

The original laser distance meter



- when it has to be **right** 

# **Table of Contents**

Instrument Set-up 2
Introduction 2
Overview
Basic measuring screen
Selection screen 3
Pointfinder (Viewscreen)
Icons on Status bar 4
Charging the Li-lon battery via USB 5
Charging the Li-Ion battery via USB
Using the Smart Base Extension $$
Operations 7
Using the Touch Screen 7
Suitching ON/OEE
Switching ON/OFF
Clear 8
Message Codes 8
Permanent / Minimum-Maximum measuring
Add / Subtract
Pointfinder (Viewscreen)
Screenshot
Memory IC
Settings
Overview []
Tilt units II
Move Alert of Levelling 12
Distance units
Beep ON/OFF 14
Digital level ON/OFF 14
Digital level ON/OFF
De-/Activate keylock 14
Bluetooth <sup>®</sup> /WLÁN I5
Calibration of tilt sensor (Tilt Calibration)
Personalized favorites
Illumination I8
Touch Screen ON/OFF I8
Date and Time I9
Compass Adjustment
Offset 20
Reset 20
Information/Software Update 21
<b>Functions</b> 22
Overview 22
Calculator 23
Smart Horizontal Mode 23

Smart Angle measurement	- 24
Level	- 24
Measuring single distance	- 25
Point to point measurements	- 26
DXF data capture	- 27
Point to point measurements DXF data capture Photo	- 28
Volume	- 29
Smart Area measurement	- 30
WLAN data transmission	- 31
Gallery	- 32
Area	- 33
Sloped objects	- 34
Width	- 35
Timer	- 36
Triangular area	- 37
Height-profile measurement	- 38
Diameter	- 39
Adjusting measuring reference	- 40
Pythagoras (2-point)	- 41
Pythagoras (2-point)	- 42
Area from Photo	- 43
	_ 44
Pythagoras (3-point)	- 45
Trapezium	- 46
Stake out	- 47
Technical Data	- 48
Message Codes	
Care	
Warranty	50
Warrancy	- 50
Safety Instructions	- 50
Areas of responsibility	- 50
Permitted use	- 50
Prohibited use	- 50
	- 51
Disposal	· 5 !
Electromagnetic Compatibility (EMC)	- 51
FCC statement (applicable in U.S.)	- 51
Déclaration FCC, applicable aux États-Unis Use of the product with Bluetooth <sup>®</sup>	- 52
Use of the product with Bluetooth <sup>®</sup>	- 53
	- 53
Labelling	- 53

EN

П

#### Introduction



The 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:

# 

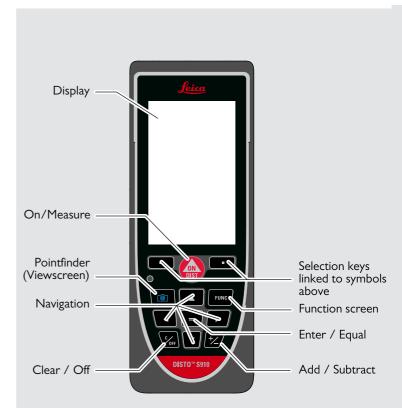
Indicates a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.

# 

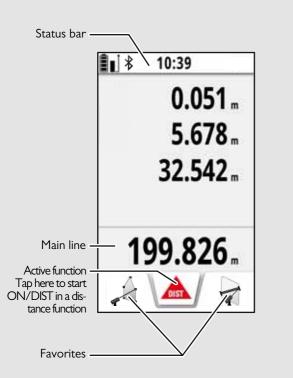
Indicates a potentially hazardous situation or an unintended use which, if not avoided, may result in minor injury and/or appreciable material, financial and environmental damage.

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

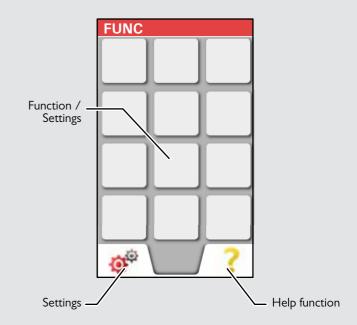
## **Overview**



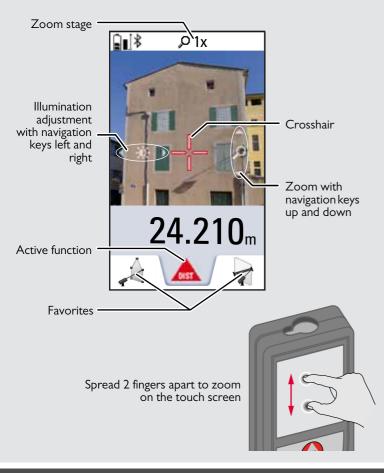
## **Basic measuring screen**



## **Selection screen**



# **Pointfinder (Viewscreen)**



#### Icons on Status bar

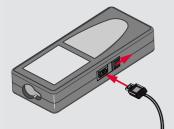
\$	Scroll up and down for further results
	Battery power
*	Bluetooth <sup>®</sup> is switched on
♦	Bluetooth® connection established
۲	Device is not leveled
	Device is leveled
0	Device was moved after leveling - affects measuring accuracy
Δ	Offset is activated and subtracts the defined value from measured distance
$\Delta^{\!\!*}$	Offset is activated and adds the defined value from measured distance
M	Device is measuring
8	DISTO™ WLAN hotspot activated
9	Other device connected to DISTO™ WLAN hotspot
•0)	WLAN client mode activated
-0)	DISTO <sup>™</sup> connected as client to WLAN
ò,	Zoom
	Measuring reference

# Charging the Li-Ion battery via USB

Charge the battery before using it for the first time. Use the provided cable to charge the battery.

Plug the small end of the cable into the port of the device, and plug the end of the charger into an electrical socket. Select the appropriate connector for your country. The device cannot be used while it is charging.

The computer can also be used to charge the device, but this takes more time. If the device is connected to the computer via USB cable, you can download or delete the gallery. It is not possible to upload any data.



When you charge the battery, the following icons show the status:

Charging

Fully charged







Charge batteries when battery symbol is flashing.

not affect the device's lifespan or performance. If the battery gets

At a recommended storage temperature of -20°C to +30°C (-4°F to +86°F), batteries containing a 50% to 100% charge can be stored up to I year. After this storage period the batteries

To save energy, unplug the charger when not in use.

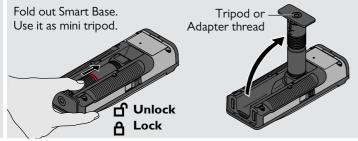
# 

Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty. Use only Leica-approved chargers, batteries, and cables. Unapproved chargers or cables can cause the battery to explode or damage the device.

If the device is connected to the computer via USB cable, you can download or delete the gallery. It is not possible to upload any data.

EN

# Using the Smart Base



# Using the Smart Base Extension



The Smart Base Extension allows for stable targeting without unintentionally tilting the device..

Do not move or tilt the Smartbase during measuring.

We recommend the use of a tripod with the Leica FTA360-S adapter.

#### **Using the Touch Screen**

Use only fingers to use the touch screen.

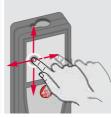
Do not allow the touch screen to come into contact with other electrical devices.

Electrostatic discharges can cause the touch screen to malfunction. Do not allow the touch screen to contact water. The touch screen may malfunction in humid conditions or when exposed to water. To avoid damaging the touch screen, do not tap it with anything sharp or do not apply excessive pressure to it with your fingertips.

#### Tapping



Tap on the display to open an onscreen button or to make a selection. Tapping on the icon in the middle of the bottom line activates the distance measurement or triggers the camera.



Dragging

Drag on the display to move to previous or to next screen in the galerie function.

#### Pinching



Spread 2 fingers apart to zoom if pointfinder is activated.

Instead of using the touch screen, the normal keypad buttons can be used also.

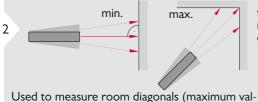
# Operations

# EN



### Permanent / Minimum-Maximum measuring





ues) or horizontal distance (minimum values)

# Add / Subtract





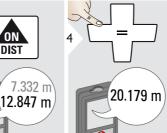
The next measurement is **added** to the previous one.



The next measurement is **subtracted** from the previous one.



as- **Jb**n the



This process can be repeated as required. The same process can be used for adding or subtracting areas or volumes.

The minimum and maximum distance measured is displayed (min, max.). The last value measured is displayed in the main line.



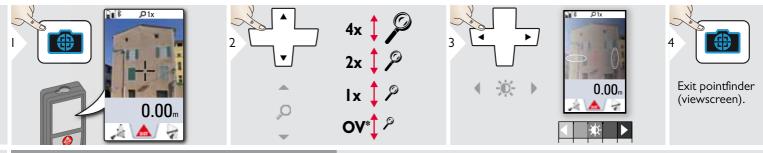


З

Stops permanent / minimummaximum measuring.

#### **Operations**

## **Pointfinder (Viewscreen)**



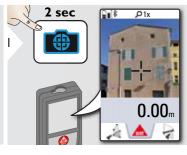
This is a great help for outdoor measuring. The integrated pointfinder (viewscreen) shows the target on the display. The device measures in the middle of the cross hair, even if the laser dot is not visible.

Parallax errors occur when the pointfinder camera is used on close targets, with the effect that the laser appears displaced in the crosshair. In this case the error is automatically corrected with a shift of the crosshair.

\* OV = Overview

#### Screenshot

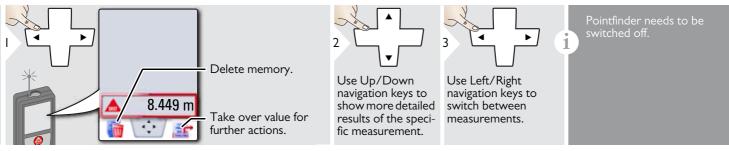
1



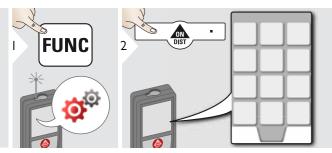
Screenshot photo is saved in gallery.

# **Operations**

#### Memory

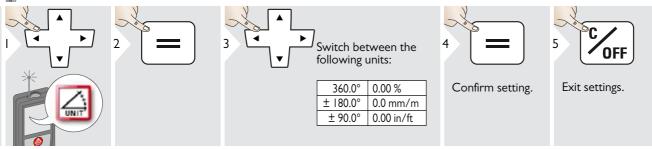


# Settings



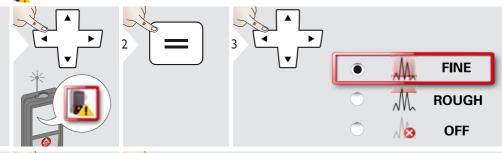
	Tilt units
	Move Alert
÷\$	WLAN / Bluetooth <sup>®</sup>
Ņ	Digital level
P	Keypad lock
-	Illumination
¢,	Tilt calibration
×	Favorites
+	Compass adjustment
۲	Touch screen
1	Date and Time
THE PARTY	Distance units
۲	Offset
G	Reset
<b>i</b>	Information/Software Update
ų,	Веер

🛆 Tilt units



# Move Alert of Levelling

5



Choose the sensitivity of the levelling, which is needed for some measuring functions. FINE means, that the levelling of the device is sensitive to any small vibrations. Choose ROUGH when working in harsh construction environment with many shocks and vibrations. In this case the accuracy is decreased in correlation with the movements.

Confirm setting.

Exit settings.

**OFF** 

# Distance units

	Switch between the following units:	Art. No. 805080: 0.00 m 0.00 ft 0.000 m 0.00 in 0.0000 m 0 in 1/32 0.0 mm 0'00" 1/32	US-Model Art. No. 808183: 0.00 m 0 in 1/16 0.000 m 0'00" 1/16 0.000 m 0'00" 1/8 0.0 mm 0'00" 1/8 0.00 ft 0 in 1/4 0.00 in 0'00" 1/4 0 in 1/32 0.000 yd 0'00" 1/32
4 5 <b>Confirm setting.</b> Exit settings.			

# Settings

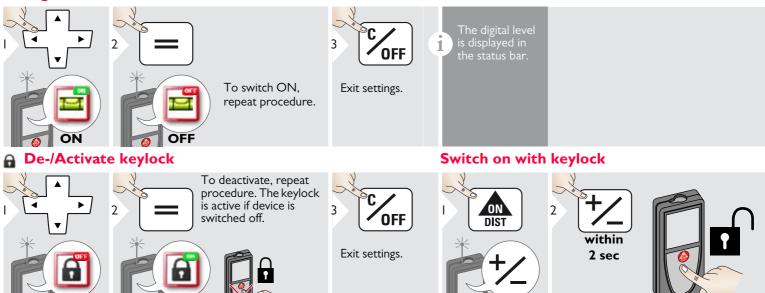
# Beep ON/OFF 2 To switch ON, repeat procedure.

OFF

ÔN

# 🖬 Digital level ON/OFF

ON

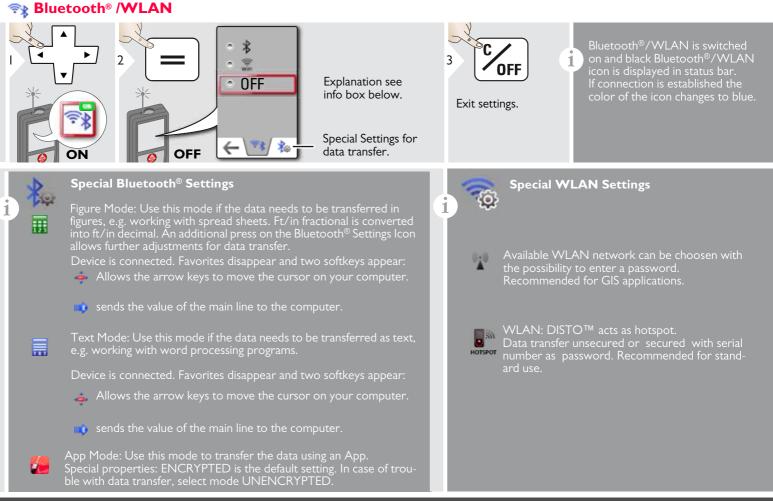


OFF

Exit settings.

Leica DISTO<sup>™</sup> S910 808167a

OFF



1

Connect the device with your smart phone, tablet, laptop,... The actual measurement is transferred automatically if Bluetooth<sup>®</sup> connection is established. To transfer a result from the main line, press =. Bluetooth<sup>®</sup> switches off as soon as the laser distance meter is switched off.

The efficient and innovative Bluetooth<sup>®</sup> Smart module (with the new Bluetooth<sup>®</sup> standard V4.0) works together with all Bluetooth<sup>®</sup> Smart Ready devices. All other Bluetooth<sup>®</sup> devices do not support the energy saving Bluetooth<sup>®</sup> Smart Module, which is integrated in the device.

We provide no warranty for free DISTO<sup>™</sup> software and offer no support for it. We accept no liability whatsoever arising from the use of the free software and we are not obliged to provide corrections nor to develop upgrades. A wide range of commercial software can be found on our homepage. Apps for Android<sup>®</sup> or Mac iOS can be found in special internet shops.

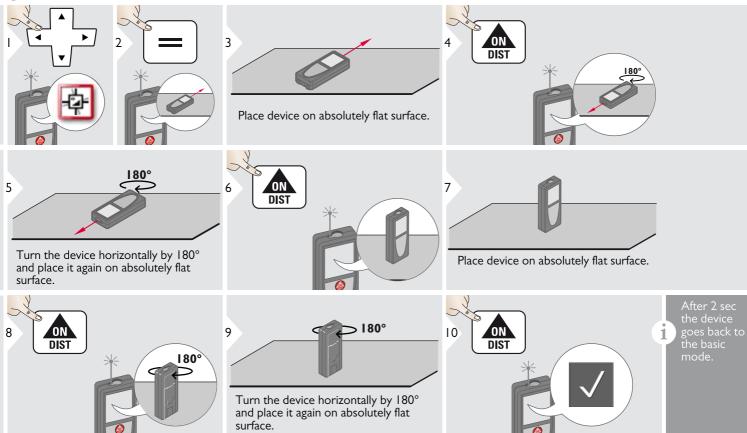
For more details, see our homepage.

#### WLAN data transfer

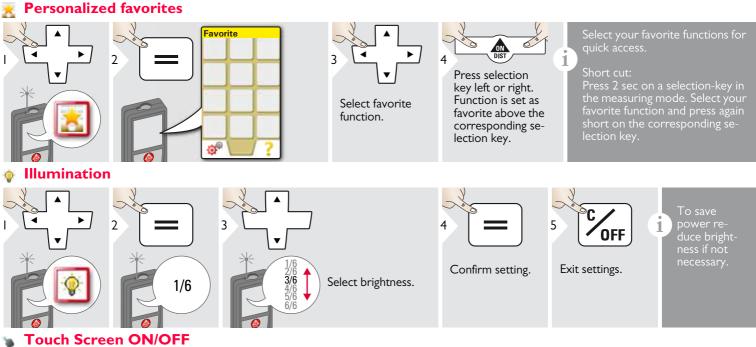
1

Only data from the function Point Data transmission can be transferred with WLAN. A corresponding program is needed to receive the data, e.g. DISTO<sup>™</sup> transfer. For more details, see our homepage.

# Calibration of tilt sensor (Tilt Calibration)



# Settings



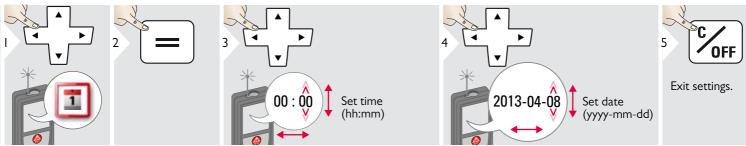
OFF



Leica DISTO<sup>™</sup> S910 8<u>08167a</u>

1

#### Date and Time



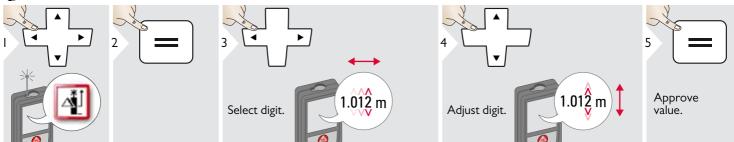
#### Compass Adjustment

#### Adjusting the magnetic declination

Depending on your geographic location, the angle of declination may vary from other locations, as the geographic and magnetic poles are aligned. However, if the reference location is not selected, the difference in declination between the poles can differ greatly. For best results, select the nearest geographic reference point using the steps below.



EN

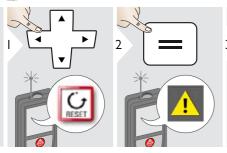




Exit settings.

An offset adds or subtracts a specified value automatically to or from all measurements. This function allows tolerances to be taken into account. The offset icon is displayed.

😟 Reset







1

Exit settings.

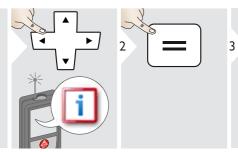
Reset returns the instrument to the factory settings. All customized settings and memories are lost.

A HARDWARE-RESET is done by pressing 15 sec on ON/DIST key.

# Settings

i

# Information/Software Update





Connect the device with USB to your computer.

5

Software updates with correspondent instructions can be found on our homepage www.disto.com.

Make sure that you use always the newest software version.

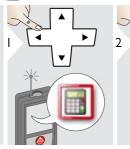
# Overview



	Calculator
1	Smart Horizontal Mode
10	Smart Angle measurement
	DXF Folder
$\odot$	Level
DIST	Single Distance measurement
1	Point to point measurements
	DXF data capture
	Photo
	Volume
	Smart Area measurement
	WLAN data transmission
	Gallery
$\diamond$	Area

A	Measuring on sloped objects
Į.	Width
3	Timer
	Triangular area
Ş,	Height-profile Measurement
٩Ų	Diameter
Ĭ.	Adjusting measuring reference
$\bigtriangledown$	Pythagoras (2-point)
$\mathbb{V}$	Height Tracking
₩	Area from Photo
+	Compass
Þ	Pythagoras (3-point)
	Trapezium
444 8 b b	Stake out

#### Calculator

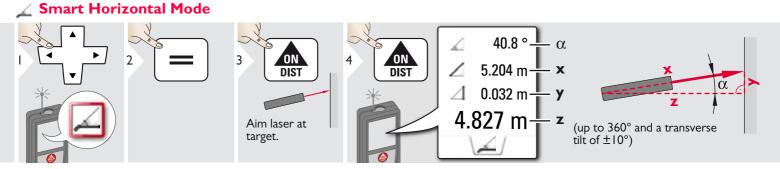


#### Select key on display. Select key on display. Confirm every key. Use selection keys for clear or result.

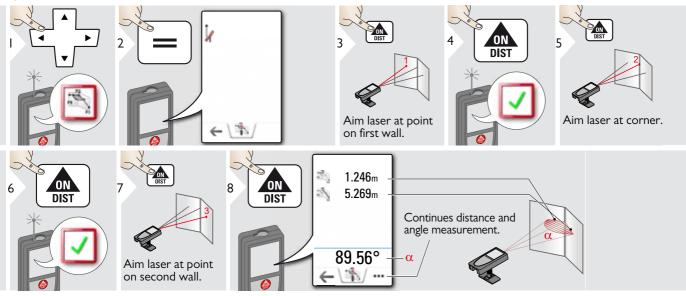
3

The measurement result from the main line is taken over to the calculator and can be used for further calculations. Ft/in fractions are converted into ft/in decimal.

lator in the basic mode press DIST before leaving the calculator function.

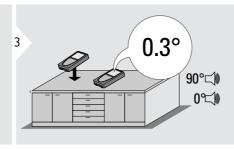


#### 📉 Smart Angle measurement



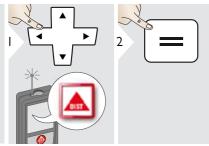
#### 🔬 Level





Displays inclinations of 360° with a transverse inclination of +/- 10°. Instrument beeps at 0° and 90°. Ideal for horizontal or vertical adjustments.

# A Measuring single distance



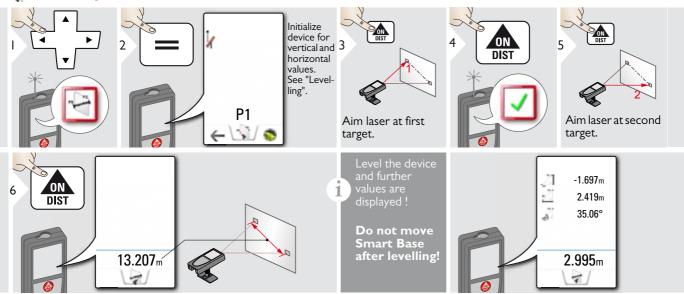
3 DIST	
Aim active laser at target.	



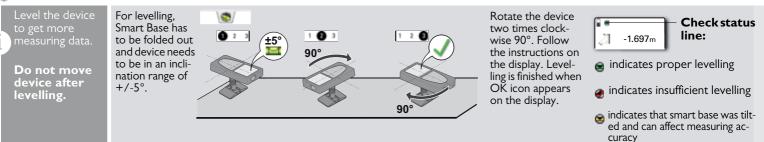
Target surfaces:

i

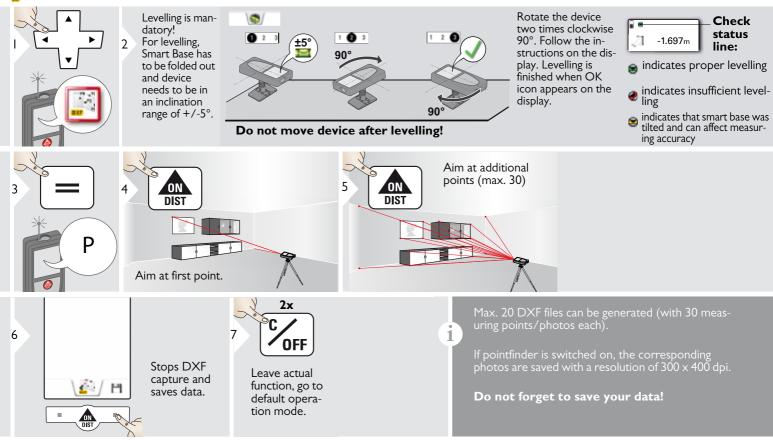
Measuring errors can occur when measuring to colourless liquids, glass, styrofoam or semi-permeable surfaces or when aiming at high gloss surfaces. Against dark surfaces the measuring time increases.



#### Levelling

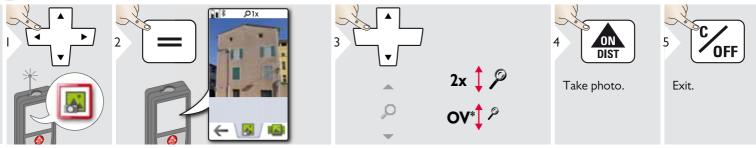


# 🛐 DXF data capture



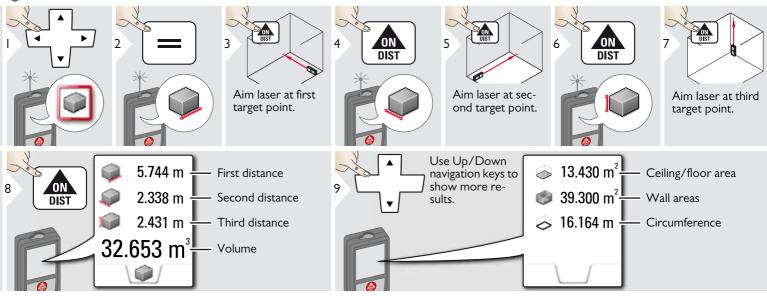
## 📕 Photo

i

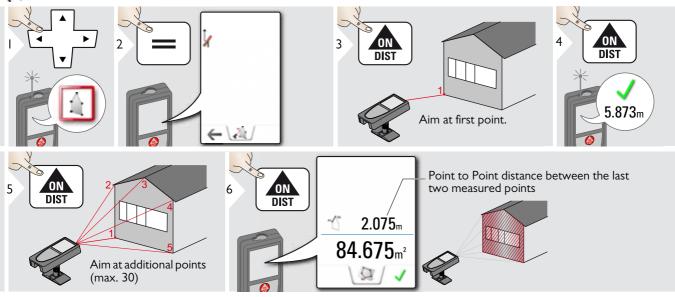


Tap on the camera icon in the middle of the bottom line to take a photo. For screenshots, press camera key for 2 sec.

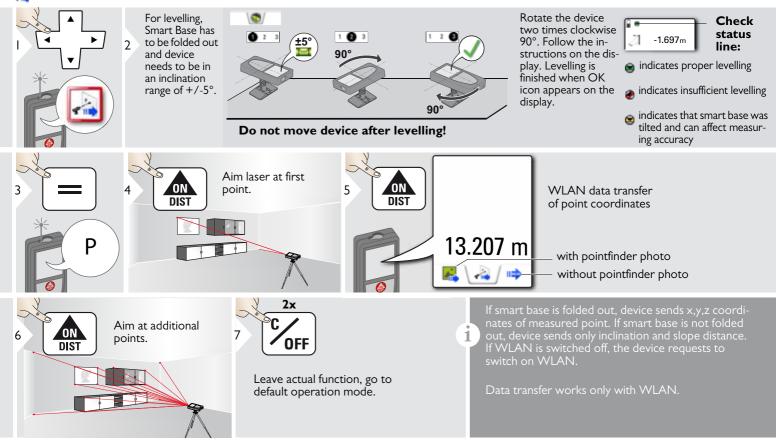
\* OV = Overview



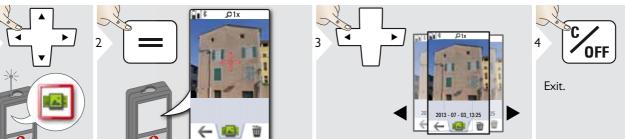
# 🛓 Smart Area measurement





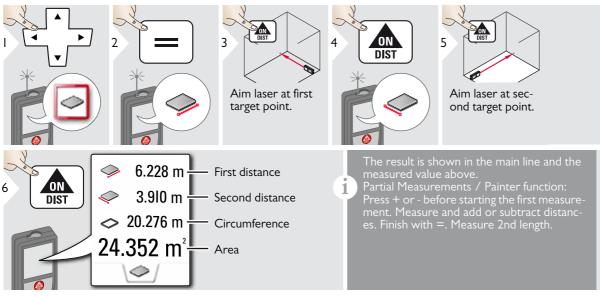


1

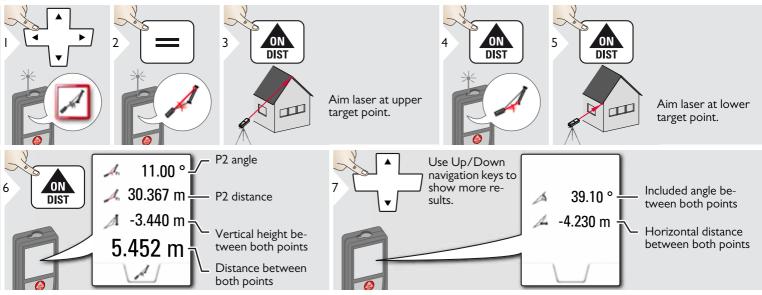


If the device is connected to the computer via USB cable, you can download or delete the gallery. It is not possible to upload any data.

#### Area



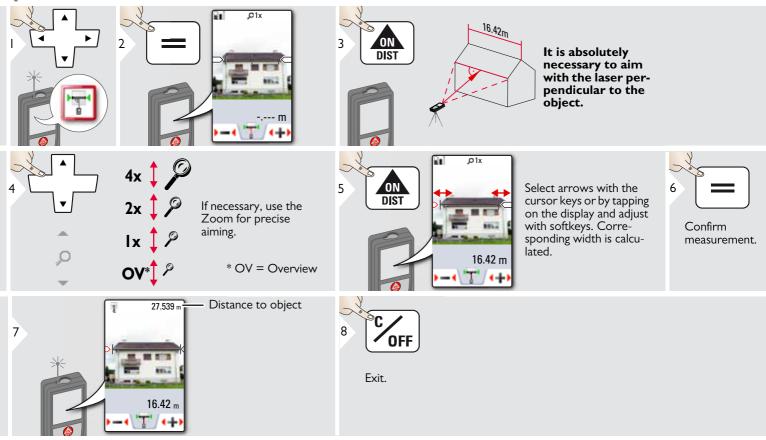
#### Sloped objects



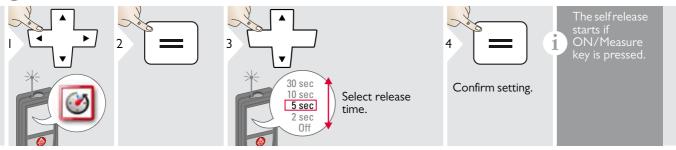
Indirect distance measuring between 2 points with additional results. Ideal for applications such as length and slope of roof, height of chimneys,...

It is important, that the instrument is positioned in the same vertical plane as the 2 measured points. The plane is defined of the line between the 2 points. This means, that the device on the tripod is only moved vertically and not turned horizontally to reach both points.

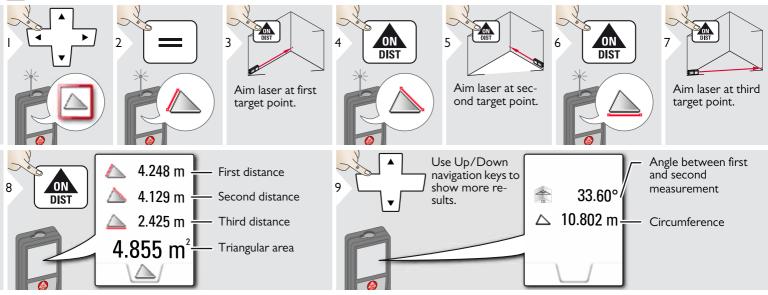
## 🖶 Width

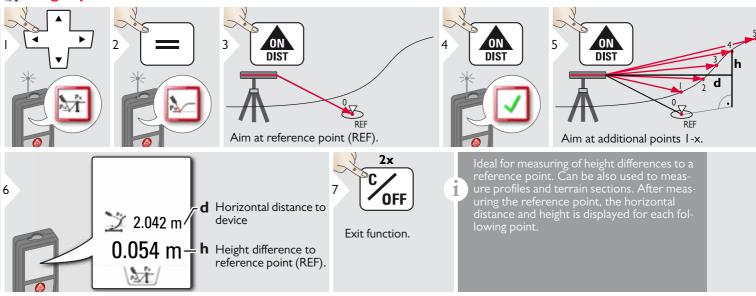


#### O Timer

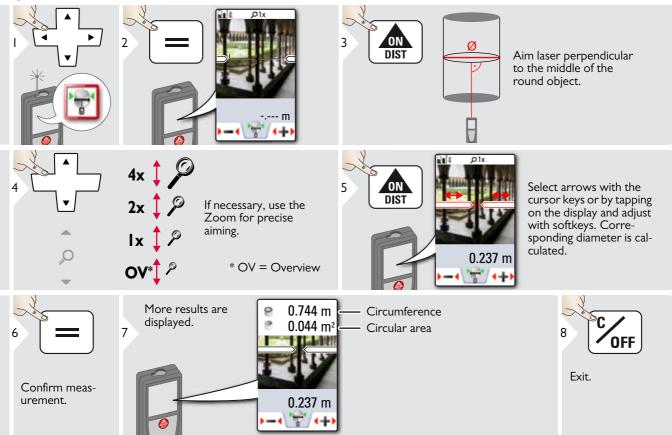


#### 📐 Triangular area

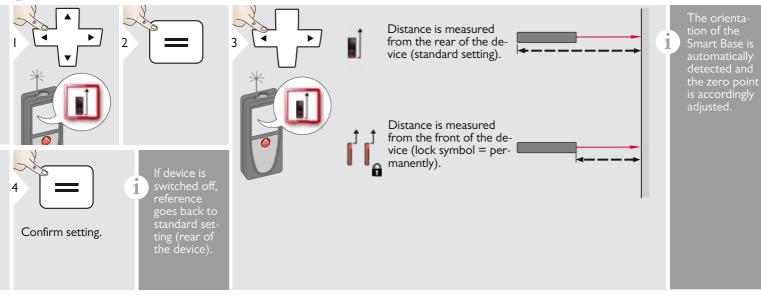




#### 🗣 Diameter



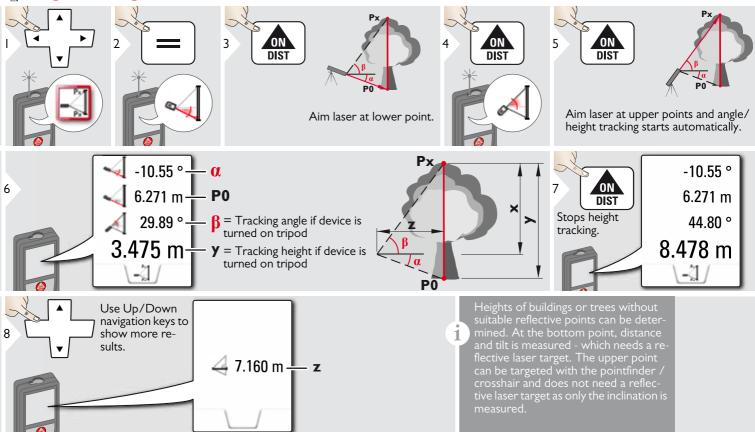
#### Adjusting measuring reference



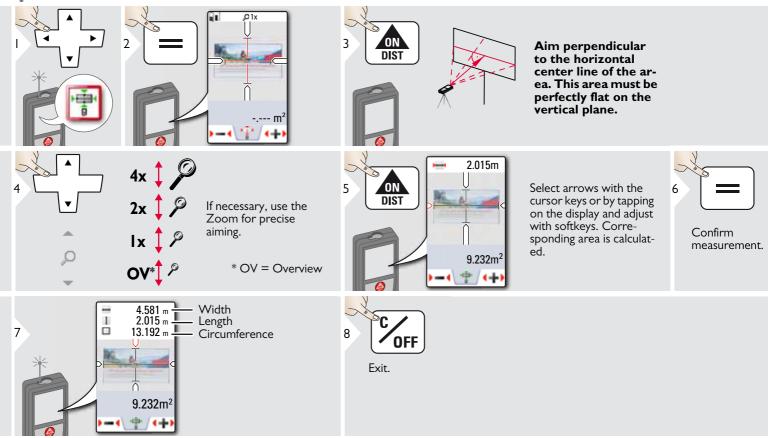
#### **Pythagoras (2-point)**

	Aim laser at first target.	4 DIST 5	Aim laser at second target.
25.133 m 21.383 m 13.207 m		<ol> <li>tivates automatically N ment.</li> <li>We recommend to us horizontal measuring.</li> </ol>	g key for 2 sec in the function ac- linimum or Maximum measure- e the pythagoras only for indirect vertical) it is more precise to use

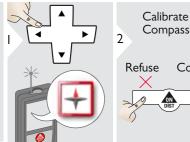
#### I Height tracking

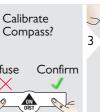


#### 🛉 Area from Photo



### Compass







The arrow always points to true north.



Exit.

probably does not work correctly:

1

i

- electrical household appliances

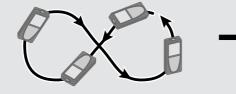
# over the front $/ > 10^{\circ}$ side-



Keep the device away from any magnet!

#### Calibration of Compass:

The compass has to be caliafter switching on the device.



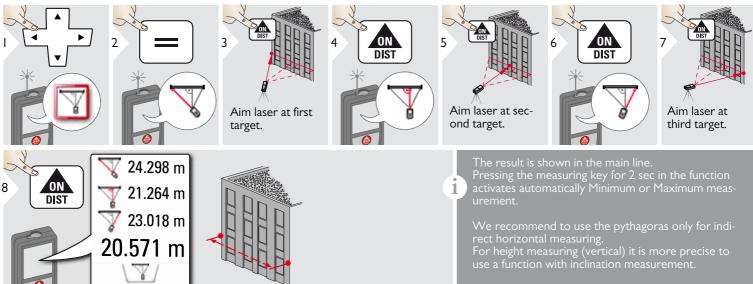
1

Rotate the device slowly in a figure 8 motion until OK icon appears on the display.

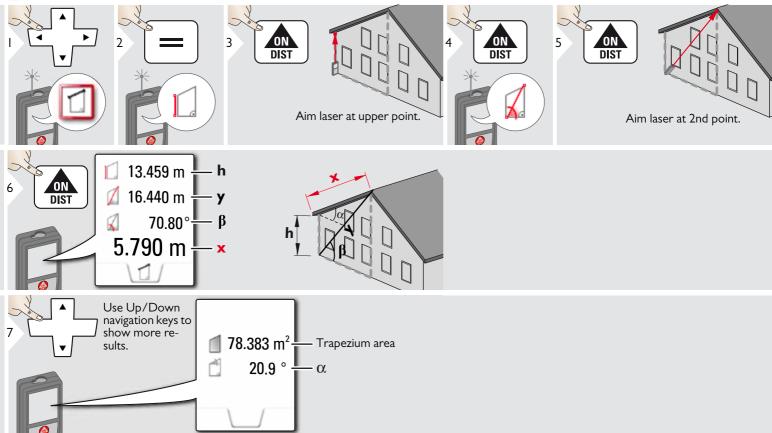


After 2 sec the device goes back to the

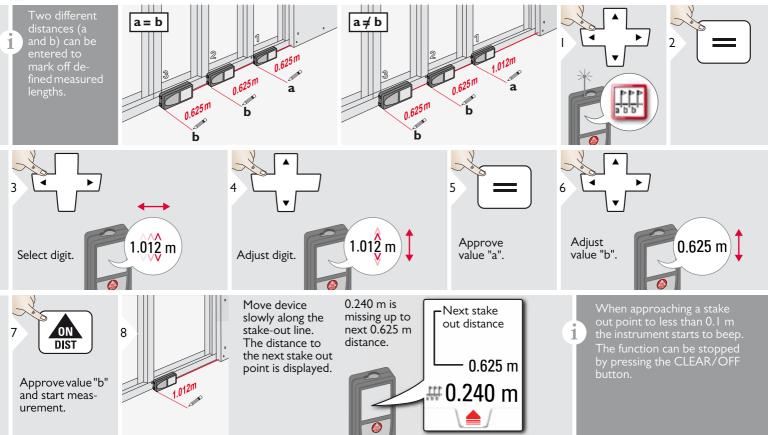
#### **Pythagoras (3-point)**



#### 1 Trapezium



#### **# Stake out**



#### **Technical Data**

Distance measurement	(ISO 163331-1)
Accuracy with favourable conditions *	± 1.0 mm / 0.04 in ***
Accuracy with unfavourable conditions **	± 2.0 mm / 0.08 in ***
Range with favourable conditions *	0.05m - 300 m / 0.16 - 1000 ft
Range with unfavourable condition **	0.05m - 150m (0.16 - 492 ft)
Smallest unit displayed	0.1 mm / 1/32 in
X-Range Power Technology <sup>™</sup>	yes
Ø laser point at distances	6 /30 / 60 mm (10 / 50 / 100 m)

Tilt measurement	
Measuring tolerance to laser beam ****	-0.1° / +0.2°
Measuring tolerance to housing ****	±0.1°
Range	360°

Working range vertical sensor	-40° to 80°
Accuracy vertical sensor	up to +/- 0.1°
Working range horizontal sensor	360°
Accuracy horizontal sensor	up to +/- 0.1°
Tolerance P2P function at distances (combination of sensors and distance meas- uring)	approx. : +/- 2 mm / 2 m +/- 5 mm / 5 m +/- 10 mm / 10 m

Device levelling	
Levelling range	+/- 5°
Levelling accuracy	+/- 0.05°

General	
Laser class	2
Laser type	635 nm, < 1 mW
Protection class	IP54 (dust- and splash water protected)
Autom. laser switch off	after 90 s
Autom. power switch-off	after 180 s
Bluetooth <sup>®</sup> Smart	Bluetooth <sup>®</sup> v4.0
Range of Bluetooth <sup>®</sup>	<10 m
WLAN	yes
Range of WLAN	10 m
Dimension (H x D x W)	61 x 32 x 164 mm 2.4 x 1.3 x 6.5 in
Weight	291 g / 10.2 oz
Temperature range: - Storage - Operation - Charging	-25 to 60 °C -13 to 140 °F -10 to 50 °C 14 to 122 °F -10 to 40 °C 14 to 104 °F

Digital data	
Resolution for photos	800 x 600 dpi
Resolution for screenshots	240 x 400 dpi
File format	JPG, DXF
Download	USB

Battery (Li-Ion)	
Rated voltage	3.7 V
Capacity	2.6 Ah
Measurements per battery charge	Approx. 4000
Charging time	Approx. 4 h
Output voltage	5.0 V
Charging current	ΙA

\* favourable conditions are: white and diffuse reflecting target (white painted wall), low background illumination and moderate temperatures.

\*\* 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.

\*\*\* Tolerances apply from 0.05 m to 10 m with a confidence level of 95%. With favourable conditions the tolerance may deteriorate by 0.05 mm/m for distances between 10 m to 30 m, by 0.10 mm/m between 30 m and 100 m and by 0.20 mm/m for distances above 100 m.

With unfavourable conditions the tolerance may deteriorate by 0.10 mm/m for distances between 10 m to 30 m, by 0.20 mm/m between 30 m and 100 m and by 0.30 mm/m for distances above 100 m.

\*\*\*\* after user calibration. Additional angle related deviation of  $+/-0.01^{\circ}$  per degree up to  $+/-45^{\circ}$  in each quadrant.

Applies at room temperature. For the whole operating temperature range the maximum deviation increases by  $+/-0.1^{\circ}$ .

At a recommended storage temperature of -20°C to +30°C (-4°F to +86°F), batteries containing a 50% to 100% charge can be stored up to 1 year. After this storage period the batteries must be recharged.

For accurate indirect results, the use of a tripod is recommended. For accurate tilt measurements a transverse tilt should be avoided.

Functions	
Distance measuring	yes
Min/Max measuring	yes
Permanent measuring	yes
Stake-out	yes
Addition/Subtraction	yes
Area	yes
Triangle area	yes
Volume	yes
Trapezium	yes
Painter function (area with partial measurem.)	yes
Pythagoras	2-point, 3-point
Smart Horizontal Mode / Indirect height	yes
Height-profile measurement	yes
Level	yes
Sloped objects	yes
Height tracking	yes
Memory	yes
Веер	yes
Illuminated colour display	yes
Pointfinder (Viewscreen)	4x zoom, OV
Bluetooth <sup>®</sup> Smart	yes
Personalized Favorites	yes
Timer	yes
Calculator	yes
Photo/Screenshot	yes
Compass	yes
Gallery with USB download	yes
Diameter	yes
Width	yes
Area from Photo	yes
Smart Base	yes
Pointdata transmission	yes
Point to point function /distance	yes
Smart Angle	yes
Smart Area	yes
DXF Data capture	yes

#### **Message Codes**

If the message **Error** does not disappear after switching on the device repeatedly, contact the dealer.

If the message **InFo** appears with a number, press the Clear button and observe the following instructions:

No.	Cause	Correction
156	Transverse tilt greater than 10°	Hold the instrument without any transverse tilt.
162	Calibration mistake	Make sure, the device is placed on a absolutely hori- zontal and flat surface. Repeat the calibration procedure. If the mistake still occurs, contact your dealer.
204	Calculation error	Perform measurement again.
240	Data transfer error	Repeat procedure.
252	Temperature too high	Let device cool down.
253	Temperature too low	Warm device up.
255	Received signal too weak, measuring time too long	Change target surface (e.g. white paper).
256	Received signal too high	Change target surface (e.g. white paper).

No.	Cause	Correction
258	Measurement outside of measuring range	Correct range.
260	Laser beam inter- rupted	Repeat measurement.
300	Smart Base not folded out	Fold out Smart Base.
301	Device was moved, levelling not valid any more	Perform levelling again. Measuring with invalid levelling is possible, but it affects the accuracy.
302	«Point data transmis- sion» is selected, but WLAN is off	Switch on WLAN.
340	WLAN: Data transfer error	Repeat procedure.
341	Authentication Error	Use correct password.

#### Care

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

#### Warranty

## Warranty under PROTECT by Leica Geosystems

#### Lifetime Manufacturer's Warranty

Warranty coverage for the entire usage time of the product under PROTECT according to Leica Geosystems International Limited Warranty and PROTECT General Terms & Conditions set out under www.leica-geosystems.com/protect. Free of charge repair or replacement of all products or any parts under PROTECT that suffer defects as a result of faults in materials or workmanship.

#### 3 Years No Cost

Additional services should the product under PROTECT become defective and require servicing under normal conditions of use, as described in the user manual, at no additional charge.

To receive the "3 years No Cost" period, the product under PROTECT must be registered at http://myworld.leica-geosystems.com within 8 weeks of the purchase date. If the product under PROTECT is not registered, a "2 years No Cost" period applies.

#### **Safety Instructions**

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.disto.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:

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

#### **Permitted use**

- Measuring distances
- Tilt measurement
- Data transfer with  $\mathsf{Bluetooth}^{\texttt{B}}$  /  $\mathsf{WLAN}$

#### **Prohibited use**

- Using the product without instruction
- Using outside the stated limits
- Deactivation of safety systems and removal of explanatory and hazard labels
- Opening of the equipment by using tools (screwdrivers, etc.)
- Carrying out modification or conversion of the product
- Use of accessories from other manufacturers without express approval
- Deliberate dazzling of third parties; also in the dark
- Inadequate safeguards at the surveying site (e.g. when measuring on roads, construction sites, etc.)
- Deliberate or irresponsible behaviour on scaffolding, when using ladders, when measuring near machines which are running or near parts of machines or installations which are unprotected
- Aiming directly in the sun

#### **Safety Instructions**

## 

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.

## A CAUTION

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

## 

Changes or modifications not expressly approved could void the user's authority to operate the equipment.

#### Limits of use

Refer to section "Technical data".

The device is designed for use in areas permanently habitable by humans. Do not use the product in explosion hazardous areas or in aggressive environments.

#### **Disposal**

### 

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)

#### 

The device conforms to the most stringent requirements of the relevant standards and regulations.

Yet, 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 device, 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 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.





#### **Safety Instructions**

EN

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

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

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

## Déclaration FCC, applicable aux Etats-Unis

Ce produit a été testé et ses limites ont été jugées conformes à celles prescrites pour les dispositifs numériques de classe B, décrites dans le paragraphe 15 des règles FCC. Ces limites ont pour but de fournir une protection raisonnable contre des interférences nocives dans une installation résidentielle. Les appareils de ce type génèrent, utilisent et peuvent rayonner de hautes fréquences. Ils sont de ce fait susceptibles de perturber la réception radiophonique en cas d'installation non conforme aux instructions.

Même en cas de respect des instructions, l'absence d'interférences dans une installation particulière ne peut cependant être garantie. Si cet instrument perturbe la réception radiophonique ou télévisuelle, ce que l'on constate en éteignant puis en rallumant l'instrument, l'utilisateur peut tenter de corriger ces interférences en appliquant les mesures suivantes :

- Réorienter ou repositionner l'antenne de réception.
- Augmenter la distance entre l'instrument et le récepteur.
- Connecter l'instrument à un autre circuit que celui du récepteur.
- Consulter le revendeur ou un technicien expérimenté dans le domaine radio/TV.

Cet appareil est conforme à la section 15 des règlements FCC. Son fonctionnement est soumis aux deux conditions suivantes :

- cet appareil ne doit pas causer d'interférences nuisibles, et
- cet appareil doit accepter toute autre interférence reçue, y compris les interférences pouvant entraîner un fonctionnement non désiré.

Ce dispositif est conforme à la norme RSS-210 d'Industrie Canada. L'utilisation est sujette aux deux conditions suivantes :

- ce dispositif ne pas doit pas être la source d'interférences nuisibles, et
- ce dispositif doit accepter toutes les interférences, y compris les interférences pouvant induire des opérations non souhaitées.

#### **Safety Instructions**

## Use of the product with Bluetooth®

## 

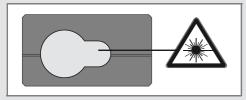
Electromagnetic radiation can cause disturbances in other equipment, in installations (e.g. medical ones such as pacemakers or hearing aids) and in aircraft. It can also affect humans and animals.

#### Precautions:

Athough this product conforms to the most stringent standards and regulations, the possibility of harm to people and animals cannot totally excluded.

- Do not use the product near petrol stations, chemical plants, in areas with a potentially explosive atmosphere and where blasting takes place.
- Do not use the product near medical equipment.
- Do not use the product in airplanes.
- Do not use the product near your body for extended periods.

#### Laser classification



The device produces visible laser beams, which are emitted from the instrument: It is a Class 2 laser product in accordance with:

• IEC60825-1 : 2014 "Radiation safety of laser products"

#### Laser Class 2 products:

Do not stare into the laser beam or direct it towards other people unnecessarily. Eye protection is normally afforded by aversion responses including the blink reflex.

### 

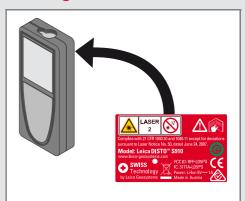
Looking directly into the beam with optical aids (e.g. binoculars, telescopes) can be hazardous.

## 

Looking into the laser beam may be hazardous to the eyes.

Description	Value
Wavelength	620 - 690 nm
Maximum radiant output power for classification	0.95 mW
Pulse repetition frequency	320 MHz
Pulse duration	> 400 ps
Beam divergence	0.16 x 0.6 mrad

#### Labelling



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

Leica Geosystems AG, Heerbrugg, Switzerland has been certified as being equipped with a quality system which meets the International Standards of Quality Management and Quality Systems (ISO standard 9001) and Environmental Management Systems (ISO standard 14001).

Copyright Leica Geosystems AG, Heerbrugg, Switzerland 2015 Original text (808167a EN)

Leica Geosystems AG CH-9435 Heerbrugg (Switzerland) www.disto.com



