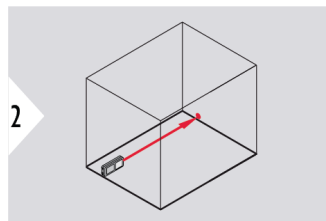
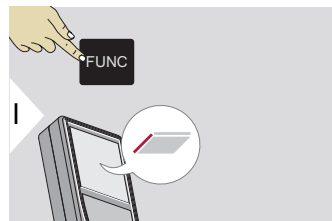
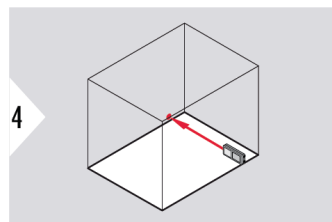
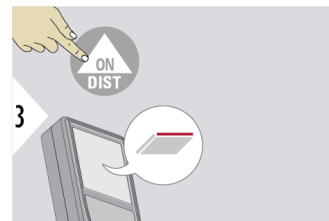


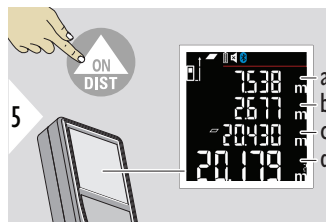
AREA



Aim laser at first target point.



Aim laser at second target point.

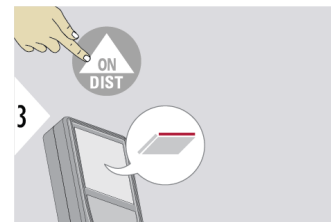
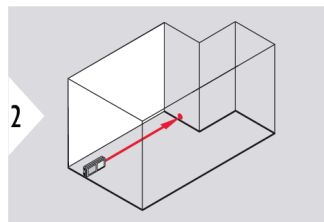
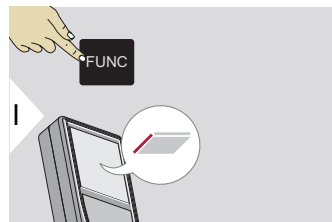


- a First distance
- b Second distance
- c Circumference
- d Area



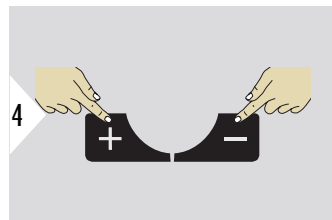
Press the **C/OFF** button to delete the last measurement at any time.

PAINTER function

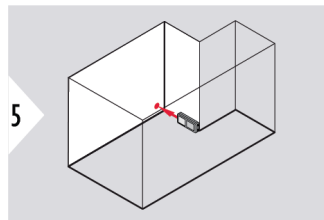


Aim laser at first target point.

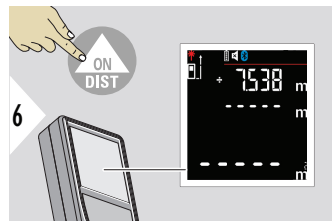
The first measurement appears in the first line.



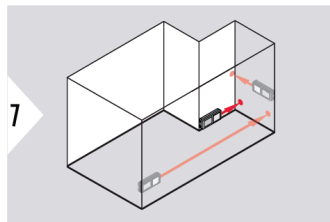
Press + or - to add/subtract the next measurement.



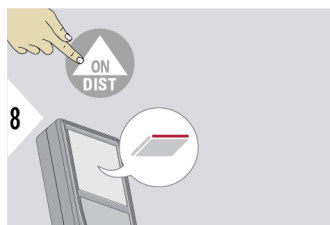
Aim laser at second target point.



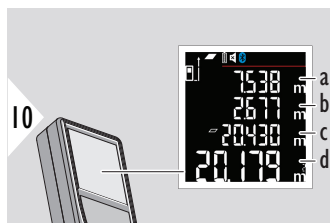
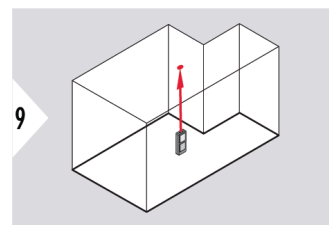
The blinking + or - symbol indicates addition/subtraction of the next measured value.



- Press **ON/DIST** to add/subtract new measurements
- The current value of all measurements still appears in the first line
- Repeat pressing + or – to add/subtract measurements
- Delete the last measurement by pressing the **C/OFF** button



If + or – button is not pressed after the last measurement, the second side of the area, representing the height, is measured.



- a First distance, all added/subtracted measurements
- b Second distance, height
- c Circumference
- d Area

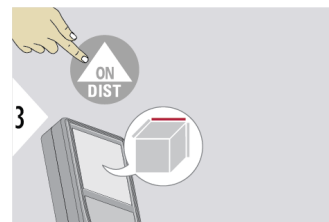
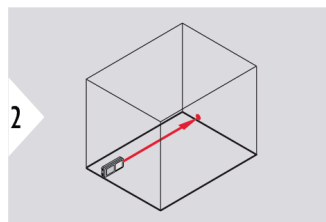
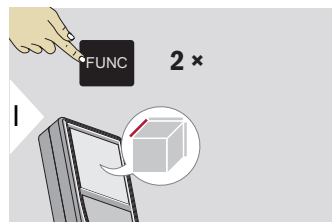


Press the **C/OFF** button to delete the last measurement at any time.

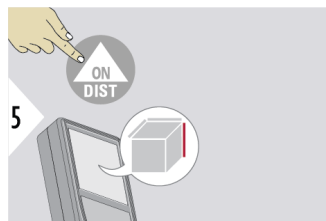
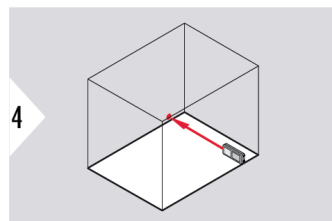


The main result is the area. With + or – several single areas can be added or subtracted. Refer to [Add/subtract](#) for details.

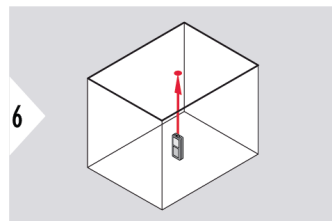
VOLUME



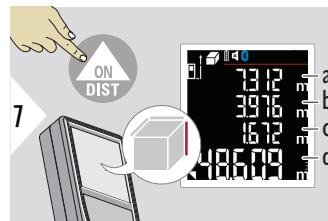
Aim laser at first target point.



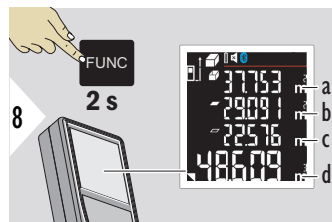
Aim laser at second target point.



Aim laser at third target point.



- a First distance
- b Second distance
- c Third distance
- d Volume



- a Cube - wall areas
- b Full square - ceiling/floor area
- c Outer square - circumference of the base
- d Volume



Press the **C/OFF** button to delete the last measurement at any time.

5

Message Codes

Overview

Code	Cause	Correction
204	Calculation error	Perform measurement again.
240-245	Data transfer error	Connect device and repeat procedure.
252	Temperature too high	Allow device cool down.
253	Temperature too low	Warm device up
254	Battery error	Change batteries
255	Received signal too weak, measuring time too long	Change target surface (for example white paper)
256	Received signal too high	Change target surface (for example white paper)
257	Too much background light	Shadow target area
260	Laser beam interrupted	Repeat measurement
299	Hardware error	If this message continuously appears, the device must be serviced. Ask dealer for help.

- Clean the device with a damp, soft cloth
 - Never immerse the device in water
 - Never use aggressive cleaning agents or solvents
-

7

Technical Data

General

Accuracy with favourable conditions ²⁾	1.5 mm/0.06" ³⁾
Accuracy with unfavourable conditions ⁴⁾	3 mm/0.12" ⁵⁾
Range with favourable conditions ²⁾	0.05-100 m/0.16-330 ft ³⁾
Range with unfavourable conditions ⁴⁾	0.05-60 m/0.16-200 ft ⁵⁾
Smallest unit displayed	0.1 mm/ 1/32"
Laser class	2
Laser type	635 nm, < 1 mW
Ø laser point at distances	6/30/60 mm 10/50/100 m
Protection class	IP65 (dust tight- and jet water protected)
Automatic laser switch off	After 90 s
Automatic power switch off	Not configurable, after 180 s

²⁾ Favourable conditions are: white and diffuse reflecting target (white painted wall), low background illumination and moderate temperatures.

³⁾ Tolerances apply from 0.05 m to 5 m with a confidence level of 95%. With favourable conditions, the tolerance may deteriorate by 0.10 mm/m for distances above 5 m.

⁴⁾ Unfavourable conditions are: targets with lower or higher reflectivity or high background illumination or temperatures at the upper or lower end of the specified temperature range.

⁵⁾ Tolerances apply from 0.05 m to 5 m with a confidence level of 95%. With unfavourable conditions, the tolerance may deteriorate by 0.15 mm/m for distances above 5 m.

Bluetooth	Bluetooth v6.0 2.5 mW 2400-2483.5 MHz
Bluetooth range	< 10 m
Pollution degree	2
Relative humidity	Max. 85% non-condensing
Max. altitude	3000 m/9840 ft
Battery durability (2 × AAA)	Up to 7000 measurements Up to 14 hours operation time
Dimension (H × D × W)	125 × 53.5 × 25.5 mm 4.92 × 2.11 × 1.00"
Weight (with batteries)	129 g/4.55 oz
Temperature range storage	-25 to 70 °C -13 to 158 °F
Temperature range operation	-10 to 50 °C 14 to 122 °F

General

Accuracy with favourable conditions ⁶⁾	1.5 mm ⁷⁾
Accuracy with unfavourable conditions ⁸⁾	3 mm ⁹⁾
Range with favourable conditions ⁶⁾	0.05-100 m ⁷⁾

⁶⁾ Favourable conditions are: white and diffuse reflecting target (white painted wall), low background illumination and moderate temperatures.

⁷⁾ Tolerances apply from 0.05 m to 5 m with a confidence level of 95%. With favourable conditions, the tolerance may deteriorate by 0.10 mm/m for distances above 5 m.

Range with unfavourable conditions ⁸⁾	0.05-60 m ⁹⁾
Smallest unit displayed	0.1 mm
Laser class	2
Laser type	635 nm, < 1 mW
Ø laser point at distances	6/30/60 mm 10/50/100 m
Protection class	IP65 (dust tight and jet water protected)
Automatic laser switch off	After 90 s
Automatic power switch off	Not configurable, after 180 s
Bluetooth	Bluetooth v6.0 2.5 mW 2400-2483.5 MHz
Bluetooth range	< 10 m
Pollution degree	2
Relative humidity	Max. 85% non-condensing

⁸⁾ Unfavourable conditions are: targets with lower or higher reflectivity or high background illumination or temperatures at the upper or lower end of the specified temperature range.

⁹⁾ Tolerances apply from 0.05 m to 5 m with a confidence level of 95%. With unfavourable conditions, the tolerance may deteriorate by 0.15 mm/m for distances above 5 m.

⁶⁾ Favourable conditions are: white and diffuse reflecting target (white painted wall), low background illumination and moderate temperatures.

⁷⁾ Tolerances apply from 0.05 m to 5 m with a confidence level of 95%. With favourable conditions, the tolerance may deteriorate by 0.10 mm/m for distances above 5 m.

Max. altitude	3000 m
Battery durability (2 × AAA)	Up to 7000 measurements Up to 14 hours operation time
Dimension (H × D × W)	125 × 53.5 × 25.5 mm
Weight (with batteries)	129 g
Temperature range storage	−25 to 70 °C
Temperature range operation	−10 to 50 °C

Functions

Distance measuring	yes
Min/Max measuring	yes
Permanent measuring	yes
Addition/Subtraction	yes
Area	yes
Volume	yes
Painter function (area with partial measurement)	yes
Beep	yes
Illuminated display	yes
Bluetooth	yes
NFC	yes

7.1

Conformity to National Regulations

Labelling DISTO X1



EU



Hereby, Leica Geosystems AG declares that the radio equipment type Leica DISTO™ X1 is in compliance with Directive 2014/53/EU and other applicable European Directives.

The full text of the EU declaration of conformity is available at the following Internet address: <http://www.disto.com/ce>.

UKCA

Hereby, Leica Geosystems AG declares that the radio equipment type Leica DISTO™ X1 is following the provisions of the applicable relevant statutory requirement S.I. 2017 No. 1206 Radio Equipment Regulations 2017.

The full text of the UK declaration of conformity is available at the following Internet address: <http://www.disto.com/ukca>.

USA**FCC Compliance Statement**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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:

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

This product complies with FCC radiation exposure limits set forth for an uncontrolled environment and portable use.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada

ISED (IC) Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
 2. This device must accept any interference, including interference that may cause undesired operation of the device.
-

ICES-003 Class B Notice:

This Class B digital device complies with Canadian ICES-003.

This device complies with Health Canada's Safety Code 6 for portable use. The installer of this device should ensure that RF radiation is not emitted in excess of the Health Canada's requirement.

Canadian Representative:

Leica Geosystems LTD

1-3761 Victoria Park Avenue, Scarborough,

ON, M1W 3S2 Canada

dwayne.louviere@leicaus.com

Japan

- This device is granted pursuant to the Japanese Radio Law (電波法).
- This device should not be modified (otherwise the granted designation number will become invalid).

Others

The conformity for countries with other national regulations has to be approved prior to use and operation.

8

International Limited Warranty

Description



International Limited Warranty

The Leica DISTO™ X1 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 [Leica Disto Warranty](#) 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 [Leica Warranty](#)

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Leica Geosystems AG

Heinrich-Wild-Strasse
9435 Heerbrugg
Switzerland

www.leica-geosystems.com



- when it has to be **right**

Leica
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