

# Leica DISTO™ S910 Laser Distance Meter

For measurements that play hard to get



Measure fast and precise distances between any two points from one location with the Leica DISTO™ S910 laser distance meter. Easily create as built documentation, calculate roof dimensions and integrate data into BIM or CAD software to create 3D visualizations. This improved workflow saves valuable time and money – all this at a range of up to 300 m.

The Leica DISTO S910 is the first LDM that captures multiple, accurate measurements in three dimensions from a single location, radically improving the efficiency of common measuring tasks.

## SmartBase

Smart Base -- a biaxial pivot integrated with the circuit board -- is the key hardware innovation. Combined with a more powerful laser, a 360° tilt sensor, and new software --SmartBase enables the S910 to measure the distances and angles between multiple points.

## SmartBase facilitates three new remote measurement functions:

- Point to Point (P2P): Measure the tie distance between two points, even if you are hundreds of feet from your target. Shoot Point 1 then Point 2 and the S910 displays the distance between them. Widths, heights, diagonals, gaps, it doesn't matter: Just measure the start and end point and the distance is displayed.
- Smart Area: Shoot the corners of any polygon to determine the area of walls, floors, even complex roof shapes.
- Smart Angle: Shoot three points to measure any angle (including outside angles, which is a first).

## Use a Tripod

For maximum accuracy the SmartBase requires a simple level check. This guarantees the electronic level of the S910 is within  $\pm 0.1^\circ$  of true level. For the highest measuring accuracy you will want to use a tripod for the majority of P2P, Smart Angle and Smart Area functions. The S910 includes a metal insert for a  $\frac{1}{4}$ " tripod thread, found at the bottom of the SmartBase (and a  $\frac{5}{8}$ " adaptor is available).



## FTA 360-S Tripod Adaptor

Even with a tripod and outdoor pointfinder camera, placing your laser point exactly where you want it can be challenging, especially at longer distances. The FTA 360-S is a micro-adjustable tripod adaptor. Point and shoot to get close, then tweak the knobs ever so slightly to adjust your spot by millimeters.

(A package with an S910, and FTA-S and a TRI-70 tripod is available here.)

## Capture and Export Measurement Data

The S910 connects to compatible mobile apps with Bluetooth and exports DXF files over WiFi.



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## Leica DISTO S910 'When it needs to be Right. ..refer to Leica Solutions'



### Leica DISTO S910 Shown with SmartBase

A pivotal base and stand, integrated with the circuit board, to allow measurement between two points for distance and angle.



### Multiple charging options

Whether you are measuring across town or across the world the Leica S910 offers different charging options to keep you ready for that next job.



### Accuracy & Range Standards

This standard sets benchmarks for range and accuracy of laser distance meters. Only Leica LDMs meet these tough standards, not only in the lab but outstanding performance on the jobsite.



### Tripod Adapter FTA 360-S

With the addition of an adjustable tripod adapter (FTA 360-S) and traditional tripod this unit can be used on any terrain and any conditions. ..period!

## Technical Specifications

ISO 16331-1 certified measuring accuracy (favorable conditions)	1.0mm
ISO 16331-1 certified measuring accuracy (unfavorable conditions)	2.0mm
ISO 16331-1 certified range (favorable conditions)	0.05m - 300m
ISO 16331-1 certified range (unfavorable conditions)	0.05m - 150m
Smart Base vertical range	-40° to 80°
Smart Base vertical sensor tolerance	up to +/- 0.1°
Smart Base horizontal range	360°
Smart Base horizontal tolerance	up to +/- 0.1°
Tolerance P2P function at distances (combination of sensors and distance measuring)	approx. : +/- 2 mm / 2 m
	+/- 5 mm / 5 m
	+/- 10 mm / 10 m
	0.000 m, 0.0000 m, 0.00 m
Measuring units	Yes
X-Range Technology	



## 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

	<b>D1</b>	<b>D110</b>	<b>D2</b>	<b>X310</b>
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

	<b>D410</b>	<b>D510</b>	<b>D810 touch</b>	<b>S910</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 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

