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Sky-Watcher S21205

Sky-Watcher Virtuoso GTI 150P Collapsible Tabletop GoTo Dobsonian Telescope

USER MANUAL

Introduction

The Sky-Watcher Virtuoso GTi 150P is a collapsible tabletop Dobsonian telescope designed for both beginner and experienced observers. It combines portability with powerful light-gathering capabilities, featuring built-in Wi-Fi for GoTo control via the SynScan Pro app. This manual provides comprehensive instructions for setting up, operating, and maintaining your telescope to ensure optimal performance and enjoyment of celestial observation.

What's in the Box

- Virtuoso GTi base and mount assembly
- Optical tube assembly
- Red dot finder
- 25mm Super eyepiece
- 10mm Super eyepiece

Key Features

- 150mm aperture for bright, bold views
- Fast f/5 optics for increased light gathering power
- 750mm focal length perfect for viewing the Moon, planets, galaxies, and nebulae
- Built-in Wi-Fi and full GoTo performance via the SynScan Pro app
- Patented Freedom Find technology uses dual encoders to allow manual control while retaining alignment

Setup Guide

1. Unpacking and Initial Inspection

Carefully remove all components from the packaging. Inspect each part for any signs of damage. Keep the original packaging for future storage or transport.

2. Assembly

The Virtuoso GTi 150P is designed for quick assembly. Place the Virtuoso GTi base and mount assembly on a stable, level surface. Extend the optical tube assembly by gently pulling the upper section upwards until it locks into place. Secure the optical tube to the mount using the provided fasteners. Insert the red dot finder into its bracket and attach it to the optical tube. Finally, insert your desired eyepiece (e.g., 25mm for wider views) into the focuser.



Image: All components of the Sky-Watcher Virtuoso GTi 150P telescope, including the base, optical tube, red dot finder, and two eyepieces, laid out for assembly.

3. Powering the Telescope

The Virtuoso GTi 150P requires 1 CR123A battery (included) for operation. Locate the battery compartment on the mount assembly and insert the battery, ensuring correct polarity. Alternatively, the telescope can be powered via an external 12V DC power supply (not included) for extended use.

Operating Your Telescope

1. Connecting via Wi-Fi and SynScan Pro App

Download the free Sky-Watcher SynScan Pro app from your device's app store (iOS or Android). Power on the telescope. On your smartphone or tablet, connect to the Wi-Fi network broadcast by the telescope (usually named "SynScan_xxxx"). Open the SynScan Pro app and follow the on-screen prompts to connect

to your telescope.

2. GoTo Functionality and Alignment

For accurate GoTo performance, the telescope requires alignment with the night sky. The SynScan Pro app offers several alignment methods (e.g., Brightest Star Alignment, Two-Star Alignment). Follow the app's instructions to select and perform an alignment. Once aligned, you can select objects from the app's extensive database (over 10,000 objects including Messier, NGC, IC, and Caldwell catalogs), and the telescope will automatically slew to them.

3. Manual Control (Freedom Find™)

The Virtuoso GTi 150P features patented Freedom Find™ technology. This allows you to manually move the telescope to point at objects without losing its GoTo alignment. Simply disengage the clutches (if applicable) or gently move the optical tube by hand. The internal encoders will track the telescope's position, and the GoTo system will remain calibrated for subsequent automated slews.

4. Observing with Eyepieces

Start with the 25mm eyepiece for a wider field of view, making it easier to locate objects. Once an object is centered, you can switch to the 10mm eyepiece for higher magnification. Use the focuser knob to achieve a sharp image. For optimal viewing, allow your eyes to adapt to the dark and observe from a location with minimal light pollution.



Image: The Sky-Watcher Virtuoso GTI 150P telescope shown in its fully extended, operational state, ready for observation.

Maintenance

1. Cleaning Optics

Dust on the primary mirror or eyepieces can degrade image quality. Use a soft brush or compressed air to

remove loose dust. For stubborn smudges, use a specialized optical cleaning solution and a microfiber cloth designed for optics. Avoid touching optical surfaces with bare hands.

2. General Care and Storage

When not in use, collapse the optical tube and store the telescope in a dry, dust-free environment. Use the provided dust caps for the optical tube and eyepieces. Avoid exposing the telescope to extreme temperatures or humidity. Periodically check all screws and fasteners to ensure they are secure.



Image: The Sky-Watcher Virtuoso GTI 150P telescope shown in its collapsed, compact state, ideal for storage or transport.

Troubleshooting

- **Telescope not powering on:** Check battery insertion and charge. Ensure external power supply (if used) is correctly connected and functional.
- **GoTo alignment issues:** Ensure the telescope is level. Verify correct date, time, and location settings in the SynScan Pro app. Perform alignment under clear skies with visible bright stars.
- **Blurry images:** Adjust the focuser knob slowly until the image is sharp. Ensure the optical tube is fully extended and locked. Check for condensation or dust on optical surfaces.
- **Wi-Fi connection problems:** Restart the telescope and your smart device. Ensure no other devices are interfering with the Wi-Fi signal.

Technical Specifications

Model Name	Virtuoso GTi 150P
Item Model Number	S21205
Product Dimensions	20 x 20 x 30 inches (Extended)
Item Weight	25.8 pounds
Objective Lens Diameter	150 Millimeters
Optical Tube Length	27 Inches
Telescope Mount Description	Altazimuth Mount
Focus Type	Manual Focus
Finderscope	Reflex
Batteries	1 CR123A battery (included)
Manufacturer	Sky-Watcher USA
Date First Available	August 18, 2022

Warranty and Support

Sky-Watcher products are backed by a manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please visit the official Sky-Watcher website or contact their customer service department.

You can find more information and support resources by visiting the [Sky-Watcher Store on Amazon](#).