Laserliner 080 938 Distance Master Compact Plus Reading Range Instruction Manual

Contents

Laserliner

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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.

Function / Application

Laser distance meter with color display

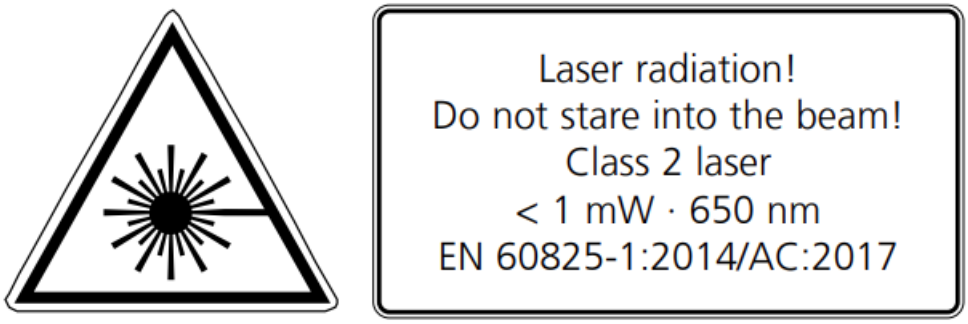
- For measuring length, area, and volume
- Digital Connection interface to transfer the measured data
- Min/Max function for determining diagonals, verticals, and horizontals

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.
- The device must no longer be used if one or more of its functions fail or the battery charge is weak.

- Please ensure compliance with the safety regulations set out by local and national authorities with regard to the correct and proper use of the device.

Safety instructions
Using class 2 lasers



- **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.
- Tampering with (making changes to) the laser device is not permitted.
- Under no circumstances should optical instruments (magnifying glass, microscope, binoculars)

Dealing with electromagnetic radiation

- The measuring device complies with electromagnetic compatibility regulations and limits in accordance with the EMC Directive 2014/30/EU which is covered by the Radio Equipment Directive 2014/53/EU.
- Local operating restrictions – for example, in hospitals, aircraft, petrol stations or in the vicinity of people with pacemakers – may apply. Electronic devices can potentially cause hazards or interference or be subject to hazards or interference.
- The measuring accuracy may be affected when working close to high voltages or high electromagnetic alternating fields.

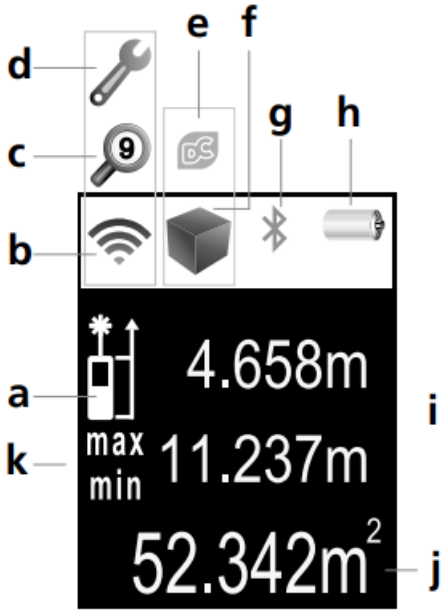
Dealing with RF radiation

- The measuring device is equipped with a wireless interface.
- The measuring device complies with electromagnetic compatibility and wireless radiation regulations and limits in accordance with the RED 2014/53/EU.
- Umarex GmbH & Co. KG hereby declares that the DistanceMaster Compact Plus radio equipment complies with the essential requirements and other provisions of the European Radio Equipment Directive 2014/53/EU (RED). The EU Declaration of Conformity can be found in its entirety at the following address: **http://laserliner.com/info?an=ACG**

DISPLAY

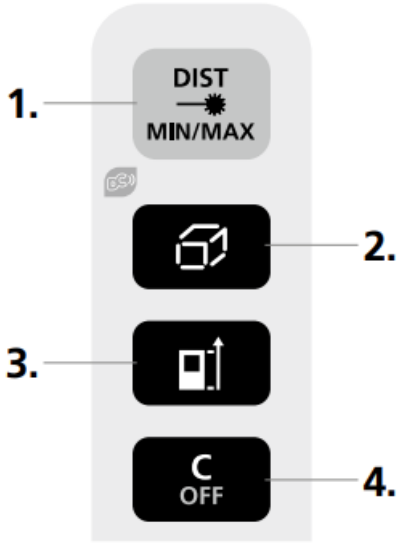
- Measurement point (reference) rear / front

- The bar diagram shows how well-suited the reflection surface is for measurement. This is particularly useful for measuring over long distances, on dark surfaces, or in bright ambient light.
- Memory
- Malfunction / service required Digital Connection function
- Display length / area / volume Digital Conenction function activated
- Battery symbol
- Intermediate values / min/max values
- Measurement values / Measurement results Unit m / ft / inch / _‘ _“
- Min/max continuous measurement



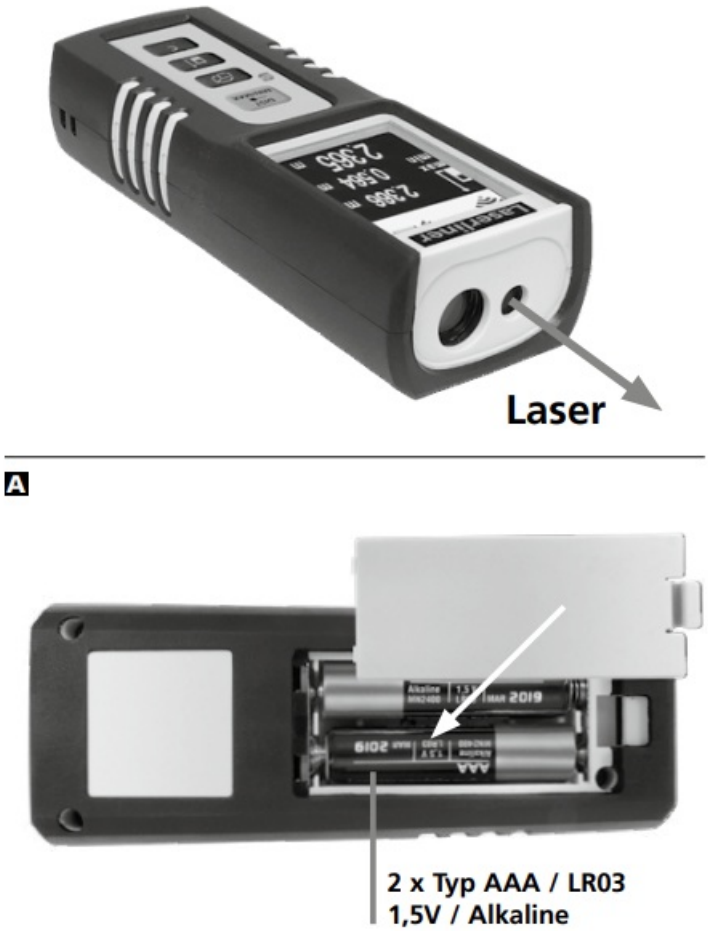
KEYPAD

1. ON / Measure / min/max continuous measurement
2. length, area, volume / Digital Connection function / Memory
3. Measurement point (reference) rear / front / Unit of measure m / ft / inch / _‘ _“ / enable Digital Connection function
4. OFF / delete last measurement values

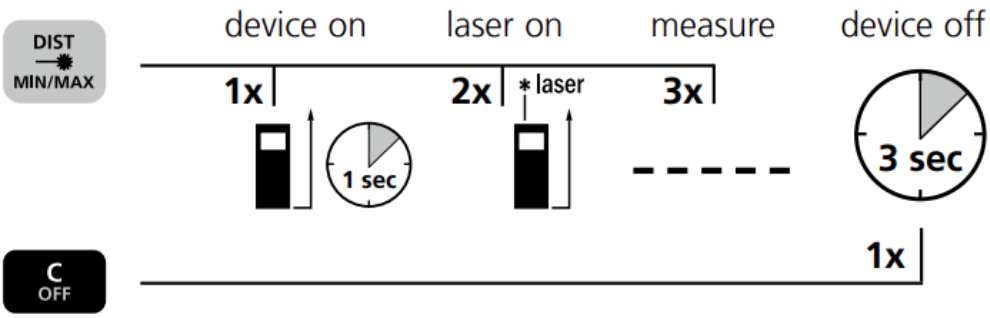


Inserting batteries (see Fig. A)

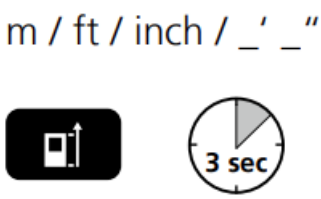
Open the battery compartment and insert batteries according to the symbols. Be sure to pay attention to polarity.



Switch on, measure, and switch off:

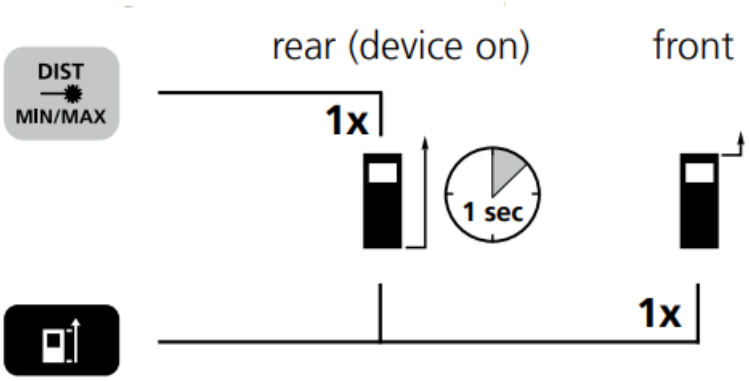


Change unit of measure:

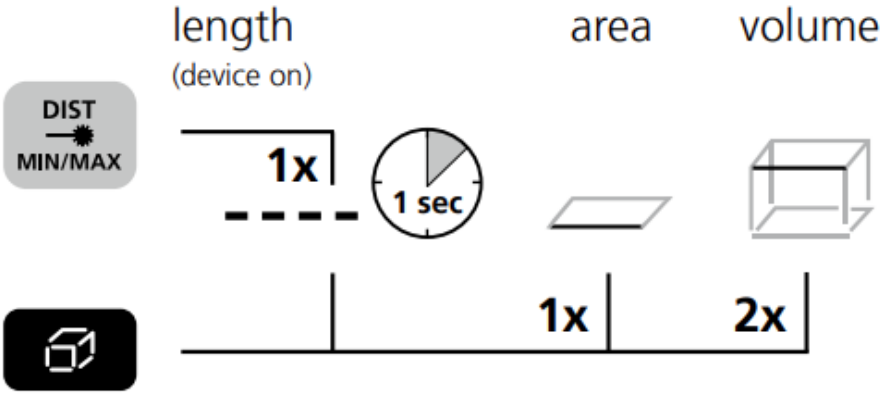


Delete the last measured value:

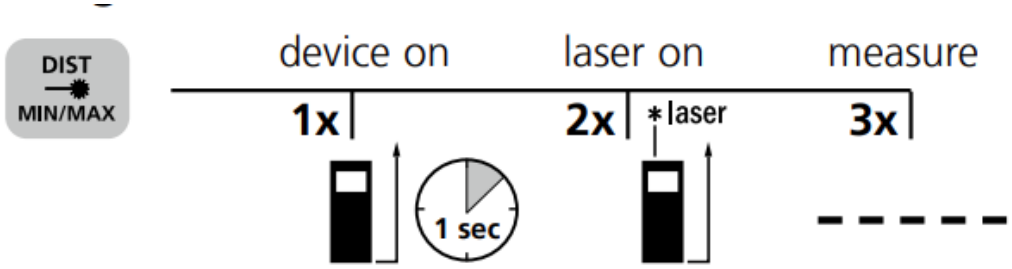
Change measurement point (reference):



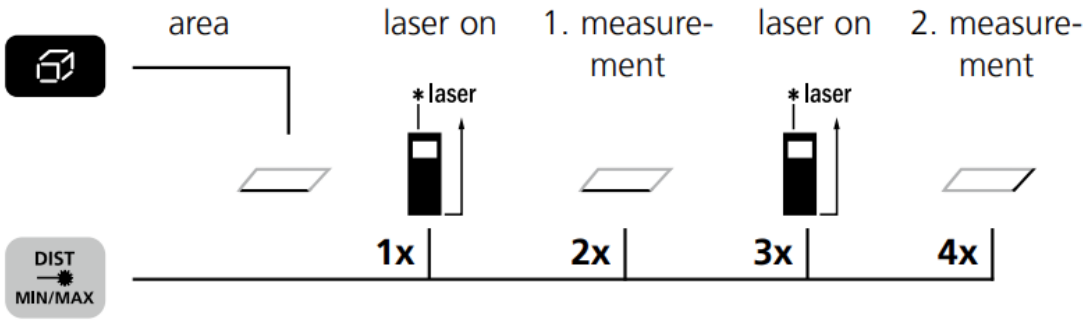
Change measurement function:



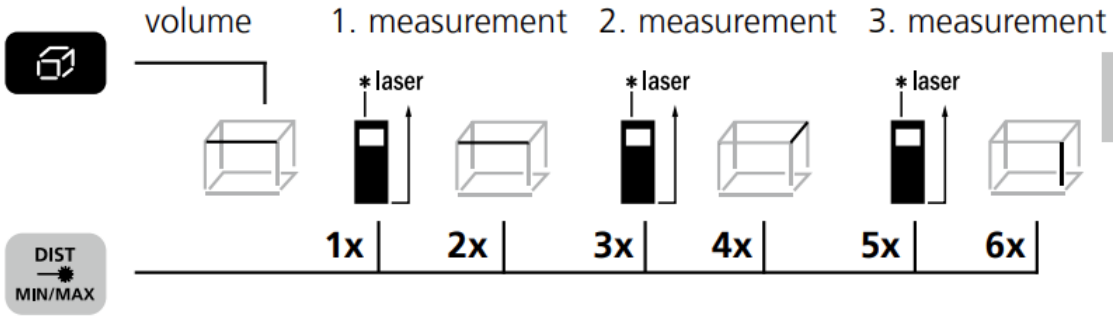
Length measurement:



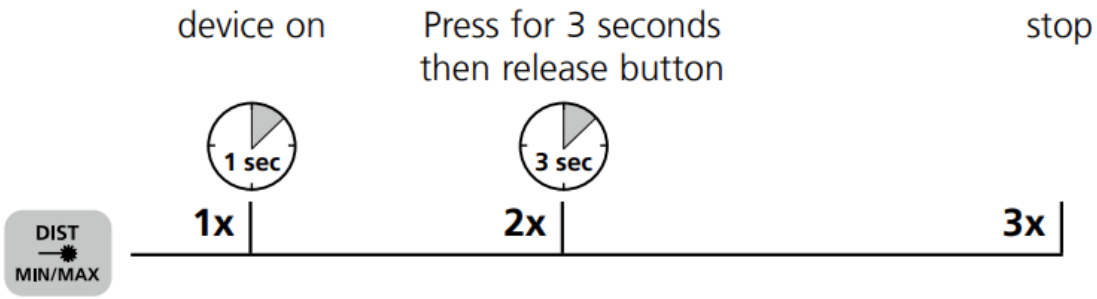
Area measurement:



Volume measurement:



min/max continuous measurement:



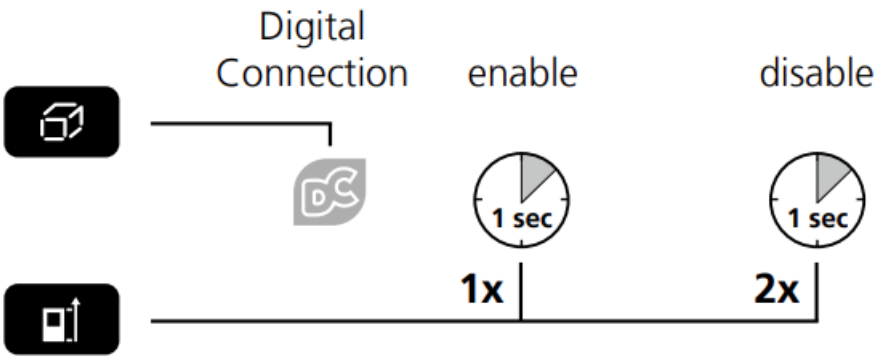
The LC display shows the max value, the min value and the current value.

Data transfer

This device has digital connectivity which allows wireless data transfer to mobile devices such as smartphones or tablets with a wireless interface. The system prerequisites for a digital connection are specified at

http://laserliner.com/info?an=ble This device can generate a wireless connection to devices which are compatible with the wireless standard IEEE 802.15.4. The wireless standard IEEE 802.15.4 is a transfer protocol for Wireless Personal Area Networks (WPAN). The range is set to a maximum distance of 10 m from the terminal device and greatly depends on the ambient conditions such as the thickness and composition of walls, sources of interference as well as the transmit/receive properties of the terminal device.

Enable / disable Digital Connection:



The digital connection is activated as soon as the device is switched on as the wireless system is designed to use very little electricity.

Application (app)

An app is required to use a digital connection. You can download the app from the corresponding stores for the specific type of terminal device:

Download on the App Store GET IT ON Google Play

Note: Make sure that the wireless interface of the mobile device is activated.

After starting the app and activating the digital connection, a connection can be set up between a mobile device and the measuring device. If the app detects several active measuring devices, select the matching device. This measuring device can be connected automatically the next time it is switched on.

Memory function:

Error codes:

- **Err101:** Replace the battery

- **Err104:** Calculation error
- **Err152:** Temperature is too high:> 40°C
- **Err153:** Temperature is too low: <0°C
- **Err154:** Outside the measuring range
- **Err155:** Received signal too weak
- **Err156:** Received signal too strong
- **Err157:** Incorrect measurement or background is too bright
- **Err160:** The device is moving too much to measure.

Important notices

- The laser points to the location that will be measured. No objects may get into the laser‘s line of measurement.
- The device compensates the measurement for different room temperatures. Therefore allow the device a brief adaptation period when changing locations with large temperature differences.
- The device is only conditionally useable in outdoor areas and cannot be used in strong sunlight.
- The measurement results of outdoor measurements may be influenced or falsified by rain, fog and snow.
- In unfavorable conditions, e.g. with poorly reflecting surfaces, the maximum deviation may be greater than 3 mm.
- Carpeting, upholstery or curtains will not reflect the laser optimally. Measure to flat surfaces.
- Measurements made through glass (window panes) can falsify measurement results.
- An energy-saving function switches the device off automatically.
- Clean with a soft cloth. Water may not be allowed to penetrate the housing.

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

Calibration
The meter needs to be calibrated and tested on a regular basis to ensure it produces accurate measurement results. We recommend carrying out calibration once a year.

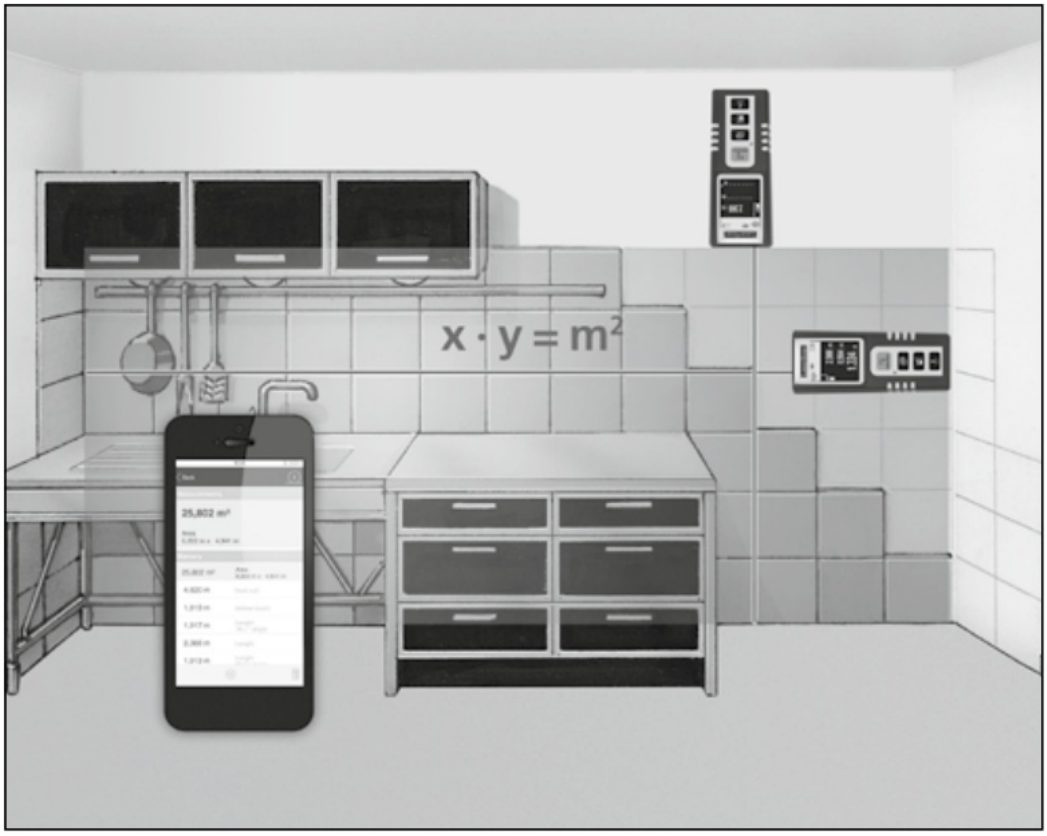
Technical Data

Technical Data (Subject to technical changes without notice. Rev21W32)	
Precision (typical)*	± 2 mm
Measurement range (inside)**	0,1 m – 40 m
Laser class	2 / < 1 mW (EN 60825-1:2014/AC:2017)
Laser wavelength	650 nm
Operating conditions	-10°C … 40°C, max. humidity 80% rH, no condensation, max. working altitude 2000 m above sea level
Storage conditions	-20°C … 70°C, max. humidity 80% rH
Radio module operating data	IEEE 802.15.4. LE ≥ 4.x (Digital Connection) interface; Frequency band : ISM band 2400–2483.5 MHz, 40 channels; Transmission power: max. 10 mW; Bandwidth: 2 MHz; Bit rate: 1 Mbit/s; Modulation: GFSK/FHSS
Automatic switch-off	30 sec laser / 10 min device
Power supply	2 x 1.5V LR03 (AAA)
Dimensions (W x H x D)	43 x 110 x 27 mm
Weight	100 g (incl. batteries)

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=ACG**

DistanceMaster Compact Plus



SERVICE
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Documents / Resources

	Laserliner 080 938 Distance Master Compact Plus Reading Range [pdf] Instruction Manual 080 938 Distance Master Compact Plus Reading Range, 080 938, Distance Master Compact Plus Reading Range

References

- Info - Laserliner
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