Leica RGR 200

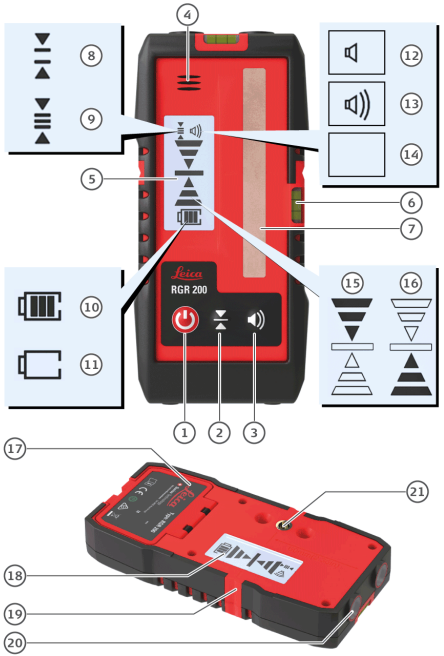


- when it has to be **right**

Leica Geosystems

Overview 2
Technical data 3
Instrument Set-up 4
Operations 5
Care 6
Warranty 7
Safety instructions 8

The Leica RGR 200 is a robust and easy to use laser receiver and can be used with all Leica Lino line lasers with red and green laser lines.



1 ON/OFF key: switch the receiver on/off + illumination

2 Accuracy key: switch sensitivity (±1mm/±3mm)

3 Beeper key: change the sound level of the beeper

4 Beeper

5 Front display

6 Spirit level

7 Detection window

8 Sensitivity: fine ±1 mm (default)

9 Sensitivity: coarse ±3 mm

10 Battery status: full

11 Battery status: low

12 Beep medium

13 Beep high

14 Beep off

15 Move receiver down

16 Move receiver up

17 Battery compartment

18 Back display

19 Reference notch

20 Magnets

21 Bracket thread

Technical data

Description	RGR 200
Working range*	2 m - 80 m (6.6 ft - 262 ft)
Accuracy (switchable)	±1.0 mm (±0.04 in) / ±3.0 mm (±0.12 in)
Detection window	85 mm (3.3 in)
Detection angle	130°
Detectable spectrum	635 nm ±5 nm red / 525 nm ±5 nm green Class 2 (acc. IEC 60825-1)
Illuminated display	Front side and back side
Accustical signal	100 dB / 80 dB / 0 dB
Drop resistant	1.2 m (3.9 ft)
Protection class	IP 65 (IEC 60529) dust and jet water
Battery type/life	2 x AA 1.5 V / 40+ hours
Low power alert	Digital display
Dimensions (L x W x H)	158 x 73 x 26 mm (6.22 x 2.87 x 1.02 in)
Weight with batteries	250 g (0.55 lbs)
Automatic shut-off	30 min without detection
Operating temperature	-10 - +50 °C (+14 - +122 °F)
Storage temperature	-25 - +70 °C (-13 - +158 °F)

* depending on lighting conditions

Introduction

The safety instructions (see Safety Instructions) and the user manual should be read through carefully before the product is used for the first time.

The person responsible for the product must ensure that all users understand these directions and adhere to them.

The symbols used have the following meanings:

WARNING

Indicates a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.

CAUTION

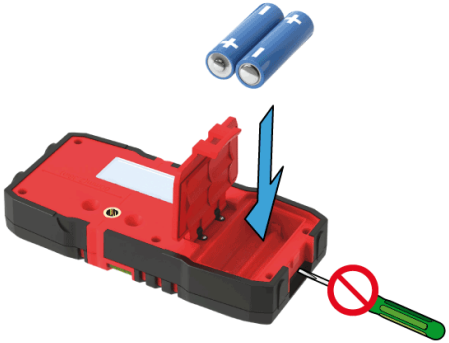
Indicates a potentially hazardous situation or an unintended use which, if not avoided, may result in minor injury and/or appreciable material, financial and environmental damage.

Important paragraphs which must be adhered to in practice as they enable the product to be used in a technically correct and efficient manner.

Alkaline batteries

To ensure a reliable use, we recommend using high quality Alkaline batteries.

Insert Alkaline batteries



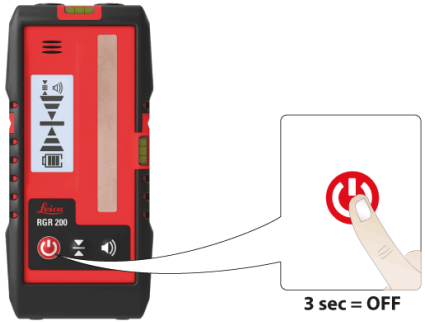
Insert Alkaline batteries in the battery compartment.

Attach bracket

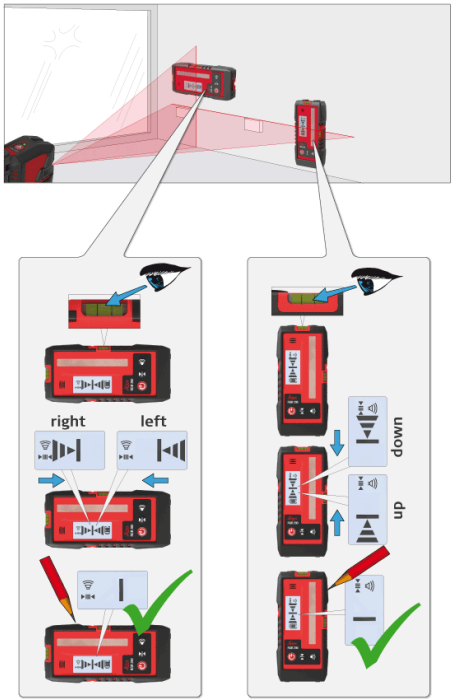


Switching ON/OFF

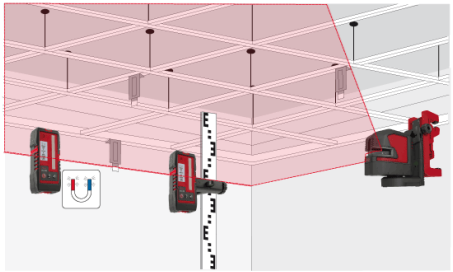




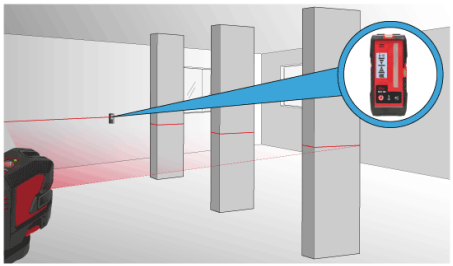
Work vertical and horizontal



Strong attachment



Long range applications



Never immerse the device in water. Wipe off dirt with a damp soft cloth. Never use aggressive cleaning agents or solvents. Treat the instrument with the same care that you would apply to binoculars or a camera. Dropping or violent shaking of the instrument may damage it. Check the instrument for any damage before using it. Check the accuracy of the instrument regularly.

To warranty the best precision please clean the optics of your device regularly. Therefore blow off the dust from the glasses without touching the optics with your fingers. If necessary use a damp soft cloth and a little bit of pure alcohol.

Also clean your adapters regularly. This could be done also by the proposed recommendation. Especially the interface between the adapter and device should always be clean to enable easy attachment. To clean the magnetic surface you could use compressed air or modelling clay.

If the equipment get wet always dry it (max. 70°C/158°F) before repacking it into the case.



International Limited Warranty

The Leica Lino comes with a two year warranty from Leica Geosystems AG. To receive an additional year warranty, the product **must be registered** on our website at http://myworld.leica-geosystems.com **within eight weeks** of the purchase date. If the product is not registered, our two year warranty applies.

More detailed information about the International Limited Warranty can be found on the internet at: www.leica-geo-systems.com/internationalwarranty.

Calibration and repair service

Leica Geosystems recommend to check the device within regular intervals to prove the function and reliability in accordance with standards and requirements. At least one time per year.

In case of damaging your product please never attemp to repair the device yourself.

For calibration or repair service please visit your local dealer or any certified Leica Geosystems distributor.

The person responsible for the instrument must ensure that all users understand these directions and adhere to them.

Areas of responsibility

Responsibilities of the manufacturer of the original equipment:

Leica Geosystems AG
Heinrich-Wild-Strasse
CH-9435 Heerbrugg
Internet: www.leica-geosystems.com

The company above is responsible for supplying the product, including the User Manual in a completely safe condition.

The company above is not responsible for third party accessories.

Responsibilities of the person in charge of the instrument:

1. To understand the safety instructions on the product and the instructions in the User Manual.
2. To be familiar with local safety regulations relating to accident prevention.
3. Always prevent access to the product by unauthorised personnel.

Permitted use

1. Detection of horizontal and vertical laser lines

Prohibited use

1. Using the product without instruction
2. Using outside the stated limits
3. Deactivation of safety systems and removal of explanatory and hazard labels
4. Opening of the equipment by using tools (screwdrivers, etc.)
5. Carrying out modification or conversion of the product
6. Inadequate safeguards at the surveying site (e.g. when measuring on roads, construction sites, etc.)

Noise emissions

⚠ CAUTION

The A-weighted sound pressure level of the signal sound is > 80 db(A) at a distance of one meter. Do not hold the laser receiver directly to your ear!

Hazards in use

⚠ WARNING

Laser receiver should not be used in the vicinity of pacemaker because of integrated magnets which can affect the function of the pacemaker.

⚠ WARNING

Watch out for erroneous measurements if the instrument is defective or if it has been dropped or has been misused or modified. Carry out periodic test measurements. Particularly after the instrument has been subject to abnormal use, and before, during and after important measurements.

⚠ CAUTION

Never attempt to repair the product yourself. In case of damage, contact a local dealer.

⚠ WARNING

Changes or modifications not expressively approved by Leica Geosystems/manufacturer for compliance could void the user´s authority to operate the equipment.

Limits of use

Refer to section Technical data. The instrument is designed for use in areas permanently habitable for humans. Do not use the product in explosion hazardous areas or in aggressive environments. The instrument is not designed for the detection of laser points. The result will deviate from the specified accuracy.

Disposal

CAUTION

Flat batteries must not be disposed of with household waste. Care for the environment and take them to the collection points provided in accordance with national or local regulations.



The product must not be disposed with household waste. Dispose of the product appropriately in accordance with the national regulations in force in your country. Adhere to the national and country specific regulations.

Product specific treatment and waste management can be downloaded from our homepage.

Electromagnetic Compatibility (EMC)

WARNING

The device conforms to the most stringent requirements of the relevant standards and regulations. However, the possibility of causing interference in other devices cannot be totally excluded.

FCC statement (applicable in U.S.)

This equipment has been tested and found to comply with the limits for a Class B digital instrument, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna
2. Increase the separation between the equipment and the receiver
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
4. Consult the dealer or an experienced radio/TV technician for help

This instrument complies with part 15 of the FCC rules. Operation is subjected to the following two conditions:

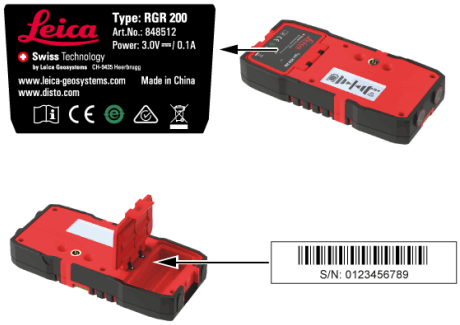
1. This instrument may not cause harmful interference, and
2. this instrument must accept any interference received, including interference that may cause undesired operation.

ISED statement (applicable in Canada)

This instrument complies with Industry Canada license-exempt RSS standard(s). Operation is subjected to the following two conditions:

1. This instrument may not cause harmful interference, and
2. this instrument must accept any interference received, including interference that may cause undesired operation.

Labelling



Subject to change (drawings, descriptions and technical data) without prior notice.