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RockSeed LV1

RockSeed LV1 Cross Line Laser Level User Manual

Model: LV1 | Brand: RockSeed

1. SAFETY INFORMATION

Please read all safety instructions carefully before operating the RockSeed LV1 Cross Line Laser Level. Failure to follow these instructions may result in injury or damage to the device.

- **Laser Radiation:** This product emits Class 2 laser radiation. Do not stare directly into the laser beam. Direct eye exposure can cause eye injury.
- **Avoid Direct Exposure:** Never point the laser beam at people or animals.
- **Children:** Keep the device out of reach of children.
- **Repairs:** Do not attempt to disassemble or repair the device yourself. Repairs should only be performed by authorized service personnel.
- **Environment:** Use the device in a safe working environment. Avoid using it in explosive atmospheres or near flammable materials.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- RockSeed LV1 Cross Line Laser Level
- Canvas Pouch
- 2 x AAA Batteries
- User Manual (this document)



Figure 2.1: Contents of the RockSeed LV1 package.

3. PRODUCT OVERVIEW

The RockSeed LV1 is a compact and versatile cross line laser level designed for various leveling and alignment tasks. It features both self-leveling and manual modes, projecting bright red horizontal and vertical lines.

Key Features:

- **Dual Operating Modes:** Easily switch between self-leveling and manual modes for diverse applications.
- **High Visibility Laser:** Projects clear and distinct red cross lines with a 110° fan angle.
- **Accuracy:** Provides a horizontal line accuracy of ± 2.5 mm and vertical line accuracy of ± 2.5 mm.
- **Durable Design:** IP54 protection against dust and splashes, and tested for 1-meter drop resistance.
- **Versatile Mounting:** Equipped with a 1/4" tripod thread for flexible positioning.



Figure 3.1: RockSeed LV1 Cross Line Laser Level.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the device.
2. Open the cover.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2 Powering On/Off

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

4.3 Mounting the Device

The RockSeed LV1 features a 1/4" thread at its base, allowing it to be mounted on a standard tripod or other compatible mounting accessories (not included). Ensure the device is securely attached before operation.



Figure 4.1: Laser level mounted on a tripod for hands-free operation.

5. OPERATING MODES

The RockSeed LV1 offers two primary operating modes: Self-Leveling Mode and Manual Mode.

5.1 Self-Leveling Mode

In self-leveling mode, the device automatically levels itself within a certain range to project accurate horizontal and vertical lines.

- **Activation:** Slide the power switch to the 'ON' position. The laser will automatically attempt to self-level.
- **Leveling Range:** The device will self-level within a range of $4^\circ \pm 1^\circ$.
- **Out-of-Level Indication:** If the device is tilted beyond its self-leveling range, the laser lines will flash continuously to indicate that it is not level. Adjust the device's position until the laser lines stop flashing and become steady.

5.2 Manual Mode

Manual mode allows the user to project laser lines at any desired angle, disabling the self-leveling function.

- **Activation:** With the device powered off, press and hold the power button for approximately 3 seconds until the laser activates in manual mode. The pendulum will be locked.
- **Usage:** In this mode, the laser lines will not flash even if the device is tilted, allowing for angled projections.



Figure 5.1: Self-Leveling Mode vs. Manual Mode.

6. APPLICATIONS

The RockSeed LV1 laser level is suitable for a variety of indoor applications, including:

- Hanging pictures or shelves
- Installing cabinets or countertops
- Tiling floors or walls
- Wallpapering
- Electrical installations



Figure 6.1: Various applications of the laser level.

7. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and accuracy of your RockSeed LV1 laser level.

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Protection:** The device has an IP54 rating, providing protection against dust and splashing water. However, do not immerse it in water.
- **Drop Protection:** The robust housing provides 1-meter drop protection. While durable, avoid unnecessary drops to maintain accuracy.
- **Storage:** When not in use, store the device in its canvas pouch in a dry, cool place. Remove batteries if storing for extended periods to prevent leakage.



Figure 7.1: Durability features: Dustproof, Waterproof, Shockproof.



Figure 7.2: 1.2 meters drop protection.

8. TROUBLESHOOTING

If you encounter issues with your RockSeed LV1, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Laser lines are flashing	Device is outside its self-leveling range (more than 4° tilt).	Adjust the device's position to be within 4° of level. The lines will become steady when level.
Laser lines are dim or invisible	Bright ambient light conditions.	Reduce ambient light if possible. Red lasers are less visible in bright conditions compared to green lasers.
Device does not power on	Batteries are depleted or incorrectly installed.	Replace batteries with new AAA batteries, ensuring correct polarity.

9. SPECIFICATIONS

Detailed technical specifications for the RockSeed LV1 Cross Line Laser Level:

Feature	Specification
Manufacturer	RockSeed
Model Number	LV1
Product Dimensions	7.5 x 7 x 8 cm
Product Weight	225 g
Batteries	2 AAA (Alkaline, included)
Material	Acrylonitrile Butadiene Styrene
Style	Manual, Manual/Self-leveling
Power Source	Battery Powered
Protection Class	IP54 (Dust and Splash Resistant)
Laser Class	Class 2
Laser Color	Red
Accuracy (Horizontal Line)	±2.5 mm
Accuracy (Vertical Line)	±2.5 mm
Self-Leveling Range	4° ± 1°
Beam Angle	110°
Tripod Thread	1/4"

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The RockSeed LV1 Cross Line Laser Level comes with a **12-month warranty** from the date of purchase. This warranty

covers manufacturing defects and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized repairs, or normal wear and tear.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your RockSeed LV1 laser level, please contact RockSeed customer support through the retailer where you purchased the product or visit the official RockSeed brand store: RockSeed Official Brand Store