Laser Technology, Inc. TruPoint[™] 300 **User Manual**



www.lasertech.com

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Instrument Set-up

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.

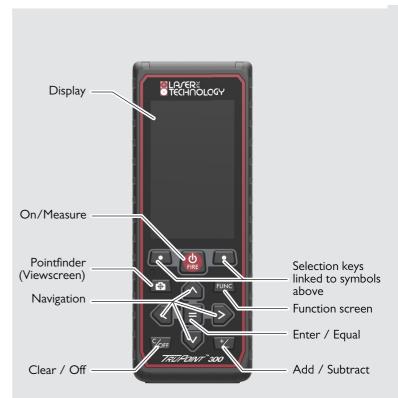
The symbols used have the following meanings:

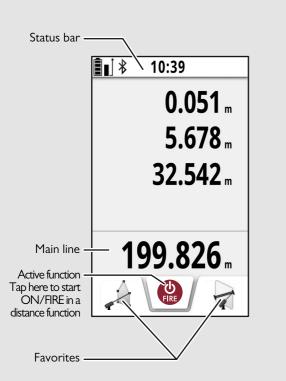
Indicates a potentially hazardous situation or an unintended use which, if not avoided, will result in death or serious injury.

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.

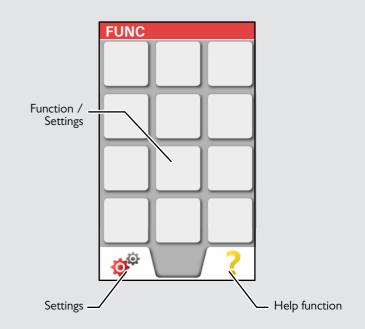
- 1 Important paragraphs which must be adhered to in practice as they enable the product to be used in a technically correct and
- efficient manner.

Overview



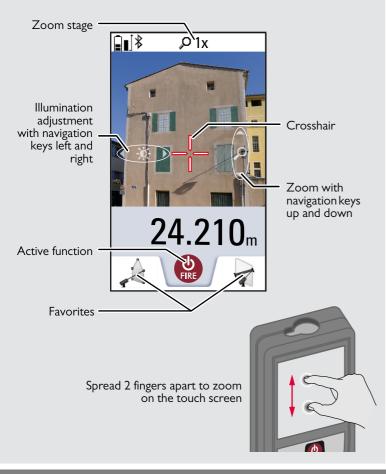


Selection screen



Instrument Set-up

Pointfinder (Viewscreen)



Icons on Status bar

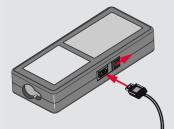
\$	Scroll up and down for further results
	Battery power
≉	Bluetooth [®] is switched on
∻	Bluetooth® connection established
۲	Device is not leveled
١	Device is leveled
۲	Device was moved after leveling - affects measuring accuracy
Δ	Offset is activated and subtracts the defined value from measured distance
₫	Offset is activated and adds the defined value from measured distance
M	Device is measuring
હ	TRUPOINT 300 WLAN hotspot activated
8	Other device connected to TRUPOINT 300 WLAN hotspot
·1)	WLAN client mode activated
•1)	TRUPOINT 300 connected as client to WLAN
ð	Zoom
∎1	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:



Fully charged









While charging, the device may heat up. This is normal and should not affect the device's lifespan or performance. If the battery gets hotter than 40°C / 104°F, the charger stops. 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.

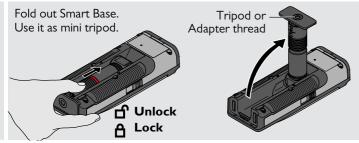
To save energy, unplug the charger when not in use.

Connecting the charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty. Use only Laser Technology-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.

Instrument Set-up

Using the Smart Base



Using the Smart Base Extension



Do not move or tilt the Smartbase during measuring

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We recommend the use of a tripod with the LAA300 Laser Aiming Assist adapter.
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Using the Touch Screen

Use only fingers to use the touch screen.

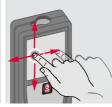
Do not allow the touch screen to come into contact with other electrical devices.

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

Fam

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.

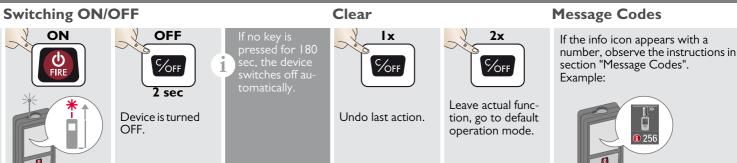
Pinching



Spread 2 fingers apart to zoom if pointfinder is activated.

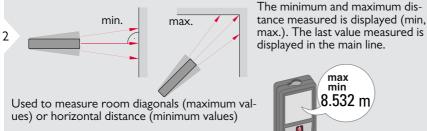
Instead of using the touch screen, the normal keypad buttons can be used also.

Operations

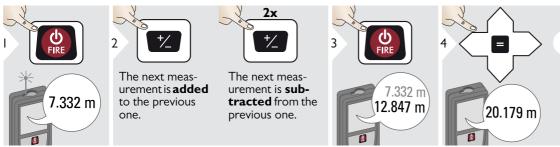


Permanent / Minimum-Maximum measuring





Add / Subtract



areas or volumes.

Stops permanent / minimum-

maximum measuring.

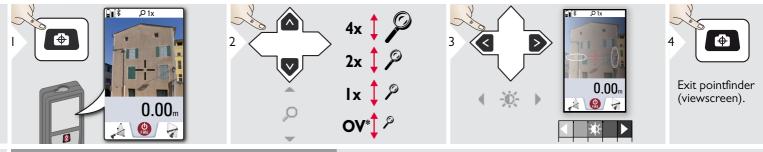
3

max

min 8.532 m

Operations

Pointfinder (Viewscreen)



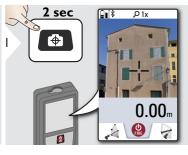
This is a great help for outdoor measuring. The integrated pointfinder (viewscreen) shows the target on the display. The device measures in the middle of the cross hair, even if the laser dot is not visible.

Parallax errors occur when the pointlinder 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

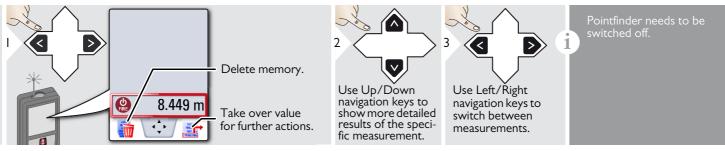
1



Screenshot photo is saved in gallery.

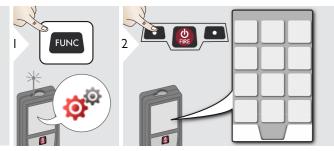


Memory



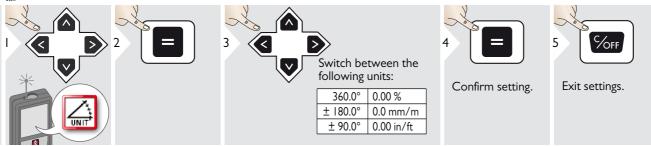
💣 Settings

Overview

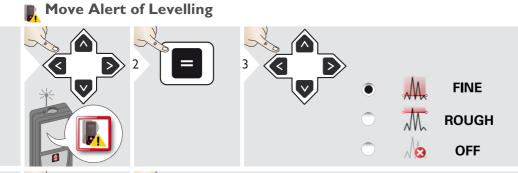


	Tilt units
	Move Alert
·!)	WLAN / Bluetooth [®]
М	Digital level
•	Keypad lock
	Illumination
Š.	Tilt calibration
*	Favorites
*₽	Compass adjustment
3	Touch screen
1	Date and Time
	Distance units
⊿≛Ĵ	Offset
C RESET	Reset
i	Information/Software Update
s j	Веер

Tilt units



💣 Settings



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 con-

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.



Distance units

* *		0.00 m	0.00 ft
	Switch between	0.000 m	0.00 in
	the following units:	0.0000 m	0 in 1/32
		0.0 mm	0'00" 1/32



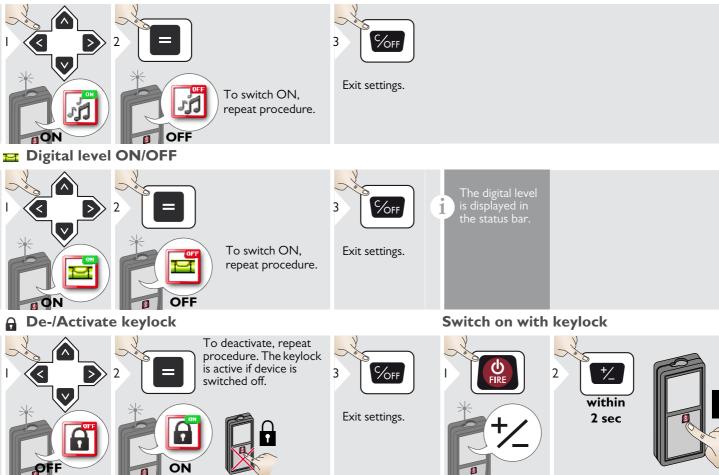


Confirm setting.

Exit settings.

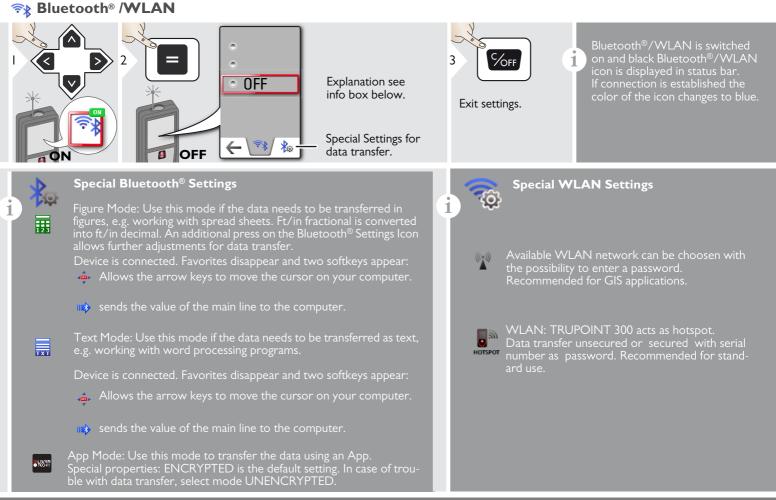
🔊 Settings

为 Beep ON/OFF



Laser Technology Inc. - TruPoint[™] 300

💣 Settings



🔊 Settings

1

Bluetooth[®] data transfer

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

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

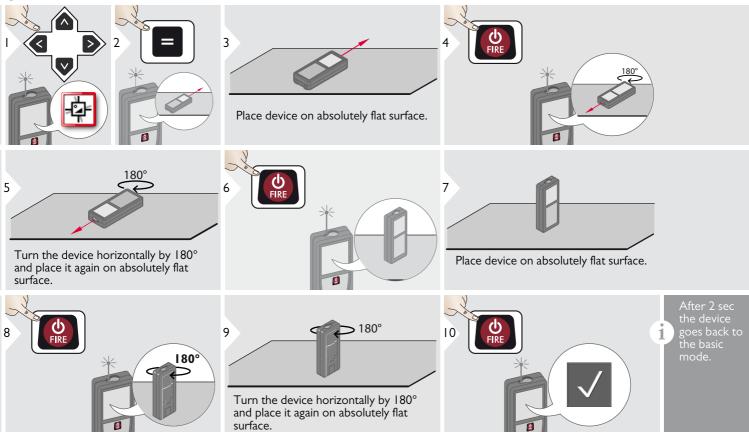
We provide no warranty for free TRUPOINT^M 300 software and offer no support for it. We accept no liability whatsoever arising from the use of the free software and we are not obliged to provide corrections nor to develop upgrades.

WLAN data transfer

1

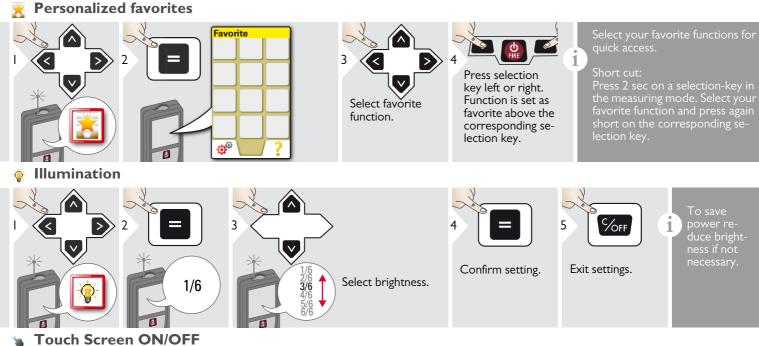
Only data from the function Point Data transmission can be transferred with WLAN. A corresponding program is needed to receive the data.

💣 Settings



EN

💣 Settings



%FF

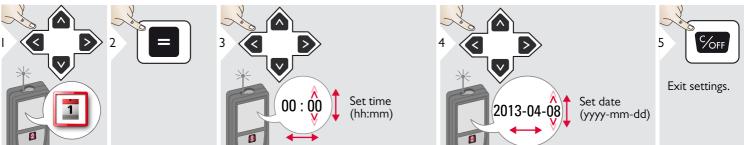


Laser Technology Inc. - TruPoint[™] 300

💏 Settings

i

Date and Time



Compass Adjustment

Adjusting the magnetic declination

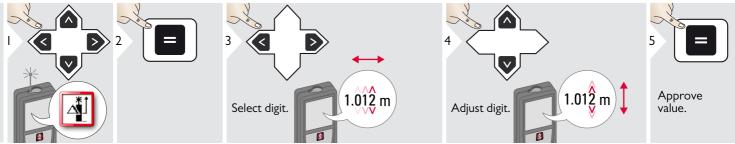
Depending on your geographic location, the angle of declination may vary from other locations, as the geographic and magnetic poles are aligned. However, if the reference location is not selected, the difference in declination between the poles can differ greatly. For best results, select the nearest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



EN

💏 Settings

∆ Offset

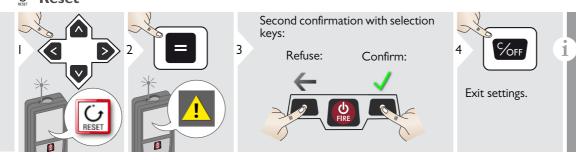




Exit settings.

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.

C Reset



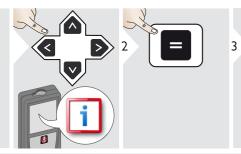
Reset returns the instrument to the factory settings. All customized settings and memories are lost.

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

💣 Settings

i

Information/Software Update

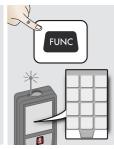




Make sure that you use always the newest software version. Please contact your local authorized Laser Technology, Inc. dealer or visit www.lasertech.com for information regarding possible software updates.

1

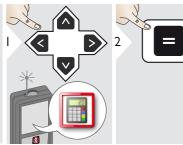
Overview



85	Calculator
\checkmark	Smart Horizontal Mode
P.	Smart Angle measurement
DXF	DXF Folder
\bigcirc	Level
FIRE	Single Distance measurement
M	Missing line measurements
DXF	DXF data capture
	Photo
	Volume
	Smart Area measurement
	WLAN data transmission
	Gallery
\bigcirc	Area

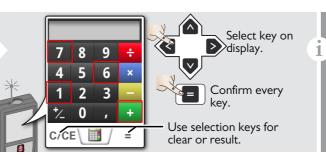
1	Measuring on sloped objects
	Width
۲	Timer
\bigtriangleup	Triangular area
Px Po	Height-profile Measurement
∎∎	Diameter
Ĺ	Adjusting measuring reference
	Pythagoras (2-point)
Px Po	Height Tracking
₩ Î	Area from Photo
+	Compass
Y	Pythagoras (3-point)
	Trapezium
a b b	Stake out

Calculator

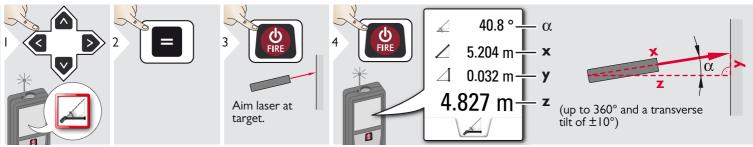


3

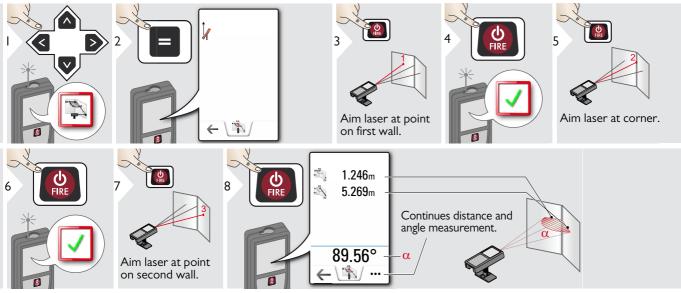
Smart Horizontal Mode



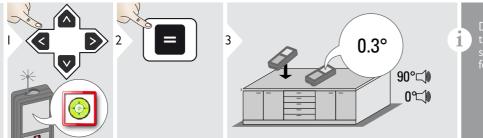
The measurement result from the main line is taken over to the calculator and can be used for further calculations. Ft/in fractions are converted into ft/in decimal. To take over a result from the calculator in the basic mode press ON/FIRE before leaving the calculator function.



Smart Angle measurement

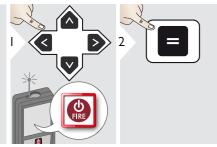


🔬 Level



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

Measuring single distance



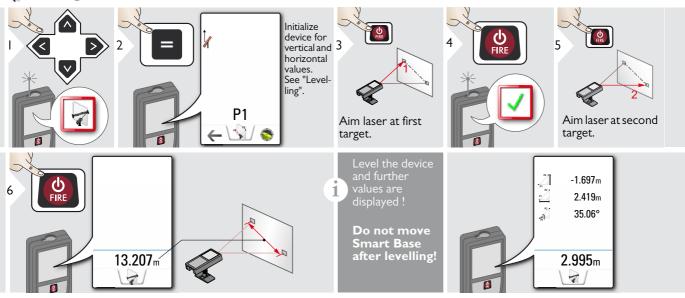




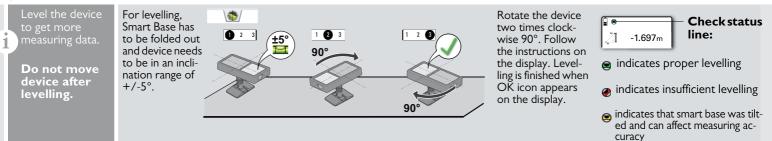
Target surfaces:

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.

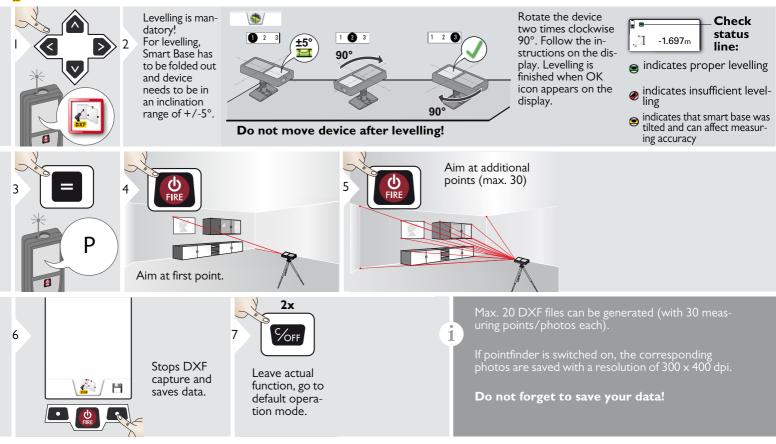
A Missing line measurements



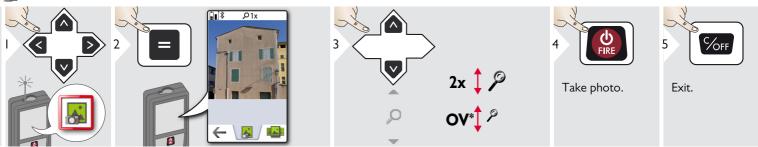
Levelling



🗛 DXF data capture



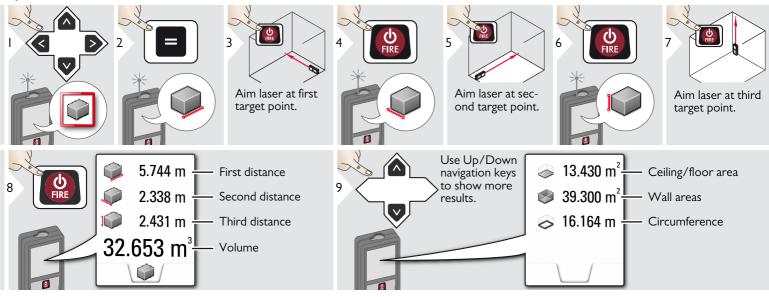
i



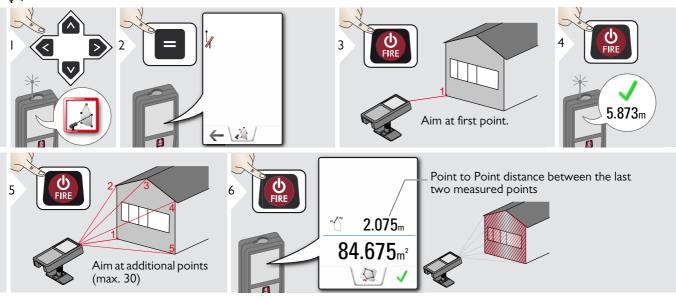
Tap on the camera icon in the middle of the bottom line to take a photo. For screenshots, press camera key for 2 sec.

* OV = Overview

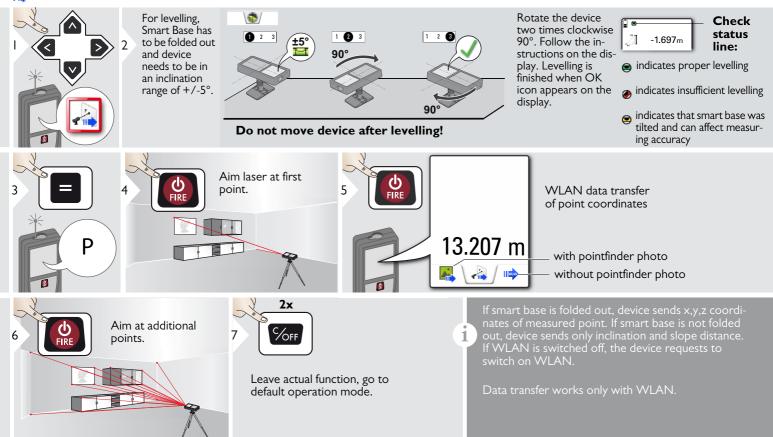
Volume



🔏 Smart Area measurement

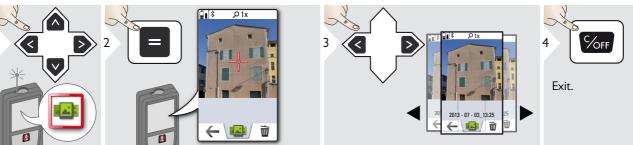


WLAN data transmission



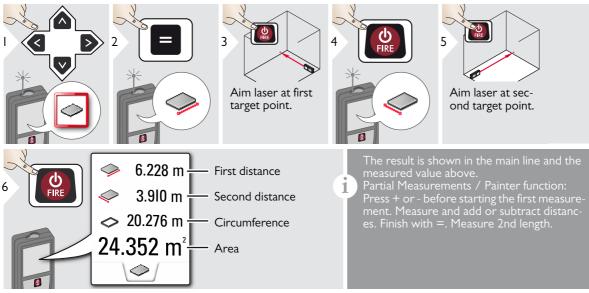
🔊 Gallery

1

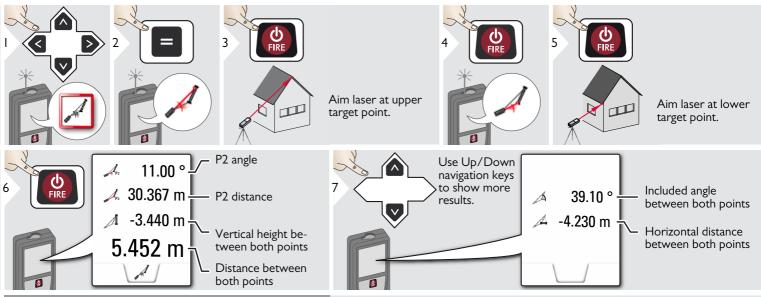


If the device is connected to the computer via USB cable, you can download or delete the gallery. It is not possible to upload any data.

Area



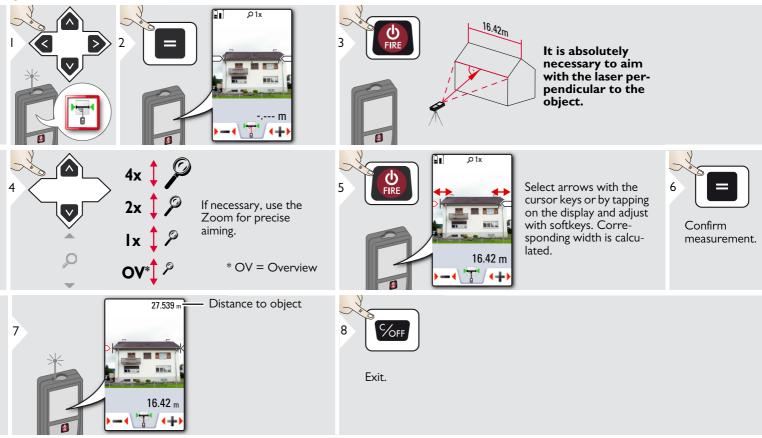
Sloped objects



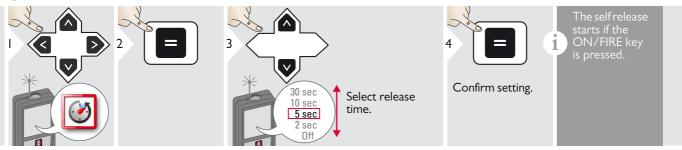
Indirect distance measuring between 2 points with additional results. Ideal for applications such as length and slope of roof, height of chimneys,...

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. EN

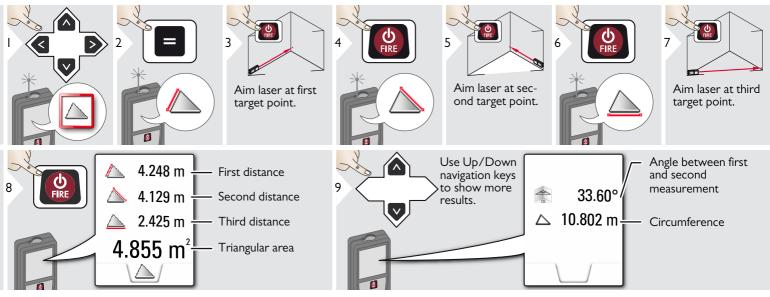
🕆 Width



🧭 Timer



🛆 Triangular area



6

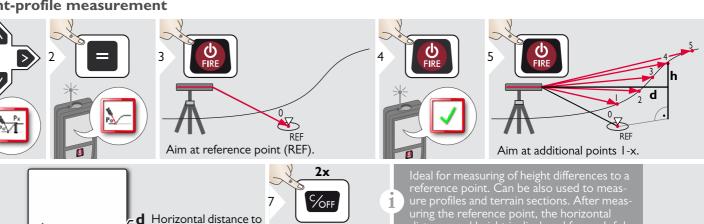
Height-profile measurement

🔰 2.042 m⁄

×.

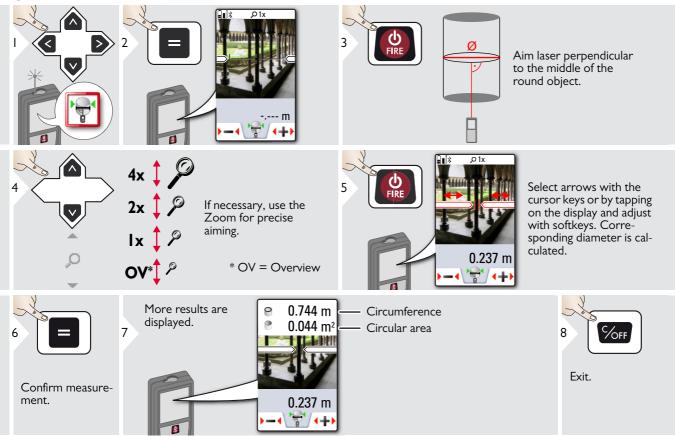
device

0.054 m^{-h} Height difference to reference point (REF).

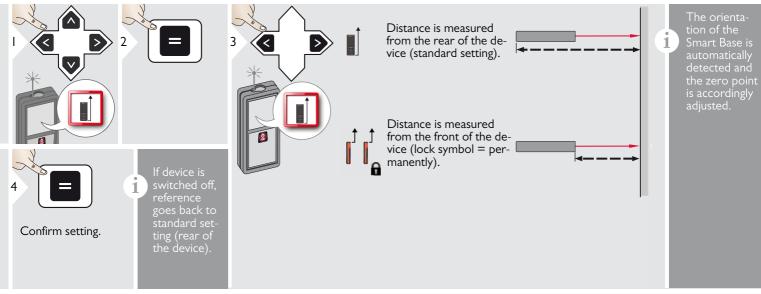


Exit function.

P Diameter



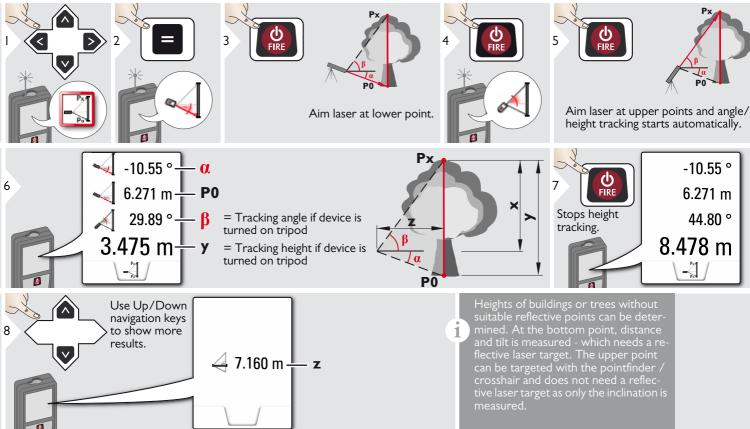
Adjusting measuring reference



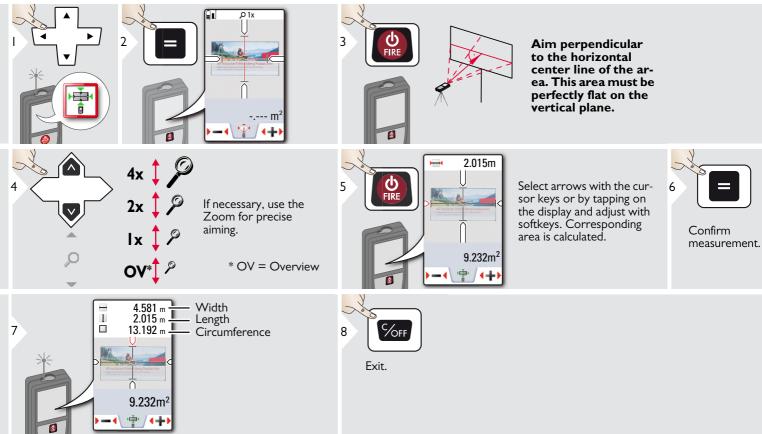
¬ Pythagoras (2-point)

	Aim laser at first target.		Aim laser at second target.
25.133 m 21.383 m 13.207 m		 tivates automatically Mirment. We recommend to use the horizontal measuring. 	key for 2 sec in the function ac- nimum or Maximum measure- the pythagoras only for indirect ertical) it is more precise to use

- Height tracking



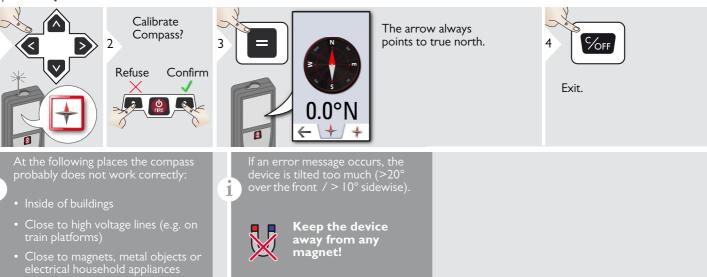
🛉 Area from Photo



Compass

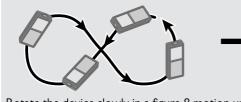
1

i



Calibration of Compass:

The compass has to be calibrated before every first measurement after switching on the device.



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

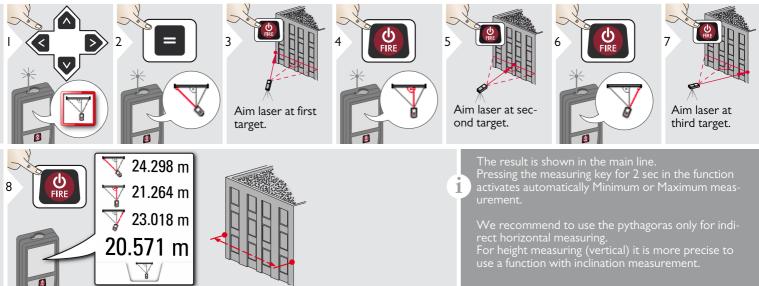


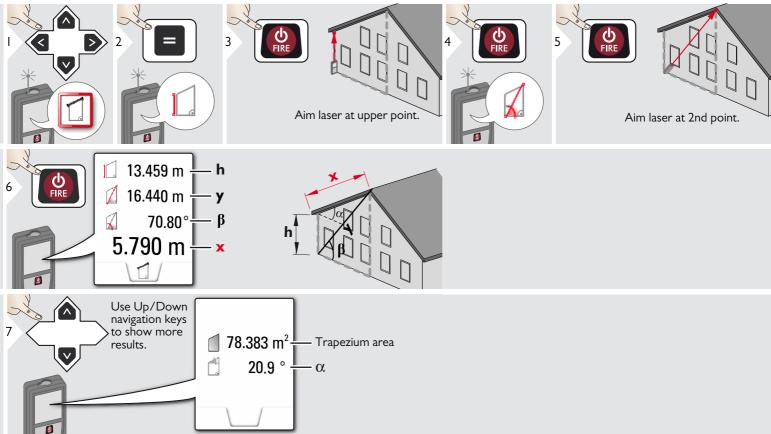
After 2 sec the device goes back to the compass mode.

1

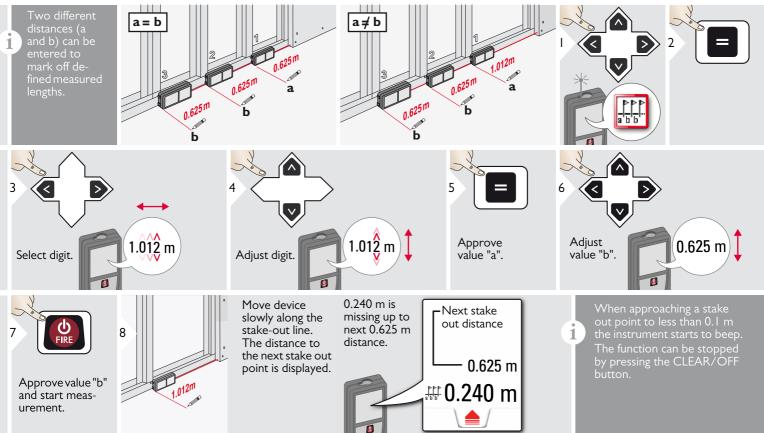
Pythagoras (3-point)

Laser Technology Inc. - TruPoint[™] 300





👯 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
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°

Smart Base	
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 Missing Line func- tion at distances (combination of sensors and distance meas- uring)	approx. : +/- 2 mm / 2 m +/- 5 mm / 5 m +/- 10 mm / 10 m

_

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 [®] Smart	Bluetooth [®] v4.0
Range of Bluetooth [®]	<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	Approx. 4000

Approx. 4 h 5.0 V

ΙA

charge Charging time

Output voltage Charging current * 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° per degree up to +/-45° in each quadrant.

Applies at room temperature. For the whole operating temperature range the maximum deviation increases by +/-01°

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 must be recharged.

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

EN

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 [®] 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
Missing Line function distance	yes
Smart Angle	yes
Smart Area	yes
DXF Data capture	,

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

Laser Technology, Inc. Limited Warranty

Activate your warranty within 30 days from purchase at www.lasertech.com/warranty. Laser Technology, Inc. ("LTI") warrants products it manufactures to be in good working order, free from defects in materials and workmanship, for a period of 24 months from the date of purchase from LTI or an authorized LTI dealer.

Warranty Exclusions

To the fullest extent allowed by law, LTI hereby disclaims all other express or implied warranties for the product, including, without limitation, any warranty as to merchantability or fitness for a particular purpose. This limited warranty does not include service or repair of damage to the product resulting from accident, disaster, misuse, abuse or non-LTI modification of the product. LTI has no obligation to modify or upgrade a product once sold.

Limitation of Liability

In no event will LTI be liable for damages including any lost profits, lost savings or other incidental or consequential damages arising from the use or inability to use such product. Furthermore, LTI shall not be held responsible if an LTI authorized dealer has been advised of the possibility of such damage, or for any claim by another party. Any responsibility and/or liability of LTI shall be limited to the maximum amount to the original purchase price.

Remedy

To obtain service during the two-year warranty period, call LTI's Service Center or visit www.lasertech.com/rma for a Return Merchandise Authorization number. Send the product to LTI or an Authorized Service Center with proof of purchase date.

If the product is delivered by mail, you agree to insure the product or assume the risk of loss or damage in transit, and to prepay shipping costs for door-to-door delivery. LTI will, at its option, repair or replace the product at no additional charge, except as set forth within this limited warranty. Replacement parts and products may be new or reconditioned. Replaced parts or products become the property of LTI.

Ask your LTI sales representative or authorized LTI dealer about extended warranties that may be available.

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:

Laser Technology, Inc. 6912 Quentin ST. Centennial, CO 80112-3921 USA Phone: 1-303-649-1000 Phone: 1-877-696-2584 (USA and Canada) Fax: 1-303-649-9710 Web Site: www.lasertech.com Email: service@lasertech.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.

Safety Instructions

Permitted use

- Measuring distances
- Tilt measurement
- Data transfer with Bluetooth[®] / 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

/!\ WARNING

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.

Please contact your local authorized Laser Technology, Inc. dealer for information regarding proper product disposal.

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.

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, includ-ing interference that may cause undesired operation.

ISED Statement (applicable in Canada)

This device complies with Industry Canada's license-exempt RSSs. 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.

Safety Instructions

Use of the product with Bluetooth®

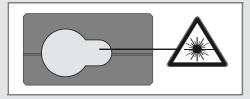
Electromagnetic radiation can cause disturbances in other equipment, in installations (e.g. medical ones such as pacemakers or hearing aids) and in aircraft. It can also affect humans and animals.

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:

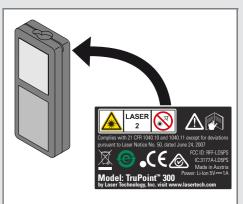
Do not stare into the laser beam or direct it towards other people unnecessarily. Eye protection is normally afforded by aversion responses including the blink reflex.

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.