

# Leica DISTO™ D510 Laser Distance Meter

## Best outdoor functionality and apps



**NEW: The new Leica DISTO™ D510 stands for easy and effortless outdoor distance measurement. The unique combo of digital Pointfinder & 360° tilt sensor allows measurements which are not possible with conventional distance meters. In addition, with Bluetooth® Smart & attractive free apps, you are prepared for the future.**

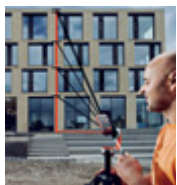
### Features

- Pointfinder with 4x zoom
- IP65 water jet protection and dust-tight
- 360° tilt sensor
- Smart Horizontal Mode™
- Height tracking
- Bluetooth® Smart
- Free App – Leica DISTO™ sketch



#### Simple and precise targeting - Pointfinder with 4x zoom

With the Pointfinder, the Leica DISTO™ D510 takes measurements with perfect accuracy and in unfavorable light conditions. This is a decisive advantage when working outside in sunny weather. Even if the red laser point is no longer visible to the naked eye, the target can be seen exactly in the crosshairs on the display.



#### Unlimited number of measuring options - 360° tilt sensor

The Leica DISTO™ D510 is equipped with a 360° tilt sensor. This means that it is not only possible to measure angles, but horizontal distances too! Combined with the Pointfinder, amazing indirect measurement options are provided. Hence, measurements are possible where no reflective target point is available e.g. when determining the height of a tree or when measuring the height of a reflecting glass facade. These could not be measured with a conventional laser distance meter.



#### Efficient height profile measurement

Using this function, the Leica DISTO™ D510 displays distances and height differences to an established reference point. This makes it easy to quickly make profile measurements, without having to use more expensive measuring methods. Also, this function can be used to check whether cross beams are straight, the levelness of existing floors, among other applications.



#### Quick sketching - Bluetooth® Smart with app

The Leica DISTO™ D510 is capable of more than just measuring. Measurement data can be conveniently and accurately transferred using the integrated Bluetooth® Smart Technology. The free app Leica DISTO™ sketch supports the creation of ground plans or tables on iPhone or iPad. Dimensions can even be entered onto photographs with no effort whatsoever.



#### Modern ergonomics

Providing the simplest possible operation of complex measuring functions is a must for Leica Geosystems. The Leica DISTO™ D510 has been adapted to the user interface of modern cell phones. Furthermore your favourite functions can be assigned to a pair of selection keys, for quick access with a single button press. And the integrated, easy-to-understand help function does not leave you in the lurch on site. CD with Leica



#### Tough and easy to clean - IP65

The housing and keypad are specially sealed against water and dust. Cleaning under running water is also no problem. Furthermore the laser distance meter can be used in all weather conditions, being dust-proof and water jet protected.

## Technical Specifications

|                                   |  |
|-----------------------------------|--|
| Typical measuring accuracy        | ± 1 mm                                     |
| Range                             | up to 200 m                                |
| Measuring units                   | m, ft, in, yd                              |
| Power Range Technology™           | •  |
| Distance in m                     | 10, 50, 100 m                              |
| Ø of the laser dot in mm          | 6, 30, 60 mm                               |
| Tilt sensor measuring range       | 360°                                       |
| Pointfinder with 4x zoom          | •  |
| Memory                            | 30 displays                                |
| Free App                          | •  |
| Data interface*                   | Bluetooth® Smart                           |
| Measurements per set of batteries | up to 5000**                               |
| Multifunctional end-piece         | automatic recognition                      |
| Batteries                         | type AA 2 × 1,5 V                          |
| Tripod thread                     | •  |
| Protection class                  | IP65 – water jet protection and dust-tight |
| Dimensions                        | 143 × 58 × 29 mm                           |
| Weight with batteries             | 198 g                                      |

## Functions

|                                |                       |
|--------------------------------|-----------------------|
| Minimum / maximum measurements | •                     |
| Area / volume measurement      | •                     |
| Triangle / room angle function | •                     |
| Painter function               | •                     |
| Trapezium measurements         | •                     |
| Pythagoras functions           | 2 points and 3 points |
| Inclination tracking           | •                     |
| Smart Horizontal Mode™         | •                     |
| Sloped object measurement      | •                     |
| Height tracking                | •                     |
| Height profile measurements    | •                     |
| Stake-out function             | a/b                   |
| Subtraction / addition         | •                     |

## Packing List

- Leica DISTO™ D510 laser distance meter
- Holster
- Hand loop
- Batteries





## Technical Data

|   | <b>D210</b> | <b>X310</b> | <b>D3a BT</b>                | <b>D510</b>                  |
|---|-------------|-------------|------------------------------|------------------------------|
| Measuring Accuracy                        | ± 1.0 mm    | ± 1.0 mm    | ± 1.0 mm                     | ± 1.0 mm                     |
| Range (From about 80 m, use target plate) | 0.05 to 80m | 0.05 to 80m | 0.05 to 100m                 | 0.05 to 200m                 |
| Power Range Technology                    | Y           | Y           | Y                            | Y                            |
| Distance in m                             |             |             | 10, 50, 100 m                |                              |
| Diameter of laser dot in mm               |             |             | 6, 30, 60 mm                 |                              |
| Tilt sensor - Measuring Range             | -           | 360°        | ± 45°                        | 360°                         |
| Tilt sensor - Accuracy to the laser beam  | -           | ±0.2°       | ± 0.3°                       | -0.1° / +0.2°                |
| Tilt sensor - Accuracy to the housing     | -           | ±0.3°       | ± 0.3°                       | ±0.3°                        |
| Units in tilt sensor                      | -           | 0.0°, 0.0%  | 0.0°, 0.0%                   | 0.0°, 0.00%                  |
| Minimum / Maximum measurement             | Y           | Y           | Y                            | Y                            |
| Continuous Measuring                      | Y           | Y           | Y                            | Y                            |
| Addition / Subtraction                    | Y           | Y           | Y                            | Y                            |
| Area / Volume measurement                 | Y           | Y           | Y                            | Y                            |
| Triangle Function                         | -           | Y           | Y                            | Y                            |
| Room Angle Function                       | -           | Y           | Y                            | Y                            |
| Painter Function                          | Y           | Y           | Y                            | Y                            |
| Trapezium measurements                    | -           | -           | -                            | Y                            |
| Pythagoras functions                      | Y           | Y           | Y                            | Y                            |
| Room calculations                         | -           | -           | Y                            | Y                            |
| Smart Horizontal Mode                     | -           | Y           | Y                            | Y                            |
| Double tilt measurement                   | -           | -           | -                            | Y                            |
| Height tracking                           | -           | Y           | -                            | Y                            |
| Height profile measurements               | -           | -           | -                            | Y                            |
| Stake out function                        | a/a         | a/b         | a/b                          | a/b                          |
| Digital viewfinder with 4x zoom           | -           | -           | -                            | Y                            |
| Stores constant values                    | -           | -           | 1                            | 1                            |
| Recall last values                        | 10          | 10          | 20                           | 30                           |
| Time delay release                        | -           | Y           | Y                            | Y                            |
| Display illumination                      | Y           | Y           | Y                            | Y                            |
| Free software                             |             |             | Y                            | Y                            |
| Data Interface                            |             |             | Bluetooth (Class 2)          | Bluetooth® Smart             |
| Hand loop                                 | Y           | Y           | Y                            | Y                            |
| Holster                                   | Y           | Y           | Y                            | Y                            |
| Measurements per set of batteries         | up to 5,000 | up to 5,000 | up to 5,000<br>(< Bluetooth) | up to 5,000<br>(< Bluetooth) |
| Multifunctional end piece                 | Y           | Y           | Y                            | Y                            |
| Tripod thread                             | -           | Y           | Y                            | Y                            |
| Batteries                                 | AAA 2x1.5V  | AAA 2x1.5V  | AAA 2x1.5V                   | AA 2x1.5V                    |
| Splash proof / dust proof (IP54)          | IP54        | IP65        | IP54                         | IP65                         |
| One Year Warranty                         | Y           | Y           | Y                            | Y                            |
| Dimensions                                | 114x50x27mm | 122x55x31mm | 125x45x24mm                  | 143x58x29mm                  |
| Weight including batteries                | 126g        | 155g        | 150g                         | 205g                         |