

Frequently Asked Questions (FAQs)

Leica DISTO™ E7500

- **How many zoom levels does the Leica DISTO™ E7500 have?**

The integrated digital Pointfinder in the device has 1x, 2x and 4x zoom. You can see in the middle of the status bar of the screen, which zoom level you have selected. To change from one zoom level to the next one you have to press the “up/down arrow keys”.
- **Can the brightness in the digital Pointfinder be adjusted?**

Yes, when turning the digital Pointfinder on it is indicated in the display that you can change the brightness with the left and right arrow keys on the keypad.
- **Why is the laser dot on distance on short distances not centered in the crosshair?**

It is the parallax effect due to the distance between the laser window and the digital Pointfinder optics. This effect occurs only when the digital Pointfinder is used on targets below 10m (30ft). In this case the laser dot appears displaced in reference to the crosshair. This is not an error ! For distances below 10m please rely on the real laser dot.
- **Is it possible to obtain detailed information about the measurements taken?**

Yes, it is possible to obtain detailed information in the Leica DISTO™ E7500. If detail information is available this will be indicated with two small arrows in the center of the status bar in the display. You can now navigate with the arrow keys up and arrow key down between the available measurements.
- **What accessories are recommended for the Leica DISTO™ E7500?**

Leica Tripod TRI100

For long distances we recommend using a tripod, even indoors. A tripod provides additional steadiness and therefore allows accurate targeting, especially over long distances. We particularly recommend the Leica TRI100 tripod.

Please note: When using the tripod with its standard tripod head you need to change the measuring reference on the Leica DISTO™ to the tripod thread (in the setting).

Leica Tripod TRI70

For long distances we recommend using a tripod, even indoors. A tripod provides additional steadiness and therefore allows accurate targeting, especially over long distances. We particularly recommend the Leica TRI70 tripod in combination with the adapter TA360.

TA 360 Adapter

In order to achieve more flexibility we are offering the tripod adapter TA360. This adapter is made of aluminum which makes it very stable and accurate to be used as a tripod head. (TRI 100 and TRI70). A major benefit of the TA360 is that you can fix your Leica DISTO™ exactly that way that the tripod tilt and rotating axis and the instrument laser axis meet exactly in one point. This allows to do exact measurements even when turning the unit horizontally.

Please note: When using the TA 360 adapter you don't need to change the measuring reference on your Leica DISTO™ because the tilt axis is exactly at the instrument back end.

Target Plate

For measurement especially outdoors and in very bright conditions it is very helpful to use a target plate. We offer different versions in our accessory range.

- **What is the measuring accuracy when using the direct horizontal measuring function?**

For example, if a distance of 10m (30ft) is measured at an angle of 10°, the error on uncertainty on measurement on the direct horizontal distance (fd) is 6mm.

-> in order to have best results with the direct horizontal distance measurements, considering the deviation of the tilt sensor, use the Leica DISTO™ E7500 as flat as possible.

The horizontal distance error (fd) and the height error (fh) can be calculated as follows:

fd = horizontal distance error

fh = error in height

d = measured distance

a = angle at which the distance is measured

fa = possible angular error

$$fd = d * \cos(a) - d * \cos(a + fa)$$

$$fh = d * \sin(a) - d * \sin(a + fa)$$

Further information and a table of measuring accuracies you can find online in the FAQ under "Measuring Accuracy".

- **Which customer segment would find the Leica DISTO™ E7500 of most use for everyday tasks?**

The Leica DISTO™ E7500 is a great measurement tool for a wide range of target groups and is a superb device that's especially designed for outdoor tasks. The device is particularly suitable, but of course not exclusively, for the following users: Professions who measure (at least partly) outdoor: General Construction, Excavator, Gardener / Landscape, Roofer, Solar panel installer, Metal and glass construction, Painter, Real Estate, Facility Manager, Architects, Innovative users.

- **Can the historical storage memory of 30 values in the device be erased?**

Yes, the memory in the device can be erased by pressing the delete button when in the memory. All memory values will be deleted.

- **Which batteries should I use for the Leica DISTO™ E7500?**

In general you can use any alkaline battery or any rechargeable batteries (2xAA). In the scope of delivery we provide high quality Li-iron batteries (not rechargeable) and we recommend to use such batteries or any (NiMH) batteries.

- **Can I enter a value that is constantly added / subtracted to my measured value? (Offset)**

Yes, in the "Settings" you can go to the "Offset Icon" and enter a value that will constantly be added / subtracted from your measured distance value. If an offset value is entered you will see the adequate symbol - a triangle with plus or respectively minus next to the laser symbol.

-> If you want to set the offset value back to zero, enter the setting "Offset" and reset it.

- **How can I get one extra year of warranty for the Leica DISTO™ E7500?**

Our standard warranty of 2 years can be extended by one additional year if you register your device on our website www.disto.com within eight weeks of the purchase date. If the product is not registered, a two year warranty applies.

- **What does it mean when I attempt a measurement but the unit shows a number on the display versus my measured value?**

This is a message code. The numbers are displayed if a successful measurement could not be performed. The user itself can correct the measuring situation to achieve a measurement. Below you can find the spread sheet from the manual with the corrections:

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 an absolutely horizontal and flat surface. Repeat the calibration procedure. If the mistake still occurs, contact your dealer.
204	Calculation error	Perform measurement again.
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).
257	Too much background light	Shadow target area.
258	Measurement outside of measuring range	Correct range.
260	Laser beam interrupted	Repeat measurement.

- **How can I activate the keypad lock?**

To activate the keypad lock, choose in the settings the lock icon and turn the keypad log on. To deactivate the keypad lock, press ON/DIST key and within 2 sec the plus/minus key.

- **How can I deactivate the keypad lock?**

To deactivate the keypad lock press the ON/DIST key and afterwards (within 2 Sec.) the plus/minus key. Now the keypad lock is deactivated and the device is switched on.

- **Measuring with tripod and FTA 360 – is there anything to consider?**

The measuring reference has to be adjusted to the tripod thread. In the Function Screen choose the reference icon and change the measuring reference to tripod / FTA 360. After switching off the device goes back to the standard setting (rear of device).

Please note: The measuring reference must be changed except when using the tripod adapter TA 360 from Leica. There the tilt axis is exactly at the back end of the Leica DISTO™.

- **Can I use the DISTO™ E7500 with rechargeable batteries?**

Yes, it is possible to use with standard rechargeable batteries. The more powerful the charger system is, the longer you can measure with the Leica DISTO™. We offer a powerful charger system, which is

ideal to use with DISTO™: Leica universal quick charger with 2 Micro AA NiMH batteries. For more information, please check our accessories.

- **What does ISO 16331-1 tested mean?**

When products and services meet our expectations, we tend to take this for granted and be unaware of the role of standards. However, when standards are absent, we soon notice. We care when products turn out to be of poor quality or are unreliable or dangerous. An ISO Standard ensures consistent quality and reliability for a product.

The range and accuracy of laser distance meters depend greatly on lighting conditions and the reflective properties of the target object. For Leica Geosystems it is important that the performance of the device is maintained not only in the test laboratory but even more so on everyday site tasks. Therefore we have worked with external experts to develop a global standard to test and specify laser distance meters and allow comparisons between devices of different manufacturers.

Instruments tested in accordance with ISO 16331-1 achieve their promises. Further information can be found on our website: www.disto.com.

- **How can I program my favorite (mostly used functions) on the self programmable keys?**

Press the left and right top keys for 2 Sec. The icons blink now you can choose the functions you would like to put on the left and right favorite keys. Pressing the left key puts the function on the left side. Pressing the right key puts the function on the right side. It is an easy way to put the functions on the keys that you use most.