

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



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 have 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



Packing List

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



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

