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› Sky-Watcher Wi-Fi Adapter Instruction Manual

## Sky-Watcher SW1240010464

# Sky-Watcher Wi-Fi Adapter Instruction Manual

Model: SW1240010464

## 1. INTRODUCTION

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The Sky-Watcher Wi-Fi Adapter allows for remote control of your Sky-Watcher GOTO telescope mount using a smartphone or tablet. By connecting this adapter to the hand control port of your mount, you can utilize the dedicated SynScan or SynScan Pro applications (available for Android and iOS) to wirelessly control your telescope. This manual provides essential information for setting up, operating, and maintaining your Wi-Fi adapter.

## 2. PACKAGE CONTENTS

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Please verify that all items listed below are included in your package:

- Sky-Watcher Wi-Fi Adapter Unit
- RJ12-RJ45 Cable (for Alt-Azimuth Mounts)
- RJ45-RJ45 Cable (for Equatorial Mounts)
- Instruction Manual (this document)



Figure 2.1: Sky-Watcher Wi-Fi Adapter with RJ12-RJ45 and RJ45-RJ45 cables.

This image shows the compact black Wi-Fi adapter unit alongside two black connection cables with clear RJ-type connectors. One cable is shorter with an RJ12 connector on one end and an RJ45 on the other, suitable for alt-azimuth mounts. The other cable is longer with RJ45 connectors on both ends, designed for equatorial mounts.

## 3. SETUP

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### 3.1. Hardware Connection

1. **Identify the Hand Control Port:** Locate the hand control port on your Sky-Watcher GOTO telescope mount. This port is typically an RJ-style jack.
2. **Select the Correct Cable:**
  - For **Alt-Azimuth Mounts** (e.g., AZ-GTi, Star Discovery): Use the **RJ12-RJ45 cable**. Connect the RJ12 end to the mount's hand control port and the RJ45 end to the Wi-Fi adapter.
  - For **Equatorial Mounts** (e.g., EQ3, EQ5, HEQ5, EQ6-R): Use the **RJ45-RJ45 cable**. Connect one RJ45 end to the mount's hand control port and the other RJ45 end to the Wi-Fi adapter.
3. **Connect the Wi-Fi Adapter:** Firmly insert the appropriate cable into the Wi-Fi adapter's RJ45 port.
4. **Power On the Mount:** Ensure your telescope mount is powered on. The Wi-Fi adapter draws power directly from the mount.

### 3.2. Software Setup (SynScan/SynScan Pro App)

1. **Download the App:** Download the official "SynScan" or "SynScan Pro" application from your device's app store (Google Play Store for Android, Apple App Store for iOS).
2. **Connect to Wi-Fi Network:** On your smartphone or tablet, go to your Wi-Fi settings. Locate and connect to the Wi-Fi network broadcast by the Sky-Watcher Wi-Fi Adapter. The network name typically starts with "SynScan\_WiFi\_".
3. **Launch the App:** Open the SynScan or SynScan Pro app. The app should automatically detect and connect to the Wi-Fi adapter and your telescope mount.
4. **Initial Alignment:** Follow the on-screen instructions within the app to perform the initial alignment of your telescope mount. This is crucial for accurate GoTo functionality.



Figure 3.1: Example of the SynScan Pro app interface.

This image displays a smartphone screen showing the SynScan Pro application. The interface includes icons for "Alignment," "Celestial Objects," "Deep Sky," "Utilities," "User Objects," "Settings," and "Advanced." Below these, there is a directional keypad for manual control of the telescope, with arrows for movement and a central '5' button, likely for speed control.

## 4. OPERATING INSTRUCTIONS

Once connected, the SynScan app provides comprehensive control over your telescope mount. Here are some common operations:

- **GoTo Functionality:** Use the app's celestial object database to select and automatically slew your telescope to desired stars, planets, galaxies, and other deep-sky objects.
- **Manual Control:** Utilize the on-screen directional buttons to manually adjust the telescope's position for fine-tuning or exploring.
- **Tracking:** Ensure tracking is enabled in the app to keep celestial objects centered in your eyepiece as they move across the night sky.
- **Settings:** Access various settings within the app to adjust tracking rates, backlash compensation, and other mount parameters.
- **Firmware Updates:** Periodically check the Sky-Watcher website or the app for firmware updates for your mount and Wi-Fi adapter to ensure optimal performance and access to new features.

## 5. MAINTENANCE

The Sky-Watcher Wi-Fi Adapter requires minimal maintenance to ensure its longevity and reliable operation:

- **Cleaning:** Wipe the adapter unit with a soft, dry cloth. Do not use liquid cleaners or solvents, as they may damage the electronics.
- **Storage:** When not in use, store the adapter and cables in a dry, cool place, away from direct sunlight and extreme temperatures.

- **Cable Care:** Avoid bending or crimping the connection cables excessively, as this can damage the internal wires.
- **Environmental Protection:** The adapter is not waterproof. Protect it from moisture, rain, and heavy dew.

## 6. TROUBLESHOOTING

If you encounter issues with your Sky-Watcher Wi-Fi Adapter, please refer to the following common problems and solutions:

| Problem                                      | Possible Cause                                                             | Solution                                                                                                                                                     |
|----------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot connect to Wi-Fi network.             | Adapter not powered; incorrect cable; Wi-Fi disabled on device.            | Ensure mount is powered on. Verify correct cable is used and securely connected. Check device Wi-Fi settings.                                                |
| App does not detect mount.                   | Incorrect app version; mount not properly connected; mount firmware issue. | Ensure you are using the official SynScan or SynScan Pro app. Recheck all cable connections. Consult Sky-Watcher support for mount firmware troubleshooting. |
| Telescope movement is erratic or inaccurate. | Poor alignment; environmental factors; mount issues.                       | Perform a precise initial alignment. Ensure the mount is level and stable. Check for any obstructions or excessive wind.                                     |
| App crashes or freezes.                      | Outdated app; device compatibility; insufficient device resources.         | Update the SynScan app to the latest version. Ensure your device meets the app's minimum requirements. Close other background applications.                  |

If the problem persists, please contact Sky-Watcher customer support for further assistance.

## 7. SPECIFICATIONS

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Brand                            | Sky-Watcher                                        |
| Model Number                     | SW1240010464                                       |
| Main Unit Dimensions (L x W x H) | 4.8 x 3.8 x 2.5 cm                                 |
| Main Unit Weight                 | Approx. 30 g                                       |
| Package Dimensions               | 14.8 x 10.5 x 8 cm                                 |
| Package Weight                   | 90 g                                               |
| Compatible Devices               | Smartphones (Android/iOS)                          |
| Mount Compatibility              | Sky-Watcher GOTO Alt-Azimuth and Equatorial Mounts |
| Batteries Included               | No (Powered by mount)                              |

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Sky-Watcher website or contact your local Sky-Watcher distributor. Keep your proof of purchase for warranty claims.

*Note: Specific warranty terms may vary by region.*

