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Laserliner 081.125A SuperCross Laser 2P Cross Line Laser Self Leveling Range Instruction Manual

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Laserliner®

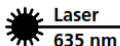


SuperCross-Laser 2P

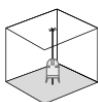
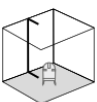
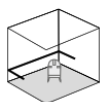
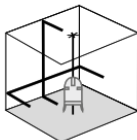
**AUTOMATIC
LEVEL**



lock



1H 1V 2P



! Completely read through the operating instructions, the "Warranty and Additional Information" booklet as well as the latest information under the internet link at the end of these instructions. 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.
The automatic cross-line laser with plumb function and integrated hand-held receiver mode for aligning tiles, wall studding, windows, doors, etc.

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General safety instructions

- The device must only be used in accordance with its intended purpose and within the scope of the specifications.
- The measuring tools and accessories are not toys. Keep out of reach of children.
- Modifications or changes to the device are not permitted, this will otherwise invalidate the approval and safety specifications.
- Do not expose the device to mechanical stress, extreme temperatures, moisture, or significant vibration

Safety instructions

Using class 2 laser



Laser radiation!
Do not stare into the beam!
Class 2 laser
< 1 mW · 650 nm
EN 60825-1:2014

Laser radiation!
Do not stare into the beam!
Class 2 laser
< 1 mW · 635 nm
EN 60825-1:201

- 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

Dealing with electromagnetic radiation

- The measuring device complies with electromagnetic compatibility regulations and limits in accordance with the EMC Directive 2014/30/EU.
- Local operating restrictions – for example, in hospitals, aircraft, petrol stations, or in the vicinity of people with pacemakers – may apply. There is a possibility of a dangerous impact on – or interference with – electronic devices.

Danger – powerful magnetic fields

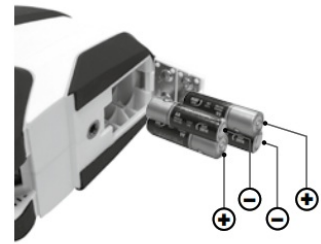
Powerful magnetic fields can adversely affect persons with active medical implants (e.g. pacemakers) as well as electromechanical devices (e.g. magnetic cards, mechanical clocks, precision mechanics, hard disks).

With regard to the effect of powerful magnetic fields on persons, the applicable national stipulations and regulations must be complied with such as BGV B11 §14 "electromagnetic fields" (occupational health and safety – electromagnetic fields) in the Federal Republic of Germany.

To avoid interference/disruption, always keep the implant or device at a safe distance of at least 30 cm away from the magnet.

- Always turn off all lasers and latch the pendulum in place before transporting, ON/OFF switch in its „OFF“ position!

1. Inserting batteries



Open the battery compartment and insert batteries (4 x type AA) according to the symbols. Be sure to pay attention to polarity.

2. Hand receiver mode

Optional: Working with the laser receiver RX Use an RX laser receiver (optional) to carry out leveling at great distances or when the laser lines are no longer visible.

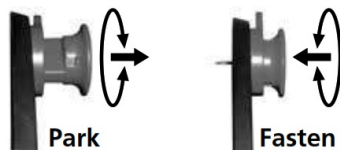
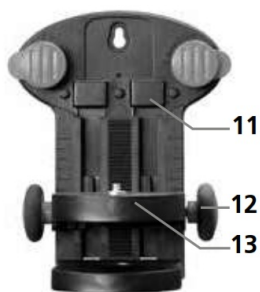
To work with a laser receiver, switch the line laser into hand receiver mode with the Hand receiver mode button. The laser lines will now pulsate with high frequency, making the



laser lines darker. The laser receiver can detect these pulsating laser lines.



- Observe the laser receiver's operating instructions for line lasers. the special pins into their parked position for transport, see illustration below. Otherwise, there is a danger of injury.
- Always rotate

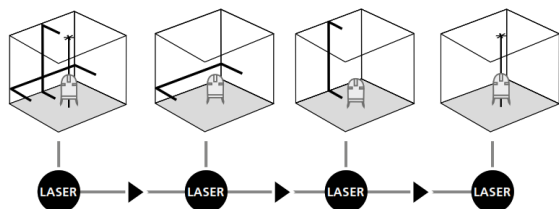


- 1 Laser output windows
- 2 Laser-emitting windows, plumb laser
- 3 1/4" fastening screw
- 4 5/8" tripod threads with threaded bush insert for 1/4" photo-tripod threads
- 5 Special pins for direct attachment to a wall
- 6 ON / OFF switch, transport retainer

- 7 Laser line selection button
- 8 LED Status indicator
- 9 Hand receiver mode
- 10 LED Hand receiver mode
- 11 Holding magnets on the back-side for attachment to magnetic-responsive objects
- 12 Height adjustment knob
- 13 Tripod/wall bracket with 63 mm height adjustment

3. Horizontal and vertical leveling

Release the transport restraint, and set the ON/OFF switch to „ON“. The laser cross and the two plumb lasers appear. The laser lines can be switched individually with the

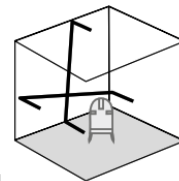


selection button.

! The transport restraint must be released for horizontal and vertical leveling. The laser lines flash and the LED lights red as soon as the device is outside the automatic leveling range of 4°. Position the device such that it is within the leveling range. The LED switches back to green and the laser lines stop flashing (steady light).

4. Slope mode

Do not release the transport restraint, set the ON/OFF switch to „OFF“. Select and switch on the laser with the selection button. Sloping planes can now be measured. This mode



cannot be used to perform horizontal or vertical leveling as the laser lines are no longer aligned automatically. The LED lights are constantly red.

Information on maintenance and care

Clean all components with a damp cloth and do not use cleaning agents, scouring agents, or solvents. Remove the battery(ies) before storing it for longer periods. Store the device in a clean and dry place.

Technical data

(Subject to technical alterations. 09.17)

Automatic leveling range	± 4°
Accuracy	± 0.5 mm / m
Operating range (depending on room illumination)	20 m
Working range with a hand-held receiver	depending on the receiver: 30 to 50 m
Laser wavelength	635 nm
Laser class	2/≤ 1 mW
Power supply	4x 1.5V batteries (type AA, LR6)
Operating time	approx. 25 hours
Operating conditions	0 ... 50°C, Max. humidity 80% RH, no condensation, Max. working altitude 4000 m above sea level
Storage conditions	-10 ... 70°C, Max. humidity 80% RH
Dimensions (W x H x D)	66 x 119 x 124 mm
Weight (without wall bracket and batteries)	0,43 kg

EU directives and disposal

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

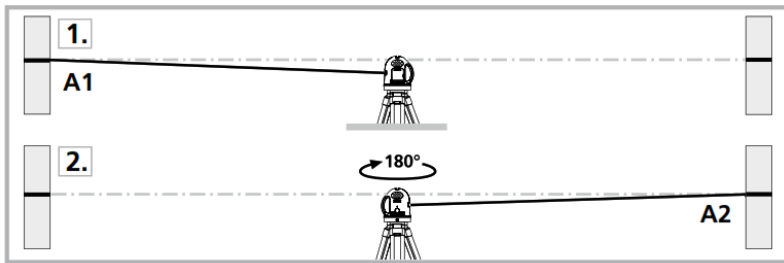
This product is an electric device and must be collected separately for disposal according to the European Directive on waste electrical and electronic equipment.

Further safety and supplementary notices at: <http://laserliner.com/info?an=supcrolas2p>

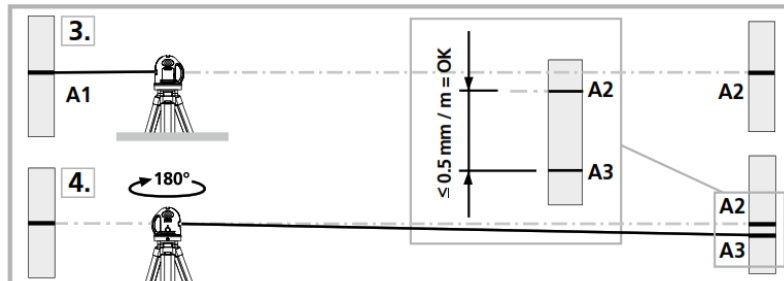
Preparing the calibration check:

It is possible for you to check the calibration of the laser. To do this, position the device midway between 2 walls, which must be at least 5 m apart. Switch the device on (Laser cross ON). The best calibration results are achieved if the device is mounted on a tripod.





1. Mark point A1 on the wall.
2. Turn the device through 180° and mark point A2. You now have a horizontal reference between points A1 and A2.



Performing the calibration check:

3. Position the device as near as possible to the wall at the height of point A1.
4. Turn the device through 180° and mark point A3. The difference between points A2 and A3 is the tolerance.

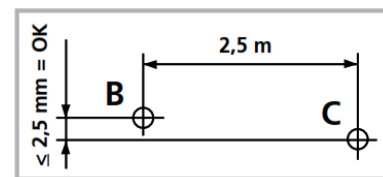


If points A2 and A3 are more than 0.5 mm / m, the device is in need of calibration. Contact your authorized dealer or else the UMAREX-Laserliner Service Department.

Checking the vertical line: Position the device about 5 m from a wall. Fix a plumb bob with a line of 2.5 m length on the wall, making sure that the bob can swing freely. Switch on the device and align the vertical laser to the plumb line. The precision is within the specified tolerance if the deviation between the laser line and the plumb line is not greater than ± 2.5 mm.

Checking the horizontal line:

Position the device about 5 m from a wall and switch on the cross laser. Mark point B on the wall. Turn the laser cross approx. 2.5 m to the right and mark point C. Check whether the



horizontal line from point C is level with point B to within ± 2.5 mm. Repeat the process by turning the laser to the left.



Regularly check the calibration before use, after transport, and after extended periods of storage.



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081.125A, SuperCross Laser 2P, Cross Line Laser Self Leveling Range, SuperCross Laser 2P Cross Line Laser Self Leveling Range, 081.125A SuperCross Laser 2P Cross Line Laser Self Leveling Range

References

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