

Geo6-XR GREEN SP

USER MANUAL



Dear customer,

Thank you for your confidence in us having purchased a **geo-FENNEL** instrument.
This manual will help you to operate the instrument appropriately.

Please read the manual carefully - particularly the safety instructions. A proper use only guarantees a
longtime and reliable operation.

geo-FENNEL
Precision by tradition.

Contents

1. Supplied with	A
2. Power supply	B
3. Operating elements	C
4. Operation	D
5. Safety notes	E

A

SUPPLIED WITH

- Line laser Geo6-XR GREEN SP
- Li-Ion battery
- Charger + USB 3.0 Cable
- Battery case for alkaline batteries
- Height adjustable platform
- Wallmount
- Support rail
- 20 mm fix-height adapter with 5/8"
- 3 x Height checking pins
- Magnetic target
- Container
- User manual



FEATURES

- 3 x 360° lines
=> form 6 laser crosses
- Laser lines switchable separately
- Plumbing function
- Minimum laser plane distance to floor 8 mm
- Minimum laser plane distance to wall 6 mm
- Height adjustable platform in a range of 25 to 85 mm
- Wallmount
 - height and side adjustable
 - for wall-hanging with screw / nail
 - strong magnet on back side
 - strap attachment
- Visual and audible alarm when out of level
- Self-levelling function can be locked for manual use
- 5/8" tripod connection (bottom side / with adapter)
- 1/4" tripod connection
- Use with receiver (optional)

Technical data

Self-levelling range	± 3°
Accuracy	±2 mm / 10 m
Working range	
· without receiver	40 m* (radius)
· with receiver (optional)	60 m** (radius)
Power supply / operating time	
· 1 x 360°	15 h / Li-Ion
· 2 x 360°	7 h / Li-Ion
· 3 x 360°	5 h / Li-Ion
Dust / water protection	IP 54
Laser diode / laser class	green / 2
Temperature range	-10°C - +45°C
Dimensions	115 x 96 x 118 mm
Weight	0,8 kg

*depending on the room illumination

**depending on the direction of the laser

B

POWER SUPPLY

ALKALINE BATTERIES

Open the battery compartment cover (4) and remove the alkaline battery box. Insert alkaline batteries (take care of correct polarity!) and insert the box into the battery case. Close the battery compartment cover. In case the ON/OFF LED starts flashing the batteries must be exchanged or the rechargeable battery must be charged.

RECHARGEABLE BATTERY

Open the battery compartment cover (4) and insert the rechargeable battery pack. Close the battery compartment cover.

Take the rechargeable battery off the instrument to charge it. Insert it again when the battery is fully charged.

The ON/OFF LED shows the battery status: if it is flashing the battery power is too weak.

The charger shows the charging status of the instrument as below:

Permanent red light indicates that the battery is being charged.
Permanent green light indicates that the battery is fully charged.

The charger also serves as a permanent power supply. The connection has to be made with socket (5) - see top of page 15).

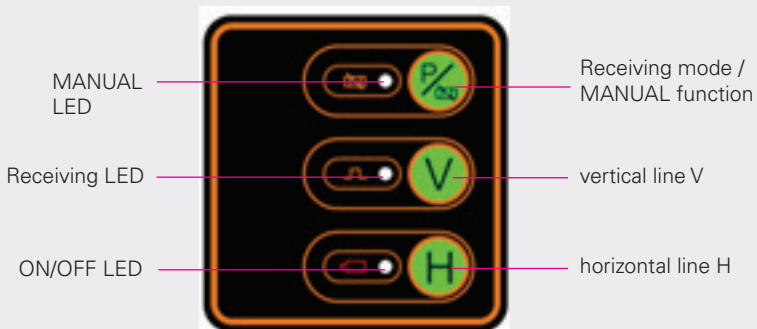
The rechargeable battery will not be charged over this connection!



OPERATING ELEMENTS

C

1. 1/4" thread
2. Vial
3. Keypad
4. Battery compartment cover
5. Connection for permanent power supply
6. Laser emitting window
7. ON/OFF knob (transport lock)



ACCESSORIES

Height adjustable platform

- individually height-adjustable platform in the range of 25 to 85 mm; for height-correct laying of floor tiles

**Wallmount**

- height adjustable with swivel-mounted support rail

**Support rail**

- free-hanging tripod mounting for best line visibility at the floor



20 mm fix-height adapter with 5/8"

- for use on the floor direct
- for connection to a tripod with 5/8"
- fix height: 20 mm from the bottom line to the laser plane



Height checking pins

- checking of floor flatness by use of height-check pins



- Horizontal and vertical levelling with 3 x 360° green laser lines
- Generating right angles everywhere at the floor for straight and diagonal layout of tiles
- Creation and verification of correct flooring height
- Checking planarity at wall and floor

D OPERATION

Setting up the laser:

1. click the laser onto the 20 mm fix-height adapter and align it on the floor
2. click the laser onto the 20 mm fix-height adapter and fix it onto a tripod
3. set the laser onto the height adjustable platform and align it on the floor
4. fix it onto a tripod by means of the support rail
5. fix the magnets of the wallmount onto a magnetic surface (steel plate)
6. set up the laser in a hanging position by means of the hole of the wallmount
7. connect the laser to a column by means of the fixing strap
8. set up the laser on the floor direct



- Minimum laser plane distance to floor 8 mm
- Minimum laser plane distance to wall 6 mm



POWER ON

Power on the laser by turning the ON/OFF knob in position ON. The instrument is now ready for use. An audible and optical (blinking lines) alarm indicates if the instrument was set up outside of the compensator range. Set up the instrument on a more even surface.

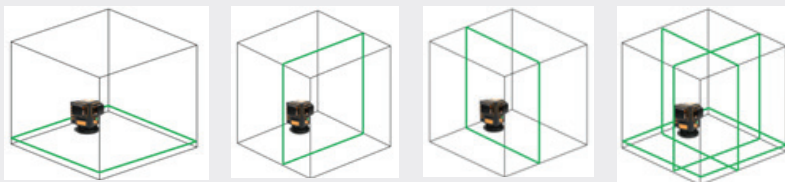
To power the instrument off turn the ON/OFF knob back to the OFF position. The instrument is now powered off.

NOTE:

During transport the ON/OFF knob (compensator lock) must be set to OFF. Disregard may lead to damages of the compensator.



SWITCHABLE LASER LINES



MANUAL FUNCTION

If the instrument is in OFF position press the button MANUAL function to enter into the MANUAL mode; the ON/OFF LED is illuminated, the MANUAL LED is blinking. Now the instrument can be used in slope mode, the compensator alarm is off. All lines can now be switched as in standard mode. Switch off the MANUAL function with the button MANUAL function

USE WITH RECEIVER

To prolong the working range or at unfavourable light conditions Geo6-XR GREEN SP can be used with an optional receiver (not included in this kit).

Switch on the desired laser lines and press the button receiving mode at the laser (the LED for the corresponding lines flashes). The selected laser lines can now be detected by the receiver (the visibility of the laser lines is weaker in this mode).

By use of the receiver the working range can be extended up to 60 meters. For more detailed information please see the user manual of the receivers.

Press the button receiving mode again to quit this mode.

E SAFETY NOTES

SPECIFIC REASONS FOR ERRONEOUS MEASURING RESULTS

Measurements through glass or plastic windows; dirty laser emitting windows; after the instrument has been dropped or hit. Please check the accuracy.

Large fluctuation of temperature: If the instrument will be used in cold areas after it has been stored in warm areas (or the other way round) please wait some minutes before carrying out measurements.

CARE AND CLEANING

Handle measuring instruments with care. Clean with soft cloth only after any use. If necessary damp the cloth with some water. If the instrument is wet clean and dry it carefully. Pack it up only if it is perfectly dry. Transport in original container / case only.

ELECTROMAGNETIC ACCEPTABILITY (EMC)

It cannot be completely excluded that this instrument will disturb other instruments (e.g. navigation systems); will be disturbed by other instruments (e.g. intensive electromagnetic radiation nearby industrial facilities or radio transmitters).

CE-Conformity

The instrument has the CE mark according to EN 61010-1:2001 + corrig. 1+2.

WARRANTY

This product is warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufacturers option), without charge for either parts or labour. In case of a defect please contact the dealer where you originally purchased this product. The warranty will not apply to this product if it has been misused, abused or altered. Without limiting the foregoing, leakage of the battery, bending or dropping the unit are presumed to be defects resulting from misuse or abuse.

EXCEPTIONS FROM RESPONSIBILITY

1. The user of this product is expected to follow the instructions given in the user manual. Although all instruments left our warehouse in perfect condition and adjustment the user is expected to carry out periodic checks of the product's accuracy and general performance.
2. The manufacturer, or its representatives, assumes no responsibility of results of a faulty or intentional usage or misuse including any direct, indirect, consequential damage, and loss of profits.
3. The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster (earthquake, storm, flood etc.), fire, accident, or an act of a third party and/or a usage in other than usual conditions.
4. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data and interruption of business etc., caused by using the product or an unusable product.
5. The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other than explained in the user manual.
6. The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement or action due to connecting with other products.

INTENDED USE OF INSTRUMENT

The instrument emits a visible laser beam in order to carry out the following measuring tasks (depending on the instrument): Setting up heights, horizontal and vertical planes, right angles.

SAFETY INSTRUCTIONS

- Follow up the instructions given in the user manual.
- Do not stare into the beam. The laser beam can lead to eye injury. A direct look into the beam (even from greater distance) can cause damage to your eyes.
- Do not aim the laser beam at persons or animals.
- The laser plane should be set up above the eye level of persons.
- Use the instrument for measuring jobs only.
- Do not open the instrument housing. Repairs should be carried out by authorized workshops only. Please contact your local dealer.
- Do not remove warning labels or safety instructions.
- Keep the instrument away from children.
- Do not use the instrument in explosive environment.
- The user manual must always be kept with the instrument.

LASER CLASSIFICATION

The instrument is a laser class 2 laser product according to DIN IEC 60825-1:2014. It is allowed to use the unit without further safety precautions. The eye protection is normally secured by aversion responses and the blink reflex.

The laser instrument is marked with class 2 warning labels.



Please note:

If you return instruments for repair / for adjustment to us please disconnect batteries or rechargeable batteries from the instrument - this is for safety reasons!
Thank you.

geo-FENNEL GmbH

Kupferstraße 6
D-34225 Baunatal

Tel. +49 561 / 49 21 45

Fax +49 561 / 49 72 34

info@geo-fennel.de

www.geo-fennel.de

All instruments subject to technical changes.



11/2019

Precision by tradition.

geo
F E N N E L