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Laserliner 052.305A

LASERLINER Rotary Laser Cubus G 210S User Manual

Model: 052.305A | Brand: Laserliner

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation, setup, and maintenance of your LASERLINER Cubus G 210S Rotary Laser. Please read this manual thoroughly before using the device and keep it for future reference.

The LASERLINER Cubus G 210S is a fully automatic rotary laser designed for precise leveling tasks in construction and excavation. It features green laser technology for enhanced visibility and offers various operating modes including point, scan, rotation, and hand receiver mode. It also supports manual slope setting and remote control operation.

2. PACKAGE CONTENTS

Ensure all items listed below are present in your package:

- Cubus G Rotary Laser
- SensoLite G 210 Laser Receiver
- Lightweight Tripod 150 cm
- Tripod/Wall Mount
- Universal Mount
- Remote Control
- Batteries
- Carrying Strap
- Power Supply/Charger (with international adapters)
- Telescopic Leveling Rod 4m
- Carrying Case



Figure 2.1: Complete package contents of the LASERLINER Cubus G 210S Rotary Laser system.

3. SAFETY INSTRUCTIONS

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

- **Laser Radiation:** Do not stare into the laser beam. Avoid direct eye exposure.
- **Operating Environment:** Use the device in well-ventilated areas. Avoid dusty or humid conditions.
- **Battery Safety:** Use only recommended batteries. Do not mix old and new batteries. Dispose of batteries properly.
- **Maintenance:** Do not attempt to modify or repair the device yourself. Refer to qualified service personnel.
- **Stability:** Ensure the tripod and laser are stable on a level surface before operation to prevent tipping.
- **Automatic Shutdown:** The device features an automatic shutdown function in case of external interference to prevent incorrect measurements.

4. SETUP

4.1 Battery Installation

Insert the provided batteries into the Cubus G rotary laser and the SensoLite G 210 receiver according to the polarity indicators. Ensure the battery compartment covers are securely closed.

4.2 Assembling the Tripod and Mounting the Laser

1. Extend the legs of the lightweight tripod to the desired height and secure them.
2. Place the Cubus G rotary laser onto the tripod's mounting plate.
3. Secure the laser to the tripod using the 5/8" thread connection. Ensure it is firmly attached and level.



Figure 4.1: The Cubus G 210S rotary laser securely mounted on the lightweight tripod.

4.3 Setting up the Leveling Rod

Assemble the telescopic leveling rod. The rod features clear markings for precise height measurements. Adjust the sections to the required length and secure them.



Figure 4.2: Adjusting the telescopic leveling rod for accurate measurements.



Figure 4.3: Detailed view of the leveling rod's millimeter scale for precise readings.

5. OPERATING INSTRUCTIONS

5.1 Powering On and Self-Leveling

Press the power button on the Cubus G. The device will automatically self-level. The green laser technology provides excellent visibility for various applications.



Figure 5.1: The Cubus G 210S features Sensor Automatic and Auto Slope for precise leveling.

5.2 Operating Modes

The Cubus G 210S supports several operating modes:

- **Rotation Mode:** The laser rotates to create a continuous horizontal or vertical plane.
- **Scan Mode:** Creates a visible laser line in a specific adjustable angle.
- **Point Mode:** Projects a stationary laser point.
- **Hand Receiver Mode:** For use with the SensoLite G 210 laser receiver for extended range and outdoor applications.



Figure 5.2: The Cubus G 210S can project a precise 90-degree reference beam for alignment tasks.

5.3 Using the SensoLite G 210 Laser Receiver

For outdoor use or when the laser beam is not visible, use the SensoLite G 210 laser receiver. The receiver detects the laser beam up to a diameter of 200 meters. It provides visual and audible signals to indicate the laser's position.



**LONG
OUTDOOR
RANGE**
200m



Figure 5.3: The SensoLite G 210 receiver extends the working range to 200 meters for outdoor use.



Figure 5.4: The SensoLite G 210 offers fast detection of the laser beam for efficient work.

5.4 Manual Slope Setting

The Cubus G 210S allows for manual setting of slopes. Refer to the device's interface or remote control for specific instructions on adjusting the tilt angle.

5.5 Remote Control Operation

The included remote control allows for convenient operation of all functions up to a maximum distance of 30 meters. This includes changing modes, adjusting scan angles, and activating specific features.

5.6 Tilt Warning Function (ADS Tilt)

The device is equipped with an ADS Tilt warning function. In case of external interference or significant movement, the laser will automatically shut down to prevent incorrect measurements. This ensures accuracy and reliability during operation.



Figure 5.5: The ADS Tilt function automatically stops operation if the device is disturbed, preventing measurement errors.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device and accessories in the provided carrying case in a dry, cool place when not in use.
- **Battery Care:** Remove batteries if the device will not be used for an extended period to prevent leakage.
- **Calibration:** Regular calibration by authorized service centers is recommended to maintain accuracy.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted batteries; incorrect battery installation.	Replace batteries; check battery polarity.

Problem	Possible Cause	Solution
Laser beam is not visible.	Too bright ambient light; device in hand receiver mode; laser output obstructed.	Use SensoLite G 210 receiver; switch to appropriate mode; clear obstruction.
Device shuts down unexpectedly.	Tilt warning activated due to movement or vibration.	Ensure stable setup; restart device after checking stability.
Inaccurate measurements.	Device not level; calibration required; environmental factors.	Ensure proper self-leveling; consider professional calibration; minimize environmental interference.

8. SPECIFICATIONS

Feature	Detail
Model Number	052.305A
Brand	Laserliner
Working Range (with receiver)	200 m diameter
Laser Technology	Green Laser
Tripod Connection	5/8" thread
Remote Control Range	Up to 30 meters
Power Source	Batteries (Alkaline)
Operating Modes	Point, Scan, Rotation, Hand Receiver
Special Features	90° Reference Beam, Manual Slope, Tilt Warning Function (ADS Tilt)
Weight	15 Kilograms (total package weight)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Laserliner website or contact your local distributor. Keep your purchase receipt as proof of purchase for any warranty claims.