

STABILA®



How true pro's measure



World's first
MOTION CONTROL



MOTIONCONTROL

LAR 350 rotation laser:

Tough 2-axis inclination laser for best performance
on construction sites

LAR 350 rotation laser with MOTION CONTROL: Welcome to the new age of laser control



The RC-LAR350 remote control with MOTION CONTROL: intuitive control of all laser functions in no time at all

The new LAR 350 rotation laser incorporates many groundbreaking technologies. Its revolutionary features make every measuring task easier, quicker, more effective and even more reliable. The most important innovations for increasing your productivity:

1. MOTION CONTROL: An intuitive remote control with in-built movement sensor. By turning the remote control to the right or left, the movement sensor accelerates or decelerates the chosen laser function. This enables you to intuitively control numerous functions and settings at a measuring range of up to 20 m.

2. LED ASSIST system: The LEDs integrated into the laser housing light up to indicate various functions. The system helps you to monitor the LAR 350 from a distance. This prevents you from having to constantly carry out checks at the site of the laser, saving you time in your day-to-day work.

3. SECTION MODE: The rotating laser beam can be limited to a particular sector. This prevents the beam from interfering with other lasers, causing them to malfunction or visually disturb other professionals working at the site. Multiple lasers can now work on different tasks simultaneously and without hindrance.

For serious professionals: 2-axis inclination laser for all measuring tasks

- 1) Laser beam (up)
- 2) Rotation head
- 3) On / off / tilt and manual mode
- 4) LED ASSIST system
- 5) Locator markings
- 6) Markings for plumb line (downwards)
- 7) Remote control
- 8) STABILA PROTECTOR system
- 9) 5/8" tripod connection thread

Made in Germany



Laser class 2 lasers are not regarded as dangerous in the event of accidental, short-term exposure to the laser beam (exposure time < 0.25 seconds).



Horizontal position

The laser beam rotates horizontally through 360° around its vertical axis.



Vertical position

The laser beam rotates vertically through 360° around its horizontal axis.



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**Ideal for when construction elements
need to be aligned accurately**

**Application example:
Parking level designed with slopes for drainage.**



MOTIONCONTROL

The first laser with MOTION CONTROL

Innovative MOTION CONTROL – quick, reliable and convenient laser operation by rotating the remote control. The in-built sensor detects every hand movement and transmits them using infrared technology up to a distance of 20 m.

Adjustment of axis inclination as shown in the application example can be carried out easily and without increments. Further setting options for the new MOTION CONTROL remote control include rotation speed, size and position of the scanning area when using the line function, or size and position of the actively rotating laser in SECTION MODE.

LED ASSIST system: For visually monitoring the laser from a distance

New LED ASSIST system for easy operation and safety in the workplace. When positioning the laser, integrated LEDs emit a warning when the laser is outside of the levelling range. When using the inclination function, the LEDs indicate which axis is currently tilted or is being tilted. When tilt mode is active, the LED is constantly lit. Flashing LEDs indicate inadvertent shocks and vibrations. Additional indicator lights provide information on the battery and temperature status.



LED ASSIST system with indicators

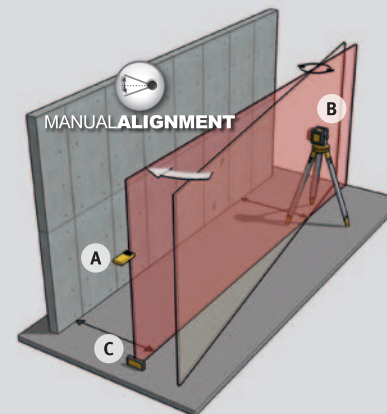


Extremely versatile – the right laser function for each application

The range of functions:

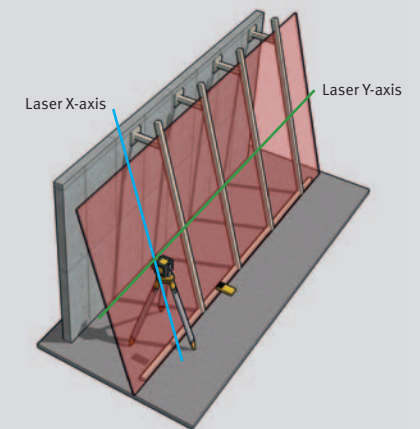
- Tilt function
- SECTION MODE
- Standby mode
- Horizontal and vertical rotation function
- X and Y-axis inclination function (DUAL SLOPE)
- Manual operation
- Line function in scan mode
- Plumb line
- 90° angle

MANUAL ALIGNMENT



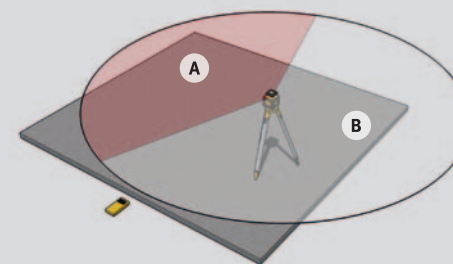
Using the remote control (A), the LAR 350 laser (B) is moved accurately to the REC 300 Digital target point (C).

Vertical inclination of the laser axis



For vertical levelling and marking tasks. The vertical levelling plane can be tilted by up to 5°.

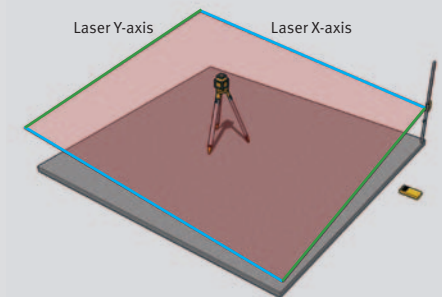
SECTION MODE



Working area which can be limited as required in rotation mode. The laser beam is only emitted in the defined area A – no interference when using multiple rotation lasers at the construction site and no danger of inadvertent interference by third parties.

(A) Laser active (B) Laser inactive

DUAL SLOPE inclination function



Controlled inclination setting – the levelling plane can be tilted by up to 5° on two axes by remote control.

Nothing gets in the way of this laser – not even falls, rain or dust.



STABILA PROTECTOR system

Extremely tough thanks to the STABILA PROTECTOR system that is patented in many countries – perfect protection, even when the laser is dropped from a height of up to 1.80 m*. Set it up again, switch it on and continue measuring with the same precision.

STABILA rain and dust protection

Waterproof and dustproof in accordance with protection class IP 65. Optimum protection for use on construction sites, even in poor weather conditions. The laser can be hosed down and cleaned.

Impact protection from a
max. height of **1.80 m**

* Tested with the tripod falling onto a surface typically found at a construction site.

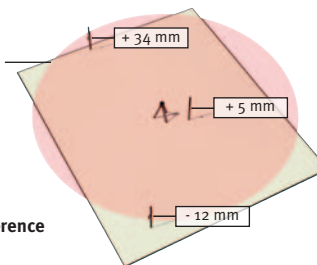
The LAR 350 combined with the REC 300 Digital receiver – because precision is the crucial factor over large distances.



Application example:
levelling concrete.



Working area of
the receiver: up to
Ø 800 m



Number display for reference
deviation in mm.

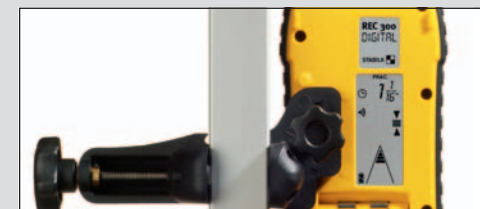
You can determine the deviation from the reference height directly as a number in millimetres from the receiver display. This enables you to correct strut settings and the height of concrete much more quickly and precisely, for example.

The perfect combination of precision and measuring range

- Highly precise rotation laser – levelling accuracy of $\pm 0.1 \text{ mm/m}$.
- The optimum calibration of LAR 350 and REC 300 Digital enables a working area of up to $\text{Ø } 800 \text{ m}$.

REC 300 Digital receiver

- 1) Acoustic signal emitter
- 2) Graded distance symbols
- 3) Accuracy level selector
- 4) Number display for reference deviation in mm
- 5) Accuracy level display
- 6) 80 mm long laser receiver
- 7) Volume selector
- 8) Unit selector



Extremely practical – the second display on the rear.



REC 300 Digital: Waterproof and dustproof in accordance with IP 67.



Application example:
Levelling a levelling layer.

Application example:
Levelling paving
with up to 5° inclination.



Increase productivity and efficiency in every construction phase

Site development / construction trenches / drainage / foundations:

- Determine the slopes of pipes
- Align the corners of buildings, batter boards, construction trenches
- Level concrete floors

Shell construction:

- Determine heights for the concrete formwork of ceilings
- Install system formwork walls
- Level levelling layers
- Check the slopes of ramps
- Align roof constructions
- Mount steel struts accurately

Expansion:

- Level façade cladding and wooden casing
- Align roof cladding and false ceilings
- Insert partition walls

Outdoor installations:

- Determine the shape and height of terrain
- Design parking places
- Define and level terraces
- Measure footpaths

Scope of delivery



LAR 350, 7-piece set

LAR 350 rotation laser, REC 300 Digital receiver, RC-LAR350 remote control, 90° angle rail, laser goggles, target plate, carrying case, 2 x D 1.5 V batteries, 4 x AA batteries

Art. No.: 19019

Optional accessories



9/2017

AE-LAR350 Li-ion rechargeable battery unit

Li-ion rechargeable battery, mains adapter, 4 country-specific interchangeable adapters

Art. No.: 19036

Technical data



Horizontal rotation (scan), plumb line



Vertical rotation (scan), 90° angle



Inclined rotation $\pm 5^\circ$ (scan)

Laser class	2
Output	$< 1 \text{ mW}$
Laser wavelength	635 nm
Self-levelling range	$\pm 5^\circ$
Inclination	$\pm 5^\circ$
Levelling accuracy (horizontal and vertical)	0.1 mm/m
Measuring range of visible line	20 m
Radius of working area for set receiver	$\varnothing 800 \text{ m}$
Operating life	approx. 80 hours
Batteries included	2 x D
Protection class	IP 65