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Sky-Watcher S30104

Sky-Watcher SynScan GPS Module Instruction Manual

Model: S30104

1. INTRODUCTION

The Sky-Watcher SynScan GPS Module (Model S30104) is designed to enhance the accuracy and ease of setting up your astronomical telescope. This module automatically inputs precise date, time, and location data directly into your SynScan hand controller, streamlining the alignment process for your telescope mount.

It is fully compatible with all telescope mounts that utilize the SynScan hand controller system.

Package Contents:

- SynScan GPS Module
- AZ Cable
- EQ Cable



Figure 1: The Sky-Watcher SynScan GPS Module, showing the main black rectangular unit and the two included black connecting cables. One cable features a round multi-pin connector, while the other has a similar round multi-pin connector on one end and a clear RJ11/RJ12

type connector on the opposite end.

2. SETUP AND INSTALLATION

Follow these steps to correctly connect your SynScan GPS Module to your SynScan hand controller:

1. **Identify Ports:** Locate the dedicated GPS port on your SynScan hand controller. This port is typically labeled or indicated in your hand controller's manual.
2. **Connect GPS Module:** Connect the appropriate cable from the SynScan GPS Module to the GPS port on your SynScan hand controller. Ensure the connection is firm and secure. The module comes with both AZ and EQ cables to ensure compatibility with various SynScan hand controller models.
3. **Power On:** Once the GPS module is connected, power on your telescope mount and SynScan hand controller as you normally would. The GPS module will begin to acquire satellite signals automatically.
4. **Placement:** For optimal signal acquisition, place the GPS module in an area with a clear view of the sky, free from obstructions like buildings or dense foliage.

No additional software or driver installation is required for the GPS module itself; its functionality is integrated with the SynScan system.

3. OPERATING INSTRUCTIONS

Once properly connected and powered on, the SynScan GPS Module operates automatically to provide essential data to your SynScan hand controller.

- **Automatic Data Input:** The module continuously receives signals from GPS satellites to determine your precise geographical coordinates (latitude and longitude), current date, and accurate time.
- **Seamless Integration:** This data is then automatically transmitted to the SynScan hand controller, eliminating the need for manual entry of these parameters during the telescope alignment process.
- **Enhanced Alignment:** By providing highly accurate and up-to-date location and time information, the GPS module significantly improves the precision and speed of your telescope's initial alignment, leading to more accurate Go-To performance.

Monitor your SynScan hand controller's display for confirmation that GPS data has been successfully acquired and is being used for alignment calculations.

4. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your SynScan GPS Module, observe the following maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the module. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing.
- **Storage:** When not in use, store the module in a cool, dry place, away from direct sunlight and extreme temperatures. Protect it from dust and moisture.
- **Cable Care:** Handle the connecting cables with care. Avoid sharp bends, kinks, or excessive pulling, which can damage the internal wiring or connectors.
- **Environmental Protection:** The module is designed for outdoor use but should be protected from heavy rain or prolonged exposure to very humid conditions. It is not waterproof.

Regular inspection of the cables and connectors for any signs of wear or damage is recommended.

5. TROUBLESHOOTING

If you encounter issues with your SynScan GPS Module, consider the following troubleshooting steps:

- **No GPS Signal / Data Not Updating:**
 - Ensure the module is placed in an open area with an unobstructed view of the sky.
 - Verify that all cables are securely connected to both the GPS module and the SynScan hand controller.
 - Power cycle your telescope mount and hand controller.
 - Allow several minutes for the module to acquire satellite signals, especially if it's the first use in a new location.
- **Incorrect Date/Time/Location:**
 - Confirm that your SynScan hand controller's firmware is up to date. Refer to the Sky-Watcher website for the latest firmware.
 - Ensure the GPS module is receiving a strong signal. Relocate if necessary.
- **Module Not Recognized by Hand Controller:**
 - Check the compatibility of your SynScan hand controller model with the GPS module.
 - Inspect the connecting cables for any visible damage or bent pins. Try using the alternative cable (AZ or EQ) if provided and applicable.

If problems persist after attempting these steps, please contact Sky-Watcher customer support for further assistance.

6. SPECIFICATIONS

Model Name	SynScan GPS Module
Model Number	S30104
Product Dimensions	8.19 x 2.28 x 2.01 inches (20.8 x 5.8 x 5.1 cm)
Item Weight	4.6 ounces (130 grams)
Connectivity Technology	GPS
Included Components	GPS Module, AZ Cable, EQ Cable
Compatible Devices	All mounts using SynScan hand controller
Manufacturer	Sky-Watcher
Date First Available	November 12, 2019

7. WARRANTY AND SUPPORT

For information regarding the warranty coverage for your Sky-Watcher SynScan GPS Module, please refer to the warranty documentation included with your original purchase or visit the official Sky-Watcher website.

Should you require technical assistance, have questions about product functionality, or need to report an issue, please contact Sky-Watcher customer support. You can typically find contact information on the manufacturer's official website or through your authorized dealer.

For more products and information from Sky-Watcher, please visit the [Sky-Watcher Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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