

Leica DISTO™ D810 Laser Distance Meter

The smartest solution to measuring and documenting



World's first: The Leica DISTO™ D810 touch is the first laser distance meter world-wide with a touch screen, allowing for quick and intuitive operation. Another revolutionary feature allows for measurements with pictures. Due to the integrated camera it is also possible to take pictures and download them with the USB-interface to a computer. The high functionality is perfectly completed by the smart free app "Leica DISTO™ sketch".

- Touchscreen
- Pointfinder with 4x zoom and overview camera
- Camera function with USB download
- Measure with a picture
- Precise 360° tilt sensor
- Smart Horizontal Mode™
- Height tracking
- Bluetooth® Smart
- Free App – Leica DISTO™ sketch
- Li-Ion battery



Simply touch-it!

Large touch screen for quick and intuitive operation. Using common gestures such as swipe and zoom with two fingers, all the functions are simply and easily accessible. Measurements can also be taken using the touch screen. This avoids unintentionally moving the Leica DISTO™ D810 touch during the measurement.



Measure with a picture

It has never been easier to determine the width, height, area or even the diameter of an object. One measurement at right angles to the object is all it takes. Then the desired dimension is marked using two arrows in the picture and the measured value appears in the display. In addition to the zoom stages on the Pointfinder, an overview camera is available for large objects.



Documentation using pictures

The camera function on the Leica DISTO™ D810 touch can be used to create pictures or screen shots for recording purposes, which can then be downloaded to a computer via the USB interface. No details about the measured target points need be lost.



Highest precision

The Leica DISTO™ D810 touch offers a number of indirect measuring functions. Due to the specially developed tilt sensor the results are very precise. Even more accurate results can be achieved using the Leica FTA360 tripod adapter with its fine adjustment allowing exact targeting.



Flexible data transfer

In keypad mode, you can link your Leica DISTO™ D810 touch to your computer and send measured values in the form of a keyboard entry to any program. This provides a high degree of flexibility.



Bluetooth® Smart and new free App – „Leica DISTO™ sketch“

The further developed App "Leica DISTO™ sketch" is the ideal link between the Leica DISTO™ with Bluetooth® Smart and a smartphone or a tablet. It allows you to create fast scaled drawings, dimension objects in pictures and checking construction drawings. It is even possible to integrate detailed sketches in an existing sketch, e.g. to a plan view. This allows you to have all the information together in a single document. The files can then be sent by e-mail directly to the office.



ISO Standard 16331-1 – The standard for laser distance meters

Range and accuracy of laser distance meters depend on light conditions and the reflectiveness of the measuring target. For Leica it is important that the instruments not only perform under perfect laboratory conditions, but above all under the kind of everyday working conditions encountered on construction sites. This is why, working together with external experts, the company has developed a standard by which laser distance meters can be tested and compared with each other.

Technical Specifications

Typical measuring accuracy	± 1 mm
Range	up to 200 m
Measuring units	m, ft, in
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	•
Overview camera	•
Photograph file format	.jpg
Memory	30 displays
Free software for Windows	•
Free App	iOS / Android
Data interface*	Bluetooth® Smart
Measurements per set of batteries	up to 4000**
Multifunctional end-piece	automatic recognition
Batteries	Li-ion rechargeable
Tripod thread	•
Protection class	IP 54
Dimensions	164x61x31 mm
Weight with batteries	238 g

Functions

Distance measurement	•
Minimum / maximum measurement	•
Area / volume measurement	•
Trapezium function	•
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
Pictures / screenshots	•
Gallery with USB-download	•
Measure with the picture	•
Compass	•
Calculator	•



Supported iOS devices:

iPhone 4S & 5
 iPad mini, 4 & 4
 iPod touch (5th Generation)
 Smartphones and tablets with An-droid 4.3 or higher
 Tablets with Windows 8 or higher

Wireless connectivity

Bluetooth® 4.0
 Bluetooth® 4.0
 Bluetooth® 4.0
 Bluetooth® 4.0
 Bluetooth® 4.0

Data transfer

with App or keypad mode*
 with App or keypad mode*
 with App or keypad mode*
 with App
 keypad mode*

Packing List

- Leica DISTO™ D810 touch laser distance meter
- Holster
- Hand loop
- USB charger incl. 4 plugs

Distance Meter Specifications



Technical Data

	D210	X310	D3a BT	D510	D810
Measuring Accuracy	± 1.0 mm	± 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	0.05 to 200m
Power Range Technology	Y	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°	360°
Tilt sensor - Accuracy to the laser beam	-	±0.2°	± 0.3°	+0.2°	-0.1° / +0.2°
Tilt sensor - Accuracy to the housing	-	±0.3°	± 0.3°	±0.2°	±0.1°
Units in tilt sensor	-	0.0°, 0.0%	0.0°, 0.0%	0.0°, 0.00%	0.0°, 0.00%
Minimum / Maximum measurement	Y	Y	Y	Y	Y
Continuous Measuring	Y	Y	Y	Y	Y
Addition / Subtraction	Y	Y	Y	Y	Y
Area / Volume measurement	Y	Y	Y	Y	Y
Triangle Function	-	Y	Y	Y	Y
Room Angle Function	-	Y	Y	Y	Y
Painter Function	Y	Y	Y	Y	Y
Trapezium measurements	-	-	-	Y	Y
Pythagoras functions	Y	Y	Y	Y	Y
Room calculations	-	-	Y	Y	Y
Smart Horizontal Mode	-	Y	Y	Y	Y
Double tilt measurement	-	-	-	Y	Y
Height tracking	-	Y	-	Y	Y
Height profile measurements	-	-	-	Y	Y
Stake out function	a/a	a/b	a/b	a/b	a/b
Digital viewfinder with 4x zoom	-	-	-	Y	Y
Overview camera					Y
Photograph file format					.jpg
Stores constant values	-	-	1	1	1
Recall last values	10	10	20	30	30
Time delay release	-	Y	Y	Y	Y
Display illumination	Y	Y	Y	Y	Y
Free software for Windows			Y		Y
Free app			Android	Android / IOS	Android / IOS
Data Interface			Bluetooth (Class 2)	Bluetooth®Smart	Bluetooth®Smart
Measurements per set of batteries	up to 5,000	up to 5,000	up to 5,000	up to 5,000	up to 4,000
Multifunctional end piece	Y	Y	Y	Y	Y
Tripod thread	-	Y	Y	Y	Y
Batteries	AAA 2x1.5V	AAA 2x1.5V	AAA 2x1.5V	AA 2x1.5V	Li-Ion Rechargeable
Charging Time					4h
Splash proof / dust proof (IP54)	IP54	IP65	IP54	IP65	IP54
One Year Warranty	Y	Y	Y	Y	Y
Dimensions	114x50x27mm	122x55x31mm	125x45x24mm	143x58x29mm	164x61x31mm
Weight including batteries	126g	155g	150g	198g	238g