



## **Spot-On SRL200R Rotary Laser 200 Red Operating Instructions**



*The UK's No. 1 Source for Precision Laser Instruments*



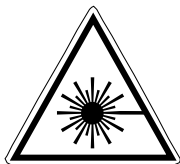
Read the operating instructions and the enclosed brochure „Guarantee and additional notices“ completely. Follow the instructions they contain. This document must be kept in a safe place and if the laser device is passed on, this document must be passed on with it.

## Fully automatic rotary laser with red or green laser technology

- The 90° reference beam is provided to plumb and align partition walls
- Laser modes: spot, scan, rotary and hand receiver mode
- All functions can be controlled remotely.
- Sensolite 110: Laser receiver range up to 100 m radius
- Accuracy 1.5 mm / 10 m, 4° self-levelling range

## General safety instructions

- The device must only be used in accordance with its intended purpose and within the scope of the specifications.



Laser radiation!  
Do not stare into  
the beam!  
Class 2 laser  
< 1 mW · 635 nm  
EN 60825-1:2014

Laser radiation!  
Do not stare into  
the beam!  
Class 2 laser  
< 1 mW · 515 nm  
EN 60825-1:2014

- Attention: Do not look into the direct or reflected beam.
- Do not point the laser beam towards persons.
- If a person's eyes are exposed to class 2 laser radiation, they should shut their eyes and immediately move away from the beam.
- Under no circumstances should optical instruments (magnifying glass, microscope, binoculars) be used to look at the laser beam or reflections.
- Do not use the laser at eye level (1.40 ...1.90 m)
- Reflective, specular or shiny surfaces must be covered whilst laser devices are in operation.
- In public areas shield off the laser beam with barriers and partitions wherever possible and identify the laser area with warning signs.
- Tampering with (making changes to) the laser device is not permitted.
- This device is not a toy - keep out of the reach of children.


## Special product features and functions



The rotary laser aligns itself automatically. It is set to the required initial position (to within an operating angle of  $\pm 4^\circ$ ) and the automatic system then performs the necessary fine adjustment, with three electronic measurement sensors detecting the X, Y and Z axes.



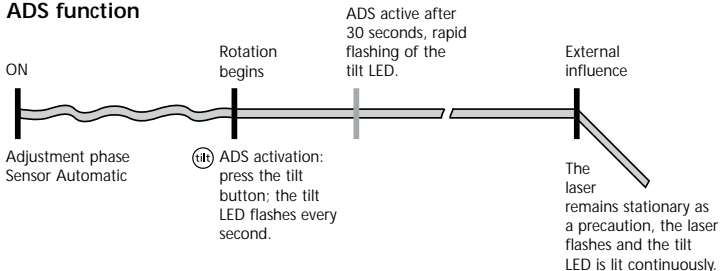
The anti-drift system (ADS) prevents erroneous or inaccurate measurements. How it works: continuous monitoring of the alignment of the laser is activated 30 seconds after the ADS is switched on. If the device moves due to the influence of external factors or the laser loses its height reference, the laser will come to a standstill. Additionally, the laser flashes and the tilt LED is lit continuously. To continue working, press the tilt button again or switch the device off then on again. Erroneous and inaccurate measurements are thus prevented simply and reliably.

 The ADS is not active following switch-on. Once the device has been set up, press the tilt button to activate the ADS, enabling you to protect the laser from changes in position caused by the device being disturbed by external factors. The tilt LED flashes to indicate that the ADS function is active; see the diagram below.



The ADS does not activate the monitoring function until 30 seconds after the laser levelling procedure has been completed (set-up phase). The tilt LED flashes every second during the set-up phase, rapid flashing, when ADS is active.

### ADS function





lock

**Transport LOCK:** The device is protected by a special motor brake during transport.

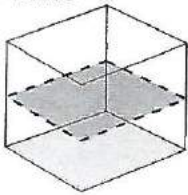


The device characterised by specific protection against dust and rain.

**Space grids:** These show the laser planes and functions.

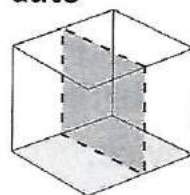
auto: Automatic alignment / man: Manual alignment

auto



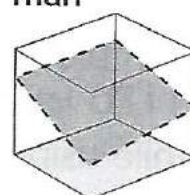
Horizontal  
levelling

auto

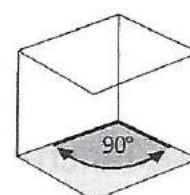


Vertical  
levelling

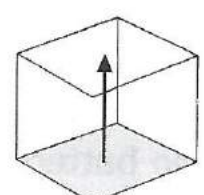
man



Inclined plane



90° angle



90° reference  
function

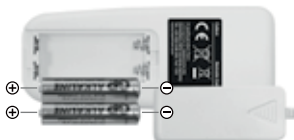
## Battery charging

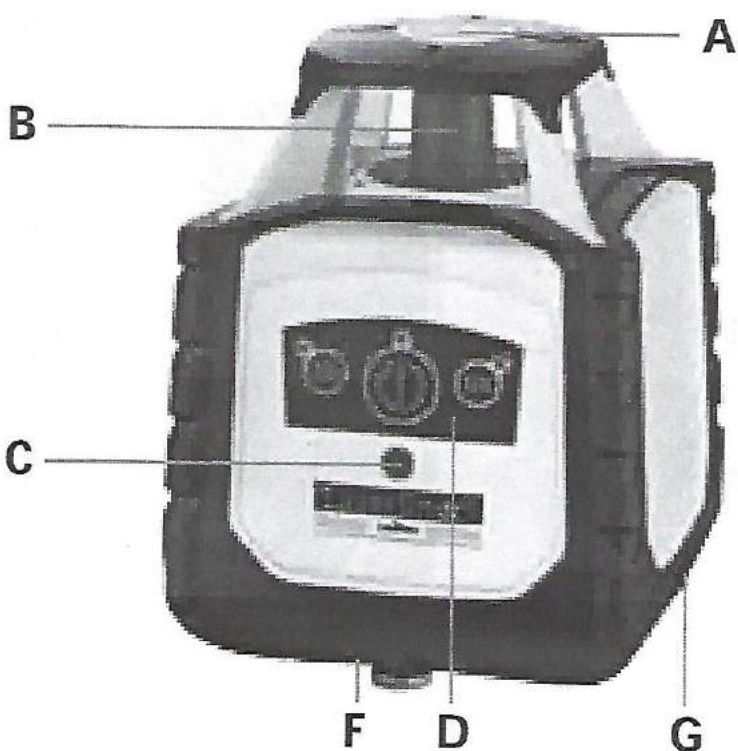
- Charge the device's battery completely prior to use.
- Connect the charger to the mains power supply and the charging socket (G). Please only use the charger supplied; using a different charger will invalidate the warranty.
- When the rechargeable battery is being charged, the LED on the charger (H) lights up red. When the LED changes to green, charging is complete. When the unit is not connected to the charger the power charger's LED lamp (I) will blink.
- The battery can also be charged while using the device.
- The status indicator (4) flashes when the battery charge is low.



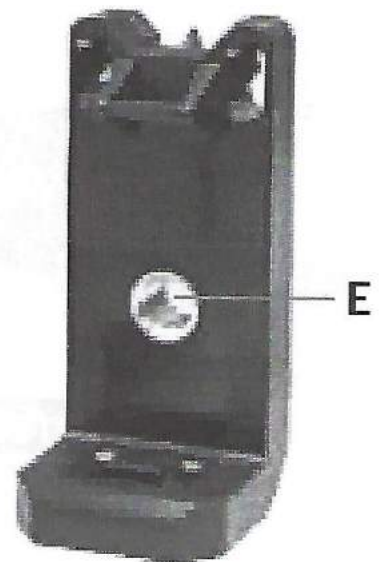
## Insert batteries into the remote control

- Observing the correct polarity.

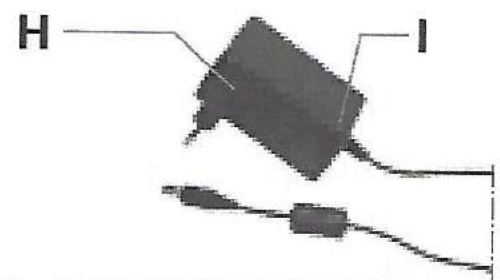
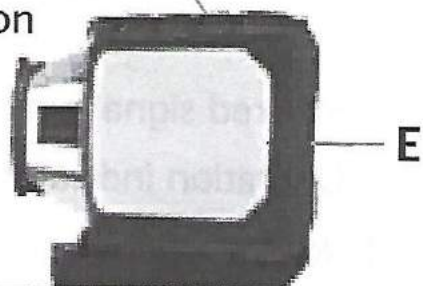




## Stand and wall bracket



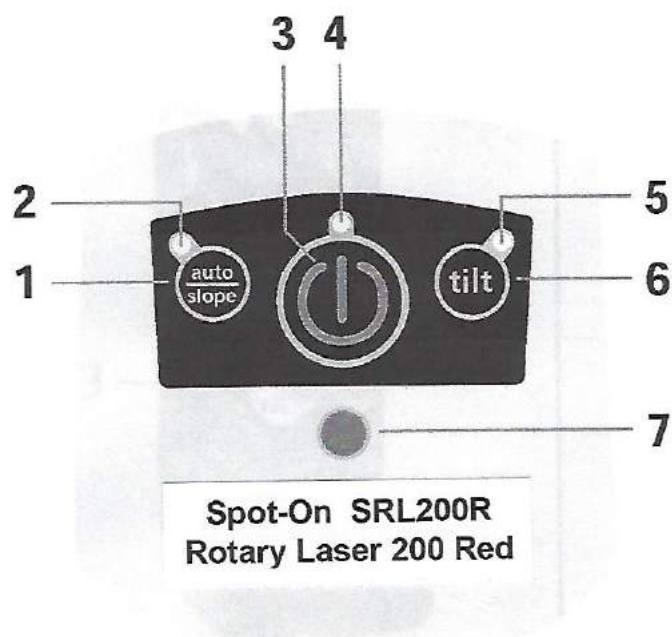
## Vertical operation



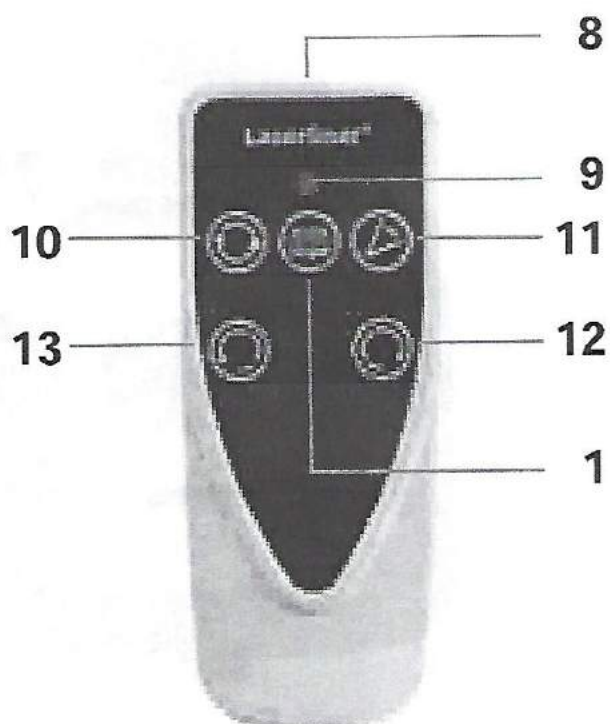
- A** Reference, plumb laser outlet
- B** Prism head / laser beam outlet
- C** Infrared signal receptor
- D** Control panel
- E** 5/8" thread
- F** Battery compartment

- G** Charging socket
- H** Mains unit / charger
- I** Operation indicator  
red: battery is charging  
green: charging process complete

## Control panel



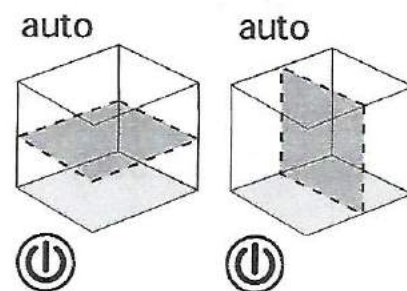
## Remote control



- |  |   |
|--|---|
| 1 auto/slope function  | 8 Infrared signal emitter                               |
| 2 auto/slope function LED:<br>LED off: automatic alignment<br>LED on: manual alignment | 9 Operation indicator                                   |
| 3 ON/OFF button  | 10 Rotary speed for selection<br>600 / 330 / 30 / 0 rpm |
| 4 Operation indicator<br>(LowBat: LED flashes)   | 11 Scan mode<br>10° / 45° / 90° / 180°                  |
| 5 Tilt function LED  | 12 Positioning button<br>(rotate to the right)          |
| 6 Tilt function  | 13 Positioning button<br>(rotate to the left)           |
| 7 Infrared signal receptor   |   |

## Horizontal levelling and vertical levelling

- Horizontal: Position the device on a level surface or on a tripod.
- Vertical: Place the device on its side with the stand and wall bracket fitted. The operator panel should be at the top. The device with the stand and wall bracket can be mounted on a tripod for vertical use.
- Press the „ON/OFF“ switch



auto/slope function LED OFF: Automatic alignment

- The device levels itself automatically to within a range of  $\pm 4^\circ$ . During the set-up phase, the laser flashes and the prism head remains stationary. When levelling is complete, the laser lights up continuously and rotates at maximum speed. Refer also to the sections about „Sensor Automatic“ and „ADS Tilt“.



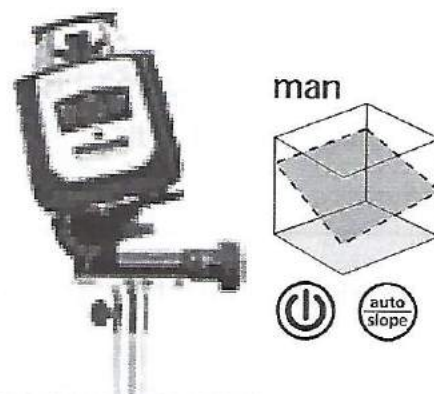
If the device has been placed on a surface with a slope of more than  $4^\circ$ , the prism head will remain stationary and the laser as well as the auto/slop LED will start to flash. The device must then be placed on a more even surface.

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## Slope function

Steeper slopes can be set using the angle plate, which is available as an optional extra.

TIP: Allow the device to align itself automatically and set the angle plate to the zero position. Then press the auto/slope button to switch the automatic sensor off. Finally, incline the device to the angle you require.



Auto/slope function LED ON: Manual alignment

## Laser modes

### Rotary mode

The following speeds can be set using the rotary button: 0, 30, 330, 600 rpm



### Spot mode

You access spot mode by pressing the rotary button repeatedly until the laser stops rotating. The laser can then be positioned exactly at the measuring point by means of the direction buttons.



### Scan mode

The scan button can be used to activate and set a lightintensive segment in 4 different widths. You position the segment via the direction buttons.



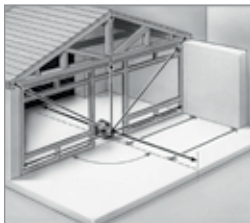
### Hand receiver mode

Working with the laser receiver (available as an optional extra): Set the rotary laser to maximum speed and switch on the laser receiver. Refer to the operating instructions for the respective laser receiver about this.



## Working with the reference/plumb laser

The device has two reference lasers. In horizontal operation these lasers can be used to drop a perpendicular. In vertical operation these reference lasers are used to align the unit. This is done by adjusting the reference lasers parallel to the wall. This aligns the vertical laser plane at a right angle to the wall, see illustration.



**Technical data** (Subject to technical alterations. 07.16)

Self-levelling range	$\pm 4^\circ$
Accurancy	$\pm 1.5 \text{ mm} / 10 \text{ m}$
Horizontal / vertical levelling	Automatic with electronic sensors and servo motors
Self-levelling alignment time	Approx. 30 seconds over the entire operating angle
Vertical reference beams	$90^\circ$ to rotation plane
Rotation speed	0, 30, 330, 600 rpm
Remote control	Infrared IR
Laser wavelengths red / green	635 nm / 515 nm
Laser class red / green	2 (EN60825-1:2014)
Laser output rating red / green	$< 1 \text{ mW}$
Power supply	NiMH battery
Rechargeable battery life red / green	approx. 14 h / approx. 7 h
Battery recharging time	approx. 3 h
Operating temperature red / green	$-10^\circ\text{C} \dots + 50^\circ\text{C} / 0^\circ\text{C} \dots + 50^\circ\text{C}$
Storage temperature	$-10^\circ\text{C} \dots + 70^\circ\text{C}$
Protection class	IP 66
Dimensions (W x H x D)	130 x 160 x 145 mm (with stand and wall bracket)
Weight	1.3 kg (with stand and wall bracket)
<b>Remote control</b>	
Power supply	2 x 1.5 V AAA
Remote control range	max. 30 m (IR-Control)
Weight (incl. battery)	0.07 kg

**EU directives and disposal**

This device complies with all necessary standards for the free movement of goods within the EU.

This product is an electric device and must be collected separately for disposal according to the European Directive on waste electrical and electronic equipment.

