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> GEO FENNEL GEO1X-GREEN Cross-Line Laser User Manual

Geo Fennel 541250

GEO FENNEL GEO1X-GREEN Cross-Line Laser

Model: 541250

INTRODUCTION

The GEO FENNEL GEO1X-GREEN is a high-precision cross-line laser designed for various leveling and alignment tasks in construction, renovation, and DIY projects. It projects bright green horizontal and vertical laser lines, making it ideal for accurate measurements and installations. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your device.

SAFETY INSTRUCTIONS

Always read and understand all safety instructions before operating the device. Failure to follow these instructions may result in injury or damage to the device.

- **Laser Radiation:** This product emits laser radiation. Do not stare directly into the laser beam. Avoid direct eye exposure.
- **Class 2 Laser Product:** Complies with EN 60825-1:2014.
- **Operating Environment:** Use the device in a stable and well-lit environment. Avoid dusty or humid conditions.
- **Battery Safety:** Ensure correct battery polarity. Do not mix old and new batteries. Remove batteries if the device will not be used for an extended period.
- **Maintenance:** Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- **Children:** Keep the device out of reach of children.

PACKAGE CONTENTS

Verify that all items are present in the package:

- GEO1X-GREEN Cross-Line Laser
- User Manual
- (Any included accessories like carrying pouch, batteries, magnetic bracket)

PRODUCT OVERVIEW

Familiarize yourself with the components of your GEO1X-GREEN laser.



Figure 1: Front view of the GEO1X-GREEN laser showing the projected green cross-lines. This image illustrates the primary function of the device, emitting precise horizontal and vertical laser beams for alignment tasks.



Figure 2: Angled view of the GEO1X-GREEN laser, highlighting the main power/mode switch on the side. This view provides a clear look at the device's compact design and accessible controls.

1. **Laser Aperture:** Where the laser beams are emitted.
2. **Power/Mode Switch:** Controls power ON/OFF and switches between laser modes (horizontal, vertical, cross-line).
3. **Battery Compartment:** Located at the rear/bottom for battery insertion.
4. **Mounting Thread:** For attaching to a tripod or magnetic bracket.

SETUP

1. Battery Installation

1. Locate the battery compartment cover, usually on the back or bottom of the device.
2. Open the cover and insert the required batteries (e.g., AA batteries, not included) according to the polarity markings (+/-).
3. Close the battery compartment cover securely.

2. Mounting the Device

The GEO1X-GREEN can be used freestanding or mounted for stability.

- **Freestanding:** Place the device on a flat, stable surface.
- **Tripod Mounting:** Screw the device onto a standard camera or laser tripod using the integrated mounting thread.
- **Magnetic Bracket (if applicable):** Attach the device to a magnetic bracket (sold separately or included) and then secure the bracket to a metallic surface.



Figure 3: The GEO1X-GREEN laser positioned on a tripod in a spacious construction environment, demonstrating its use for establishing level lines across a wide area. The green laser lines are clearly visible on the walls.



Figure 4: The GEO1X-GREEN laser attached to a door frame in a hallway, illustrating its versatility for mounting in various locations to project precise horizontal lines for alignment tasks.

OPERATING INSTRUCTIONS

1. Powering On/Off

- To turn on the device, slide the Power/Mode switch to the "ON" position. The laser lines will immediately project.
- To turn off the device, slide the Power/Mode switch back to the "OFF" position.

2. Self-Leveling Mode

When the device is turned on, it automatically enters self-leveling mode. If the device is placed on a surface that is not level, the laser lines will blink rapidly to indicate that it is out of its self-leveling range. Adjust the position of the device until the laser lines become steady.

3. Switching Laser Modes

Depending on your model, the Power/Mode switch or a dedicated button allows you to cycle through different laser projection modes:

- **Horizontal Line Only:** Projects a single horizontal laser line.
- **Vertical Line Only:** Projects a single vertical laser line.
- **Cross-Line (Horizontal + Vertical):** Projects both horizontal and vertical lines, forming a cross.

4. Manual Mode (Slope Function)

To project a laser line at an angle (e.g., for stair railings), engage the manual mode. This typically involves locking the pendulum by sliding the switch to a specific "locked" or "manual" position. In this mode, the self-leveling function is deactivated, and the laser lines can be tilted to any desired angle.



Figure 5: An individual utilizing the GEO1X-GREEN laser mounted on a tripod to project angled lines along a staircase. This demonstrates the device's capability for manual mode operation, allowing for non-level alignment tasks.

MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents. Ensure the laser aperture is clean for optimal performance.
- **Storage:** Store the device in its original case or a protective pouch in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery Removal:** If the device will not be used for an extended period, remove the batteries to prevent leakage and damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser lines do not turn on.	Batteries are dead or incorrectly inserted. Device is not switched on.	Check battery polarity and replace batteries if necessary. Ensure the Power/Mode switch is in the "ON" position.
Laser lines are blinking rapidly.	Device is out of self-leveling range.	Place the device on a more level surface. If using manual mode, ensure the pendulum is locked.
Laser lines are dim or unclear.	Low battery power. Laser aperture is dirty. Operating in very bright conditions.	Replace batteries. Clean the laser aperture with a soft cloth. Use a laser receiver in bright conditions (if compatible).

Problem	Possible Cause	Solution
Inaccurate measurements.	Device is not level (in self-leveling mode). Device has been dropped or damaged.	Ensure the device is within its self-leveling range (lines are steady). If accuracy issues persist after a fall, contact customer support for calibration.

SPECIFICATIONS

- **Model:** GEO1X-GREEN
- **Part Number:** 541250
- **Laser Color:** Green
- **Laser Class:** Class 2
- **Dimensions (L x W x H):** 18.5 x 14 x 9 cm
- **Weight:** 650 grams
- **Material:** Plastic, Acrylic
- **Power Source:** Batteries (not included)
- **Operating Mode:** Automatic (Self-leveling)

WARRANTY AND SUPPORT

GEO FENNEL products are manufactured to high quality standards. For warranty information, please refer to the warranty card included with your purchase or visit the official GEO FENNEL website. For technical support, spare parts, or service inquiries, please contact your local GEO FENNEL distributor or customer service department.

Please note that information regarding spare parts availability for this specific model is currently unavailable.

