

Geo Fennel 534620

Geo Fennel FLG 6X-GREEN Multi-Line Laser Level Instruction Manual

Model: 534620

1. INTRODUCTION

Thank you for choosing the Geo Fennel FLG 6X-GREEN Multi-Line Laser Level. This professional-grade instrument is designed for precise leveling and alignment tasks in various construction and renovation applications. Featuring bright green laser lines, it offers excellent visibility for both indoor and outdoor use. Please read this manual thoroughly before operating the device to ensure safe and efficient use.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury and damage to the device:

- **Laser Radiation:** This product emits Class 2 laser radiation. Do not stare directly into the laser beam. Avoid direct eye exposure.
- **Children:** Keep the device out of reach of children.
- **Operating Environment:** Do not operate the laser level in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Maintenance:** Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- **Battery Safety:** Use only specified batteries and chargers. Do not expose batteries to excessive heat or dispose of them in fire.
- **Storage:** Store the device in a dry, cool place, away from direct sunlight and extreme temperatures.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items listed below are present and in good condition:

- Geo Fennel FLG 6X-GREEN Multi-Line Laser Level
- Rechargeable Battery Pack
- Battery Charger (Power Adapter)
- USB Charging Cable
- Magnetic Wall Mount/Bracket
- Carrying Bag
- Instruction Manual (this document)



Figure 3.1: Contents of the Geo Fennel FLG 6X-GREEN package, including the laser level, carrying bag, battery, charger, cable, and wall mount.

4. PRODUCT FEATURES AND COMPONENTS

The FLG 6X-GREEN laser level is designed for versatility and precision. Key features include:

- **Green Laser Technology:** Provides superior visibility compared to red lasers, especially in bright conditions.
- **Multi-Line Projection:** Capable of projecting multiple horizontal and vertical lines simultaneously for comprehensive coverage.
- **Self-Leveling System:** Automatically levels within a certain range, ensuring accurate measurements.
- **Manual Mode:** Allows for locking the pendulum to project lines at any angle.
- **Robust Design:** Constructed with durable metal and plastic materials for resilience on job sites.



Figure 4.1: The Geo Fennel FLG 6X-GREEN laser level demonstrating its green laser line projection capabilities.

5. SETUP

5.1. Charging the Battery

1. Connect the USB charging cable to the battery charger.
2. Plug the charger into a suitable power outlet.
3. Insert the battery pack into the charging port on the laser level or directly into the charger if it has a dedicated battery slot.
4. Allow the battery to charge fully before first use. The charging indicator light will change color or turn off when charging is complete.

5.2. Positioning the Laser Level

The FLG 6X-GREEN can be positioned in several ways:

- **On a Flat Surface:** Place the laser level on a stable, flat surface. Ensure the surface is relatively level for optimal self-leveling performance.
- **On a Tripod:** The device features a standard tripod thread (usually 1/4" or 5/8"). Mount it securely onto a compatible tripod for adjustable height and precise positioning.
- **Using the Magnetic Wall Mount:** Attach the magnetic bracket to metal surfaces (e.g., steel studs, metal frames). The laser level can then be securely mounted onto this bracket.



Figure 5.1: The laser level positioned on a tripod in a spacious construction environment, projecting multiple green lines.



Figure 5.2: The laser level attached to a metal stud using its magnetic wall mount, demonstrating its versatility for vertical alignment.

6. OPERATING INSTRUCTIONS

6.1. Powering On/Off and Mode Selection

1. **To Power On (Self-Leveling Mode):** Unlock the pendulum by sliding the lock switch to the "ON" position. The laser lines will automatically activate and self-level. If the device is outside its self-leveling range, the laser lines may flash or an alarm may sound. Adjust the device's position until it self-levels.
2. **To Power On (Manual/Locked Mode):** With the pendulum locked (switch in "OFF" position), press and hold the power button for a few seconds. The laser lines will activate, allowing you to project lines at any desired angle without self-leveling. This mode is useful for sloped applications.
3. **To Change Laser Modes:** Briefly press the mode button (often labeled "H" for horizontal, "V" for vertical, or a laser icon) to cycle through different laser line combinations (e.g., horizontal only, vertical only, all lines).
4. **To Power Off:** Slide the lock switch to the "OFF" position. This will lock the pendulum and turn off the laser lines. If in manual mode, briefly press the power button to turn off.

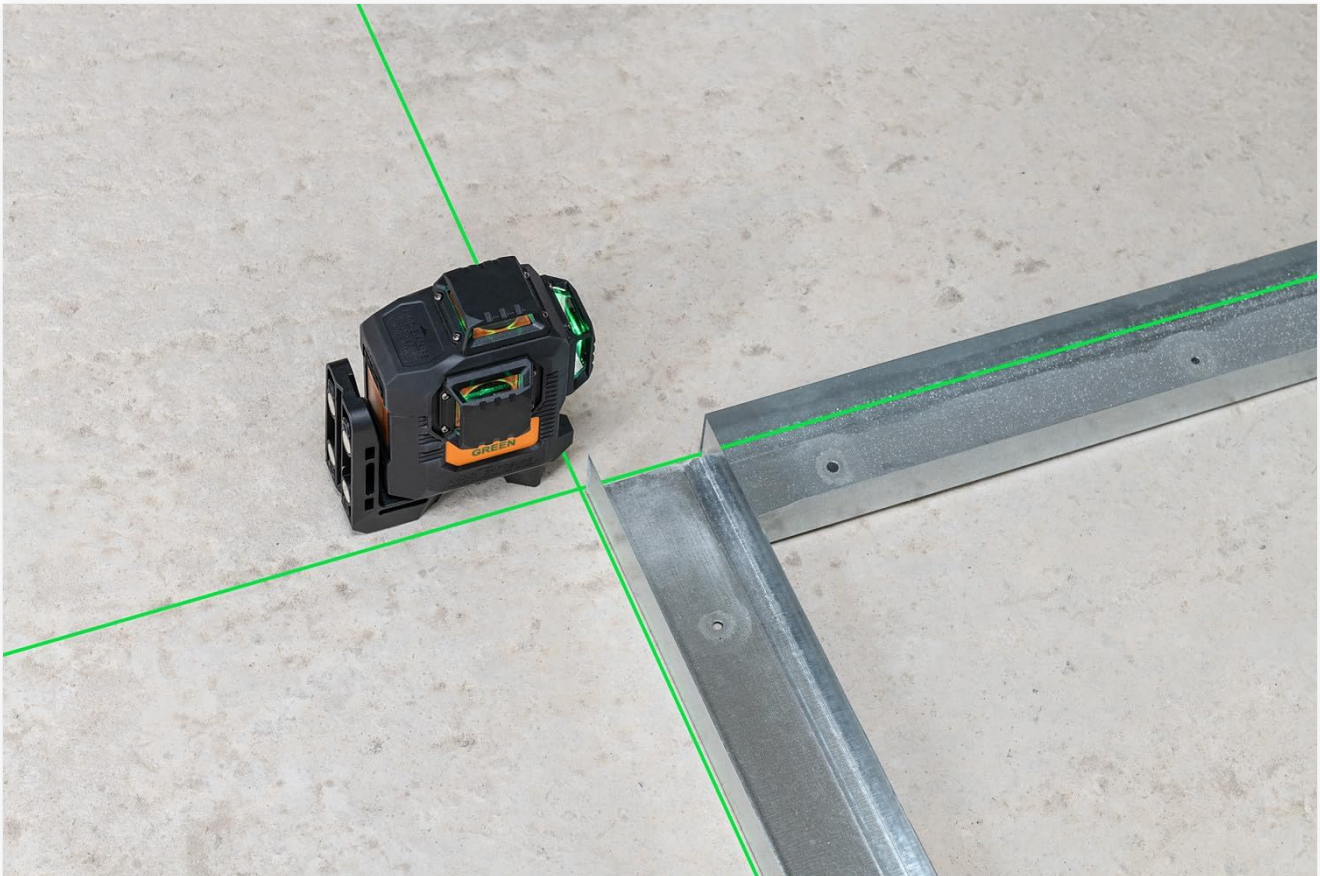


Figure 6.1: The laser level projecting precise green lines on a floor, useful for layout and tiling applications.

7. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents. Ensure the laser apertures are clean and free of dust.
- **Storage:** When not in use, store the laser level in its carrying bag in a dry, cool place. Ensure the pendulum is locked before storage to prevent damage during transport.
- **Battery:** If storing for extended periods, remove the battery pack. Recharge the battery periodically to maintain its lifespan.
- **Calibration:** While the device is factory-calibrated, extreme impacts or prolonged use may affect its accuracy. If you suspect calibration issues, contact Geo Fennel service for professional calibration.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser lines are dim or not visible.	Low battery; excessively bright ambient light; dirty laser aperture.	Recharge battery; use in lower light conditions or with a laser receiver; clean laser aperture.
Laser lines are flashing or alarm sounds.	Device is outside its self-leveling range.	Place the device on a more level surface or adjust its position until it self-levels.
Laser lines are not level/plumb.	Pendulum is locked in self-leveling mode; device is damaged or out of calibration.	Ensure pendulum is unlocked for self-leveling mode; if issue persists, contact service for calibration.
Device does not power on.	Battery is depleted or not inserted correctly.	Charge battery; ensure battery is properly seated.

9. SPECIFICATIONS

Model	FLG 6X-GREEN
Manufacturer	GEO FENNEL
Reference Number	534620
Laser Type	Green Laser
Operation Mode	Automatic (Self-leveling) / Manual
Material	Metal, Plastic
Package Dimensions	24.5 x 17.9 x 0.1 cm
Weight	5 kilograms

10. WARRANTY AND SUPPORT

Geo Fennel products are manufactured to high quality standards. For information regarding warranty coverage, please refer to the warranty card included with your product or visit the official Geo Fennel website. For technical support, spare parts, or service inquiries, please contact your local Geo Fennel distributor or authorized service center. Information on spare parts availability for this specific model is currently unavailable.

Contact Information: Please refer to the Geo Fennel official website or your purchase documentation for the most up-to-date contact details for customer support in your region.