

Stabila Stabila - 05700 TR

User Manual

STABILA LAR350 FULLY SELF-LEVELING ROTARY LASER

Model: Stabila - 05700 TR

1. Introduction

The Stabila LAR350 is a fully self-leveling rotary laser designed for precise horizontal and vertical leveling, as well as plumb line applications. This advanced instrument features innovative technologies such as MOTION CONTROL for intuitive operation, DUAL SLOPE for controlled inclination settings, and a robust PROTECTOR system for enhanced durability. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your Stabila LAR350 rotary laser.

Safety Information: Always read and understand all safety warnings and instructions before operating the device. Wear appropriate personal protective equipment, such as laser safety goggles, when operating the laser. Do not stare directly into the laser beam. Keep the device out of reach of children.

2. Package Contents

Verify that all items listed below are present in your package:

- Stabila LAR 350 Rotation Laser
- Stabila REC 300 Digital Receiver
- Stabila RC-LAR350 Remote Control
- 90-degree Angle Rail
- Laser Goggles
- Target Plate
- Carrying Case
- 2 x D 1.5 V Batteries (for laser)
- 4 x AA 1.5 V Batteries (for receiver/remote)
- Stabila 07498 Fixed Head Tripod (39" - 65.5")
- Stabila 07469 Aluminium Two-Piece Elevation Rod



Image: Complete Stabila LAR350 Rotary Laser 9-piece kit, including the laser unit, digital receiver, remote control, tripod, and elevation rod.



Image: All components of the Stabila LAR350 kit laid out, showing the laser, receiver, remote, tripod, elevation rod, laser goggles, and carrying case.

3. Product Overview

Familiarize yourself with the main components and features of the Stabila LAR350 system.

3.1. LAR350 Rotary Laser Unit

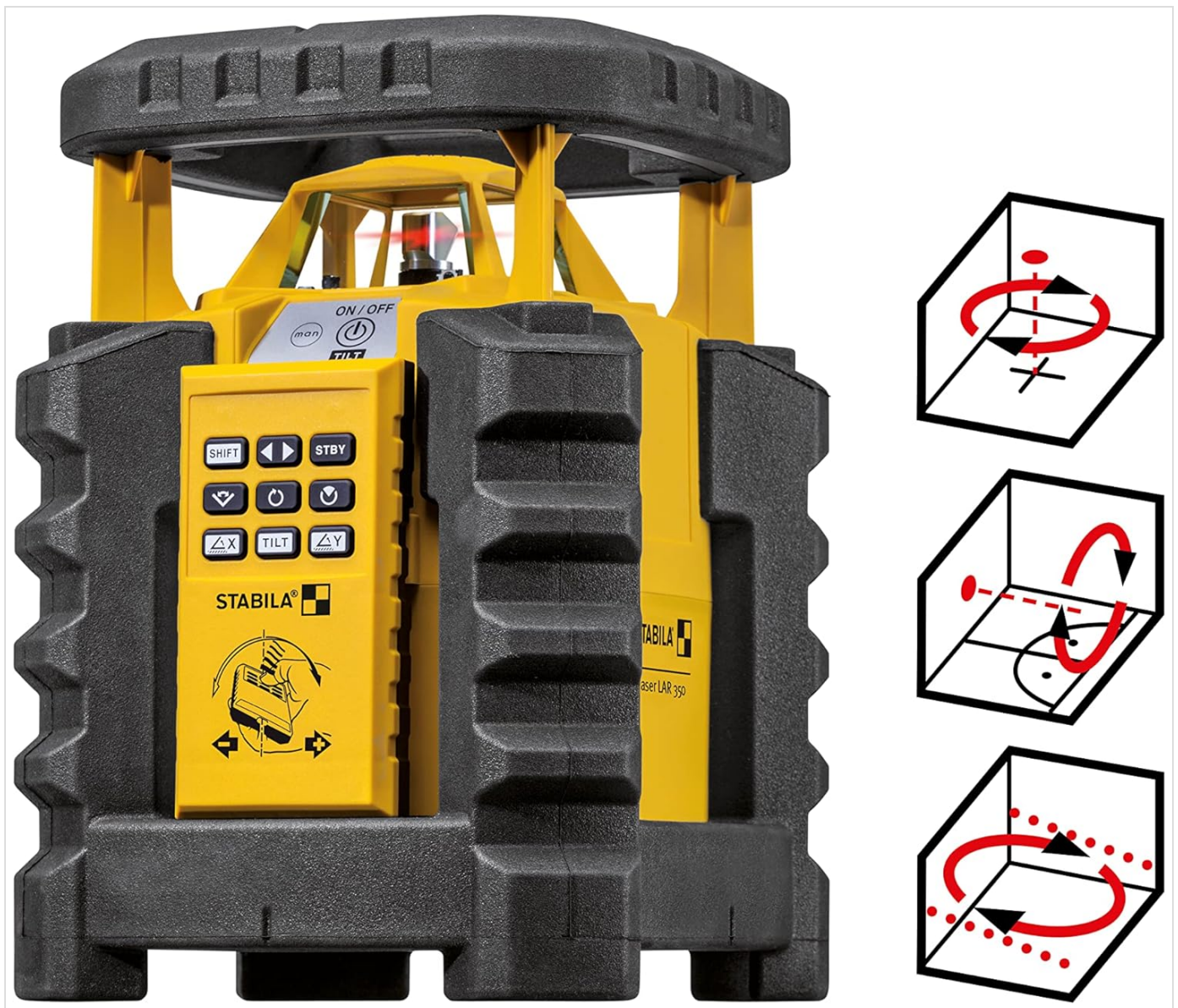


Image: Close-up of the Stabila LAR350 rotary laser unit, highlighting its control panel with buttons for power, shift, standby, axis tilt, and motion control.

- **Control Panel:** Features intuitive buttons for power, mode selection, and axis adjustments.
- **Laser Head:** Emits the rotating laser beam for leveling and alignment.
- **Protector System:** Integrated robust housing designed to protect the laser from impacts and falls, ensuring durability on job sites. The unit is waterproof and dustproof in accordance with IP 65.



» **PROTECTOR SYSTEM:** perfekt geschützt, selbst bei Stürzen des Lasers vom Stativ

Image: The Stabila LAR350 laser unit shown on its side, demonstrating the robust Protector System designed to withstand drops and harsh conditions.

3.2. RC-LAR350 Remote Control

The remote control features revolutionary MOTION CONTROL technology, allowing you to control the laser's functions by hand movements.



» MOTION CONTROL: schnelle und bequeme Bedienung dank Bewegungssteuerung

Image: A hand holding the Stabila RC-LAR350 remote control, illustrating its compact design and control buttons for the laser unit.

3.3. REC 300 Digital Receiver

The REC 300 Digital Receiver extends the working range of the laser up to 2624.67 feet (800m) in diameter, providing precise digital readouts for accurate height determination.

4. Setup

4.1. Battery Installation

The LAR350 laser unit requires 2 x D 1.5 V batteries. The REC 300 receiver and RC-LAR350 remote control require 4 x AA 1.5 V batteries. Ensure correct polarity when inserting batteries.

4.2. Mounting the Laser

Mount the LAR350 laser unit securely onto the provided Stabila 07498 Fixed Head Tripod using the 5/8" - 1 tripod thread. Ensure the tripod is stable on a firm, level surface.

4.3. Power On and Self-Leveling

Press the power button on the LAR350 unit. The laser will automatically begin its self-leveling process. The unit can self-level on surfaces up to ± 5 degrees out of level. LED indicators will assist in confirming the leveling status. Wait for the laser to stabilize before beginning operations.

5. Operating Instructions

5.1. Horizontal Leveling

For horizontal leveling, place the LAR350 unit on a stable surface or tripod. Power on the unit. Once self-leveled, the rotating laser beam will provide a precise horizontal reference plane.

5.2. Vertical Leveling and Plumb Lines

To achieve vertical leveling or plumb lines, position the laser unit on its side or use the vertical mounting accessory (if applicable). The laser will project a vertical plane and/or plumb points.

5.3. DUAL SLOPE Function

The DUAL SLOPE function allows for controlled inclination settings of up to 5 degrees on two axes. This is ideal for applications requiring a specific grade, such as driveways or drainage lines.



» DUAL SLOPE: Neigungseinstellung auf zwei Achsen um bis zu 5°

Image: Diagram illustrating the dual slope capability of the Stabila LAR350, showing how the laser plane can be tilted along two axes for precise grading.

5.4. SECTION MODE

SECTION MODE allows you to limit the working area in rotation mode. The laser beam will only be emitted in a defined area, preventing interference with other equipment or personnel.

5.5. MOTION CONTROL

The innovative MOTION CONTROL feature enables intuitive control of the laser's functions by rotating the RC-LAR350 remote control. The built-in sensor detects your hand movements and transmits them to the laser, simplifying adjustments and alignment.

5.6. Using the REC 300 Digital Receiver

For extended range and precise height readings, use the REC 300 Digital Receiver. Hold the receiver in the path of the laser beam. The digital display will indicate the exact position relative to the laser plane, and audible signals will guide you to the desired level.

5.7. MANUAL ALIGNMENT

The MANUAL ALIGNMENT function allows you to pivot an axis in vertical operation, providing flexibility for specific alignment tasks.

6. Maintenance

Proper maintenance ensures the longevity and accuracy of your Stabila LAR350.

- **Cleaning:** Clean the laser unit, receiver, and remote control with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the laser exit window is clean for optimal beam clarity.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears. Always use fresh, high-quality batteries of the specified type. Remove batteries if the device will not be used for an extended period.
- **Storage:** Store the LAR350 and its accessories in the provided carrying case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Protection:** The integrated PROTECTOR system provides excellent protection against dust and water (IP65 rating). However, avoid unnecessary exposure to harsh conditions.

7. Troubleshooting

Problem	Possible Cause	Solution
Laser not powering on.	Dead or incorrectly installed batteries.	Check battery polarity and replace batteries if necessary.
Laser not self-leveling.	Unit is outside its self-leveling range (+/-5 degrees).	Place the unit on a more level surface.
Laser beam is weak or intermittent.	Low batteries; dirty laser exit window.	Replace batteries; clean the laser exit window.
Remote control not responding.	Remote batteries are low or dead; obstruction between remote and laser.	Replace remote batteries; ensure clear line of sight.
Inaccurate measurements.	Unit not properly leveled; environmental factors (vibration, extreme temperature changes).	Ensure unit is stable and self-leveled; avoid strong vibrations or rapid temperature changes. If issues persist, contact Stabila service.

8. Specifications

Feature	Detail
Model Number	Stabila - 05700 TR
Accuracy	+/-3mm @ 98.4 feet (30 metres)
Laser Class	2
Laser Output	635nM, 1mW
Self-Leveling Range	+/-5 degrees

Feature	Detail
Rotating Speed	0 - 600rpm
Detector Range (Diameter)	2624.67 feet (800m) with REC 300 Digital Receiver
Visible Range	65.6 feet (20m)
Tripod Thread	5/8" - 1
Battery Life	80 hours continuous (with 2 x D 1.5 V alkalines)
Operating Temperature Range	-10 to +60 degrees C
Protection Class	IP 65 (Waterproof and Dustproof)
Power Source	2 x D 1.5 V batteries (included); optional rechargeable batteries (not included)




9. Warranty and Support

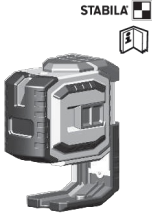


Warranty Information: Specific warranty terms and conditions for the Stabila LAR350 are typically provided with the product packaging or can be found on the official Stabila website. Please refer to these resources for detailed warranty coverage.

Customer Support: For technical assistance, service, or inquiries regarding your Stabila LAR350 rotary laser, please contact Stabila customer service. Contact information can usually be found on the Stabila website or in the product documentation included with your purchase.

You can visit the official Stabila website for more information:www.stabila.com

Related Documents - Stabila - 05700 TR

	<p>STABILA LAR 160 / LAR 160 G Rotary Laser Level User Manual</p> <p>User manual for the STABILA LAR 160 and LAR 160 G rotary laser levels. Includes operating instructions, safety information, functions, technical specifications, and accuracy checks for professional use on construction sites.</p>
	<p>STABILA LAX 600 Series Operating Instructions</p> <p>Comprehensive operating instructions for the STABILA LAX 600 series laser level, covering intended use, unit components, commissioning, functions, LED indicators, bracket usage, accuracy checks, and technical specifications. Includes safety guidelines and operational procedures.</p>
	<p>STABILA LD 220 Laser Distance Meter User Manual</p> <p>Comprehensive user manual for the STABILA LD 220 laser distance meter, covering product overview, instrument setup, technical specifications, message codes, warranty, and contact information.</p>

 <p>STABILA</p> <p>Laser LAX 300 G</p> <p>Operating instructions</p>	<p>STABILA LAX 300 G Laser Level Operating Instructions</p> <p>Comprehensive operating instructions for the STABILA LAX 300 G laser level, detailing its intended use, main components, operating modes, commissioning, calibration checks, and technical specifications.</p>
 <p>STABILA</p> <p>LAR 160 LAR 160 G</p> <p>Operating instructions</p>	<p>STABILA LAR 160 / LAR 160 G Operating Instructions</p> <p>Operating instructions for the STABILA LAR 160 and LAR 160 G rotation lasers, covering intended use, safety, components, commissioning, operating modes, functions, LED indicators, accuracy checks, and technical data.</p>
 <p>STABILA</p> <p>LAR 160 LAR 160 G</p> <p>Navodila za uporabo</p>	<p>STABILA LAR 160 / LAR 160 G Navodila za uporabo - Rotacijski laser</p> <p>Celovita navodila za uporabo za rotacijski laser STABILA LAR 160 in LAR 160 G. Vključuje varnostna opozorila, opis elementov naprave, načine delovanja, funkcije, LED prikaze, preverjanje natančnosti in tehnične podatke.</p>