**11-POUND PAYLOAD CAPACITY
AND 8.6-POUND TOTAL WEIGHT
MAKE THE AZ-GTi THE IDEAL
GRAB-AND-GO MOUNT**



Figure 4: The AZ-GTi mount with a telescope tube attached, demonstrating its capacity to hold optical instruments for observation or imaging. The mount is designed for an 11-pound payload.

Freedom Find Dual Encoders

The AZ-GTi features Freedom Find dual encoders, allowing you to manually move the telescope without losing the mount's alignment. After manual movement, the mount will automatically resume tracking from the new position.

Photography Mode (Time-Lapse and Panorama)

The SynScan Pro app includes a photography mode for creating time-lapse videos and panoramic photos. Connect your DSLR camera to the mount's SNAP port using an optional shutter release cable. The mount can trigger your DSLR for automated shooting sequences.

USE YOUR DSLR CAMERA,
THE BUILT-IN SHUTTER RELEASE
AND PRE-PROGRAMMED CONTROLS
IN THE SYNSCAN PRO APP TO CREATE
VIDEOS AND PANORAMIC PHOTOS



CAMERA AND L-BRACKET NOT INCLUDED

Figure 5: The AZ-GTi mount with a DSLR camera mounted, illustrating its capability for time-lapse and panoramic photography. The camera connects via the SNAP port for automated control.

MAINTENANCE

Cleaning

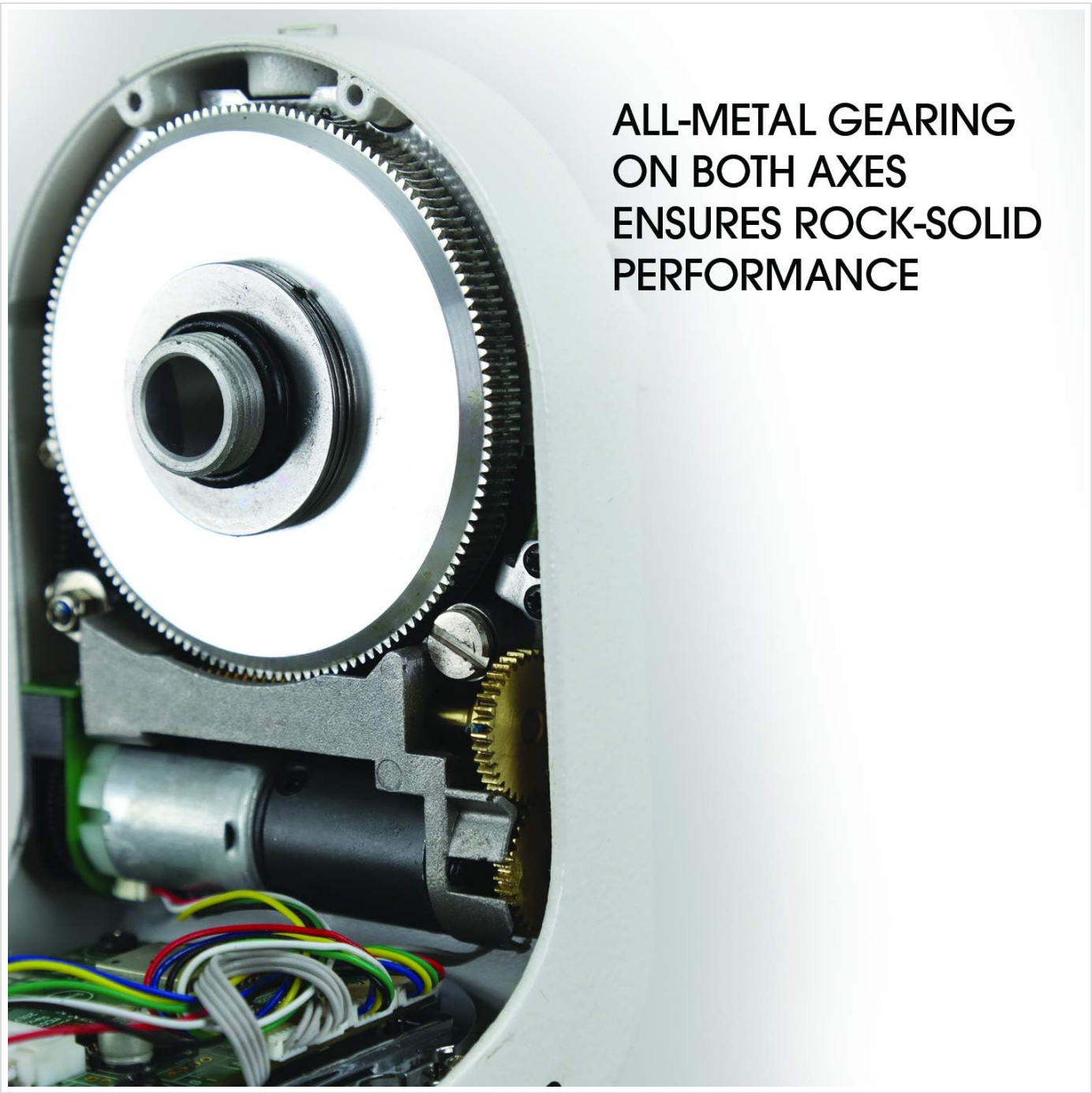
Keep the mount clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the finish or internal components.

Storage

When not in use, store the mount in a dry, dust-free environment. It is recommended to remove batteries if storing for extended periods to prevent leakage.

Gearing

The AZ-GTi features rugged brass and aluminum gears for smooth operation. These gears are designed for durability and typically do not require user maintenance or lubrication.



**ALL-METAL GEARING
ON BOTH AXES
ENSURES ROCK-SOLID
PERFORMANCE**

Figure 6: An internal view of the AZ-GTi mount, highlighting the all-metal brass and aluminum gearing on both axes, which ensures precise and stable performance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Mount does not power on.	Low or dead batteries; incorrect external power connection.	Replace batteries or ensure external 12V power supply is correctly connected and functional.

Problem	Possible Cause	Solution
Cannot connect to mount via WiFi.	WiFi signal not active; incorrect network selected; app issue.	Ensure mount is powered on and WiFi indicator is active. Verify you are connected to the correct "SynScan_WiFi" network. Restart the SynScan Pro app or your device.
GoTo accuracy is poor.	Improper alignment; mount not level; excessive payload.	Perform a more precise alignment (e.g., 3-star alignment). Ensure the tripod is level. Verify payload does not exceed 11 pounds.
Tracking is not smooth.	Mount not balanced; loose connections; extreme temperatures.	Ensure telescope/camera is balanced on the mount. Check all connections for tightness. Operate within recommended temperature ranges.

SPECIFICATIONS

Feature	Detail
Model Number	S21110
Mount Type	Computerized GoTo Alt-Az Mount
Payload Capacity	11 pounds (approx. 5 kg)
Item Weight	8.6 pounds (approx. 3.9 kg)
Connectivity	WiFi Enabled (App Controlled via SynScan Pro)
Power Options	Internal AA battery compartment, External 12V input
Special Features	Freedom Find Dual Encoders, Time-Lapse and Panorama Photography Capable (SNAP port)
Included Accessories	Adjustable aluminum tripod with pier extension

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Sky-Watcher website or contact Sky-Watcher customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Official User Manual (PDF): [Download PDF Manual](#)

Sky-Watcher Store: [Visit Sky-Watcher Store on Amazon](#)

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question