

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.



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.



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.



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





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.



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



Which instrument is the right one for me?



Technical Data	D1	D110	D2	X310	D410	D510	D810 touch	S910
Distance measurement Minimum/maximum measurements	40m	60m	100m	120m	150m	200m	200m	300m
Area / volume measurements	-	Area	Y	Y	Y	Y	Y	Y
Triangle/room angle function	-	-	-	Y	-	Y	Y	Y
Painter function	-	-	Y	Y	Y	Y	Y	Y
Trapezium function	-	-	-	-	-	Y	Y	Y
Pythagoras functions	-	-	Y	Y	Y	Y	Y	Y
Tilt measurement	-	-	-	360°	-	360°	360°	360°
Smart Horizontal Mode	-	-	-	Y	Y	Y	Y	Y
Sloped object measurement	-	-	-	-	-	Y	Y	Y
Height tracking	-	-	-	Y	-	Y	Y	Y
Height profile measurements	-	-	-	-	-	Y	Y	Y
Stake-out function	-	-	a/a	a/b	a/b	a/b	a/b	a/b
Subtraction/addition	-	-	Y	Y	Y	Y	Y	Y
Pointfinder with 4x zoom	-	-	-	-	Y	Y	Y	Y
Camera function	-	-	-	-	-	-	Y	Y
Measure with the picture	-	-	-	-	-	-	Y	Y
Timer	-	-	Y	Y	Y	Y	Y	Y
Personalised favourites	-	-	-	-	Y	Y	Y	Y
Touch screen	-	-	-	-	-	-	Y	Y
Compass	-	-	-	-	-	-	Y	Y
Point-to-Point measurements	-	-	-	-	-	-	-	Y
Smart angle measurement	-	-	-	-	-	-	-	Y
Smart area measurement	-	-	-	-	-	-	-	Y
DXF data capture	-	-	-	-	-	-	-	Y
WLAN data transmission	-	-	-	-	-	-	-	Y
Bluetooth Smart	Y	Y	Y	-	-	Y	Y	Y

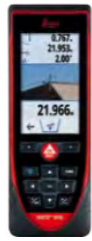


Distance Meter Specifications



Technical Data	D1	D110	D2	X310
Measuring Accuracy	± 2.0 mm	± 2.0 mm	± 1.5 mm	± 1.0 mm
Range (From about 80 m, use target plate)	0.2 to 40m	0.2 to 60m	0.2 to 100m	0.05 to 120m
Power Range Technology	-	-	-	Y
X-Range Power Technology	Y	Y	Y	-
Distance in m	10 m	10, 50 m	10, 50, 100 m	10, 50, 100 m
Diameter of laser dot in mm	6 mm	6, 30 mm	6, 30, 60 mm	6, 30, 60 mm
Tilt sensor - Measuring Range	-	-	-	360°
Tilt sensor - Accuracy to the laser beam	-	-	-	±0.2°
Tilt sensor - Accuracy to the housing	-	-	-	±0.3°
Units in tilt sensor	-	-	-	0.0°, 0.0%
Smart Base Measuring Range - Horizontal	-	-	-	-
Smart Base Measuring Range - Vertical	-	-	-	-
Distance in m	-	-	-	-
Typical Tolerance of the P2P function	-	-	-	-
Levelling range	-	-	-	-
Levelling accuracy	-	-	-	-
Pointfinder with 4x zoom	-	-	-	-
Overview camera	-	-	-	-
Picture file format	-	-	-	-
Memory	-	-	10 results	20 displays
Memory for pictures	-	-	-	-
CAD data format	-	-	-	-
Memory for CAD files	-	-	-	-
Time delay release (timer)	-	-	Y	Y
Display illumination	Y	Y	Y	Y
Free software for Windows	Y	Y	Y	-
Free App	IOS / Android	IOS / Android	IOS / Android	-
Data interface*	Bluetooth SMART	Bluetooth SMART	Bluetooth SMART	-
Measurements per set of batteries	up to 10,000	up to 10,000	up to 10,000	up to 5,000
Service life of battery	up to 20 hours	up to 20 hours	up to 20 hours	up to 10 hours
Multifunctional end-piece	-	-	Y	Y
Tripod thread	-	-	-	Y
Batteries	AAA 2x1.5V	AAA 2x1.5V	AAA 2x1.5V	AAA 2x1.5V
Charging time	-	-	-	-
Protection class	IP54	IP54	IP54	IP65
Dimensions	115x43.5x23.5mm	120x37x23mm	116x44x26mm	122x55x31mm
Weight with batteries	87g	92g	100g	155g





Technical Data

	D410	D510	D810 touch	S910
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 150m	0.05 to 200m	0.05 to 200m	0.05 to 300m
Power Range Technology	Y	Y	Y	
X-Range Power Technology				Y
Distance in m	10, 50, 100 m	10, 50, 100 m	10, 50, 100 m	10, 50, 100 m
Diameter of laser dot in mm	6, 30, 60 mm	6, 30, 60 mm	6, 30, 60 mm	6, 30, 60 mm
Tilt sensor - Measuring Range	-	360°	360°	360°
Tilt sensor - Accuracy to the laser beam	-	+0.2°	-0.1° / +0.2°	-0.1° / +0.2°
Tilt sensor - Accuracy to the housing	-	±0.2°	±0.1°	±0.1°
Units in tilt sensor	-	0.0°, 0.00%	0.0°, 0.00%	0.0°, 0.00%
Smart Base Measuring Range - Horizontal	-	-	-	360°
Smart Base Measuring Range - Vertical	-	-	-	-40° to 80°
Distance in m	-	-	-	2, 5, 10m
Typical Tolerance of the P2P function	-	-	-	2, 5, 10mm
Levelling range	-	-	-	±5°
Levelling accuracy	-	-	-	±0.05°
Pointfinder with 4x zoom	Y	Y	Y	Y
Overview camera	-	-	Y	Y
Picture file format	-	-	.jpg	.jpg
Memory	30 displays	30 displays	30 displays	50 displays
Memory for pictures	-	-	80 Photos	80 Photos
CAD data format	-	-	-	.dxf
Memory for CAD files	-	-	-	20 files, 30 points ea
Time delay release (timer)	Y	Y	Y	Y
Display illumination	Y	Y	Y	Y
Free software for Windows	-	-	Y	Y
Free App	-	IOS / Android	IOS / Android	IOS / Android
Data interface*	-	Bluetooth SMART	Bluetooth SMART	Bluetooth SMART, WLAN
Measurements per set of batteries	up to 5,000	up to 5,000	up to 4,000	up to 4,000
Service life of battery	up to 10 hours	up to 10 hours	up to 8 hours	up to 8 hours
Multifunctional end-piece	Y	Y	Y	-
Tripod thread	Y	Y	Y	Smart Base
Batteries	AA 2x1.5V	AA 2x1.5V	Li-ion rechargeable	Li-ion rechargeable
Charging time	-	-	4h	4h
Protection class	IP65	IP65	IP54	IP54
Dimensions	143x58x29mm	143x58x29mm	164x61x31mm	164x61x32mm
Weight with batteries	198g	198g	238g	290g

