

Firecore FGL-411G

Firecore FGL-411G Green Laser Level Instruction Manual

Model: FGL-411G

1. INTRODUCTION

Thank you for purchasing the Firecore FGL-411G Green Laser Level. This high-precision 5-line green laser level is designed for various construction, DIY, and measurement tasks, offering excellent visibility and accuracy. This manual provides essential information for safe and effective use of your device. Please read it thoroughly before operation and keep it for future reference.

2. SAFETY INFORMATION

This device emits a Class 2 laser beam. Always follow these safety guidelines:

- **DO NOT** stare directly into the laser beam.
- **DO NOT** direct the laser beam at people or animals.
- Use the provided laser goggles to protect your eyes when operating in bright conditions.
- Keep the device out of reach of children.
- Ensure the device is stable before operation to prevent accidental movement.
- Laser Safety Standard: Class 2, Output: Less than 1mW.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Firecore FGL-411G Laser Level x1
- AAA Alkaline Dry Batteries x4
- Rechargeable Lithium Battery x1 (4200mAh)
- Laser Goggles x1
- Dedicated Strap x1
- Laser Target Plate x1
- Dedicated Laser Receiver x1
- Aluminum Case x1
- Japanese Instruction Manual x1



Image: Complete package contents of the Firecore FGL-411G Green Laser Level.

4. PRODUCT FEATURES

- **High Precision Green Laser:** Features a 5-line green laser with an accuracy of $\pm 1\text{mm}/5\text{m}$, offering superior visibility even in bright sunlight.
- **Dual Power Supply:** Operates with a 4200mAh large-capacity lithium battery (up to 12 hours continuous operation) or AAA dry cell batteries. Type-C charging supported.
- **Pulse Mode for Extended Range:** Compatible with a dedicated laser receiver for accurate measurements up to 60m, ideal for large construction sites or low-light conditions.
- **Automatic Self-Leveling & Manual Mode:** Automatically self-levels within $\pm 3^\circ$ in 3 seconds. An alarm indicates when it's out of range. Manual mode allows for use at any angle, perfect for inclined work like stairs.
- **360° Fine Adjustment:** Equipped with a precise fine-tuning knob for 360-degree micro-adjustments, ensuring perfect alignment for detailed tasks.
- **Durable Design:** IP54 dustproof and waterproof rating ensures reliable performance in harsh construction environments. Lightweight and robust for long-term use.
- **Ground Point Projection:** Includes a ground point projection feature for comprehensive measurement applications.

5. SETUP

5.1 Battery Installation

1. Locate the battery compartment on the side of the laser level.
2. Slide the battery compartment cover to open it.
3. Insert the 4200mAh lithium battery or 4 AAA dry cell batteries, ensuring correct polarity.
4. Close the battery compartment cover securely.

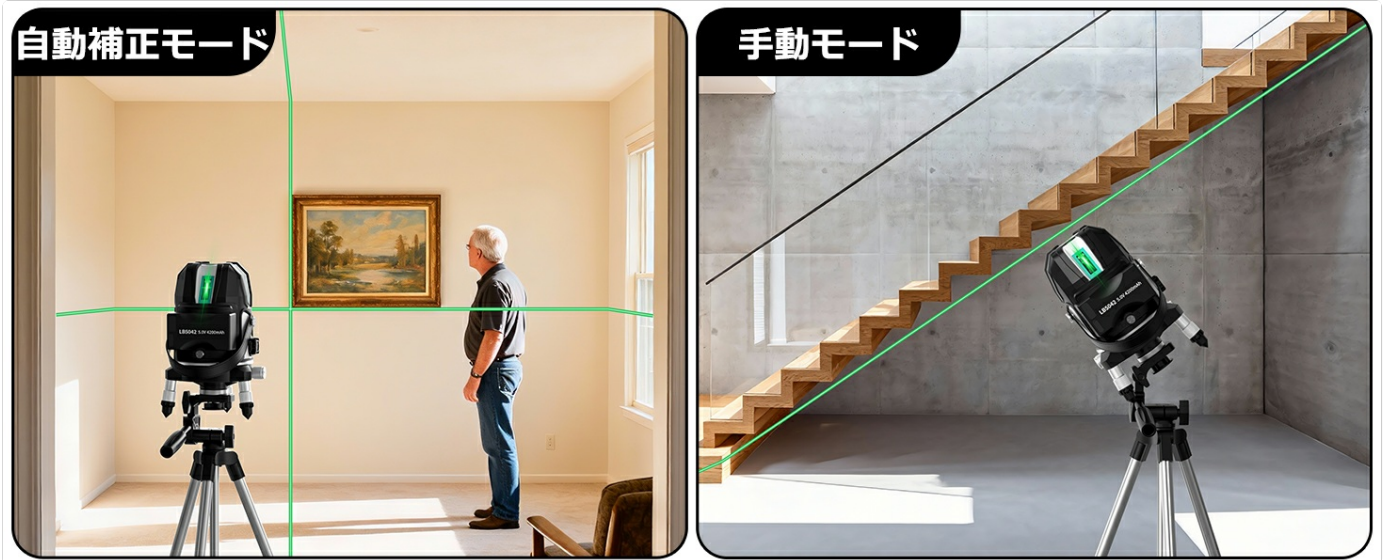


Image: Step-by-step guide for installing the lithium-ion battery.

5.2 Charging the Lithium Battery

Connect the provided Type-C charging cable to the device and a suitable power source. The 4-stage indicator will show the charging status. A full charge allows for extended operation.

視認性に優れたグリーンレーザー採用！



Image: Laser level connected for Type-C charging, displaying battery indicator.

5.3 Mounting the Device

The base of the unit is equipped with a 5/8" screw hole, allowing easy connection to standard laser tripods for stable positioning.



Image: Detail of the 5/8" tripod screw hole and fine adjustment mechanism.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

To power on the device, slide the main switch to the 'ON' position. To power off, slide the switch to 'OFF'.

6.2 Switching Laser Lines

Press the 'H' button to toggle horizontal lines and the 'V' button to toggle vertical lines. You can activate multiple lines simultaneously.



Image: Laser line switching modes and control panel.

6.3 Fine Adjustment

Use the 360-degree fine adjustment knob at the base of the unit for precise positioning of the laser lines after initial setup.

7. MODES OF OPERATION

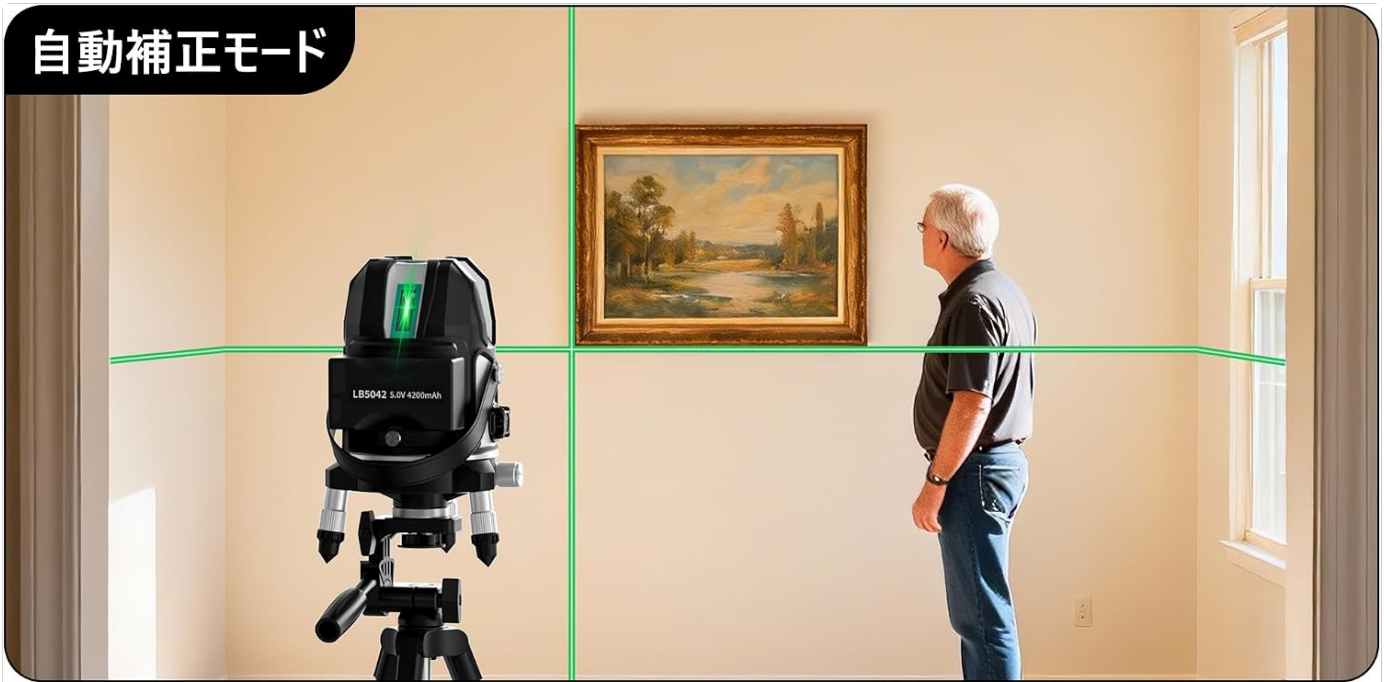
7.1 Automatic Self-Leveling Mode

When the main switch is in the 'ON' position and the pendulum lock is disengaged, the device will automatically self-level within $\pm 3^\circ$ in approximately 3 seconds. If the device is tilted beyond $\pm 3^\circ$, the laser lines will blink as a warning to prevent incorrect measurements.

7.2 Manual Mode (Slope Function)

To activate manual mode, ensure the pendulum lock is engaged (main switch in 'OFF' position, then press and hold the 'H' button for 3 seconds). This allows the laser to be projected at any desired angle, which is ideal for tasks such as installing stair railings or creating sloped lines.

自動補正モード



手動モード



Image: Automatic self-leveling mode (top) and manual mode for angled projection (bottom).

7.3 Pulse Mode

Short press the pulse mode button (often indicated by a receiver icon) to activate pulse mode. This mode increases the laser's visibility range up to 60m when used with the dedicated laser receiver. The receiver provides audible and visual indications for precise line detection, even in bright outdoor conditions or over long distances.

パルスモード付

最大直径60mまでレベル出し可能



Image: Pulse mode in operation, extending measurement range to 60m with a receiver.

8. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the laser level in its aluminum case in a dry, dust-free environment when not in use. Remove batteries if storing for extended periods.
- **Calibration:** If you suspect the accuracy has been compromised, consult the manufacturer or a qualified service center for calibration.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Laser lines are blinking.	Device is out of its self-leveling range ($\pm 3^\circ$).	Place the device on a more level surface.

Problem	Possible Cause	Solution
No laser lines appear.	Batteries are low or incorrectly installed.	Check battery level, recharge lithium battery, or replace AAA batteries. Ensure correct polarity.
Laser lines are dim.	Operating in very bright conditions.	Use laser goggles. Activate pulse mode with the receiver for outdoor use.
Inaccurate measurements.	Device not properly leveled or pendulum locked in self-leveling mode.	Ensure the device is within $\pm 3^\circ$ for self-leveling. Unlock the pendulum for self-leveling mode.

10. SPECIFICATIONS

Feature	Specification
Brand	Firecore
Model Number	FGL-411G
Material	Metal
Color	Green
Product Dimensions (L x W)	19 cm x 9 cm
Product Weight	1 kg
Operation Mode	Automatic
Level Measurement Type	Laser
Laser Class	Class 2
Laser Output	Less than 1mW
Accuracy	$\pm 1\text{mm}/5\text{m}$
Self-Leveling Range	$\pm 3^\circ$
Working Range (with receiver)	Up to 60m
Power Supply	4200mAh Lithium Battery / AAA Dry Cells
Charging Port	Type-C
IP Rating	IP54 (Dustproof & Waterproof)
Origin	China

11. WARRANTY AND SUPPORT

11.1 Warranty Information

This Firecore FGL-411G Green Laser Level comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized repairs, or normal wear and tear.

11.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your Firecore FGL-411G Green Laser Level, please contact Firecore customer support through the retailer where you purchased the product or visit the official Firecore website for contact details.

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