Leica Geosystems

S910 Technical Data – US Standard
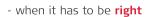
Range	2" to 984'
Accuracy	± 0.04"
Measuring units	m, ft, in, decimal, fraction
Smallest unit of measure	0.004"
X-Range Power Technology	Yes
Laser class	2
Laser type	635nm, 1mW
IP Class	IP54
Display illumination	Yes, adjustable
Angle measurements using tilt sensor	360º
Tilt sensor	Yes
Tilt sensor accuracy to the laser beam	-0.1°/+ 0.2°
Tilt sensor accuracy to the housing	± 0.1°
Units in the tilt sensor	0.0°, 0.00 %, mm/m, in/ft
Pointfinder with zoom	1x, 2x & 4x
Additional overview camera	Yes
Picture file format	jpg
Picture memory	80

Leica Geosystems
Technical Data Continued

Smart Base measuring range	
Horizontal	360°
Vertical	−40° to 80°
Tolerance of the P2P function	6.6' = ±0.08", 16.4' = ±0.2", 33' = ±0.39"
Leveling range	± 5°
CAD data format on device	dxf
Memory for CAD files on device	20 files x 30 points
Memory for last measurements	50
Free software for Windows	Yes
Free App for iOS and Android	Yes
General data interface	Bluetooth® Smart
Data interface for 3D point data	WLAN
Measurements per set of batteries	Up to 4,000*
Service life of batteries	Up to 8 h*
Tripod thread	1/4"
Batteries	Li-Ion 2.6 Ah rechargeable
Charging time	4 h
Dimensions	6.46 x 2.4 x 1.3"
Weight with batteries	10.2 oz
Temperature range - storage	-13º F to +140º
Temperature range - operation	+14º F to +122º

Leica Geosystems
Technical Data Continued

Features	
Point-to-Point Technology (P2P)	Capture 3D measurements between 2 or more points from a safe position on the ground. Measure irregular shapes or hard to reach points
Bluetooth Keyboard Mode	You do not need additional software to transfer measurements directly into excel or word documents. Transfer your data direct to a PC. Use your DISTO for navigation or many other options in 3rd party software
WiFi +USB	Export your CAD files to your computer quick and easy without data loss and absolutely reliable
Digital Pointfinder	Zoom in your target (1x, 2x & 4x) and measure long distance even in bright sunny conditions
Color 3.2" graphic display	A clear picture and exact view of the measuring target even on long distances
Touch screen	Functionality
Profile measurement	Make simple leveling on a construction site where you need to know the height differences of certain points
Bluetooth 4.0	Transfer your data direct to a PC
Accuracy of ±0.04"	Precise measurements up to 984'
Functions	
Point to point measurements	The integrated Smart Base enables it to measure distance between any 2 points from 1 location. The combination of the Smart Base and integrated tilt sensor opens up new possibilities
DXF Data capture	3D DXF measurements

Leica Geosystems
Technical Data Continued

Pointfinder camera measuring	Used to create a reference point for exterior, bright sunlight & long-distance measurements when the laser point is not visible
Measure in picture 1	Measure distance, area and diameter
Measure in picture 2	Measure width or area of an object with a single photo
Measure in picture 3	Measure diameter: take a picture and get the exact values of cylindrical objects
Photo gallery documentation	Which can be downloaded to a computer via USB interface. No detail about the measured target points need to be lost
Indirect smart horizontal distance	Ability to measure distance between points using Pythagoras calculation, 2 point uses one triangle and 3 point uses 2 triangles
Height tracking	Heights of buildings or other targets without suitable reflective points can be determined, At the bottom point, distance and tilt are measured to reflective targets. The upper point can be targeted with the digital Pointfinder and does not need a reflective target as only the inclination (tilt angle) is needed
Long Range Mode	984'
Distance (key or touch)	
Min/Max tracking	Measure consistently to find low/high point
Addition / subtraction	Distances, areas or volumes can be added or subtracted easily
Area included room data	Painter function
Volume included room data	HVAC function
Calculator	
Smart area measurements	

Leica Geosystems
Technical Data Continued
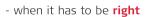
WLAN data transmission	
Height profile measuring	
Tilt measurement	Measures the tilt angle within 360º. Used in Pythagoras calculations with the ability to measure distance between points. 2 point uses one triangle and 3 point uses 2 triangles to get the direct horizontal distance with the press of a button
Compass	
Pythagorean 1, 2 & 3	Allows distances to be determined when direct measurement is impossible. The distance is automatically calculated from 2 to related measurements
Trapezoid 1 & 2	Measure the slope of a roof without the use of ladders. Ability to measure distance between points using Pythagoras calculation, 2 point uses one triangle and 3 point uses 2 triangles
Sloped objects	Measure the slope of a roof without the use of ladders. Ability to measure distance between points using Pythagoras calculation, 2 point uses one triangle and 3 point uses 2 triangles
Save and adjust constant	the saved constant "C" can be adjusted to any desired number that is required
Stake out	To stake out equal distances enter the distance once and measure over-and-over again. The display guides you from post to post by showing the multiple of the stake out distance and the distance to the next post
Memory	Last 50 displays

Leica Geosystems
Technical Data Continued

Reference switching	standard setting is at the rear of the device. Press the reference key once to make a singular measurement from the front. In the menu you can switch the reference to a ¼" threaded tripod mount
Fold out end-piece	No, the reference needs to be adjusted manually in the reference settings menu
Timer	The Timer automatically counts down to zero and then takes the measurement – eliminating hand movement when taking measurements. 30, 5 & 2 second delay options are available
Bluetooth + DISTO Apps +USB	Connectivity
Function with DISTO Plan and FTA 360-S	
Sketch on Photo	Capture complex shapes (rooms, facades) and export those to CAD
Sketch Plan	Create a sketch on a smartphone or tablet and assign distance measurements taken with a DISTO to each line. The app's 'auto-scale' function adjusts the lines' length and the result is a scaled, CAD ready plan
Measure Plan	Point-to-Point technology and the app's 'Measure Plan' and 'Measure Façade' functions make it possible to create detailed floor and wall plans, including doors and windows. Those are easily exported from the app as DXF or DWG files to be further processed in a preferred CAD solution.

Leica Geosystems
Technical Data Continued

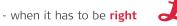|	
Measure Facade	Point-to-Point technology and the app's 'Measure Plan' and 'Measure Façade' functions make it possible to create detailed floor and wall plans, including doors and windows. Those are easily exported from the app as DXF or DWG files to be further processed in a preferred CAD solution.
Measure Hidden Corners	The DISTO Plan app's 'Measure Plan' and 'Measure Façade' function makes it easy to measure points which are not visible from the measurement position. Simply take the measurements and the app then automatically calculates the hidden corner points.
Earthworks	Determine the volume of an excavation with P2P technology. This functionality also allows for complex volume measurements by taking the angle of the slopes between the top and the bottom of the excavation into account
Connectivity	The ability to export jpg, pdf, dxf, dwg data to another device
Organizer	Organize into 4 categories: All, Projects, Sketch on Photo & Plans and export in jpg, pdf and 2D & 3D dwg/dxf format
Applications	
3D DXF Measurements	Minimum required device
Long outdoor distances	Measure long distances to small targets and aim easily with the integrated camera and big color display
Measure in picture	Distance, area and diameter; Measure width or area of an object by a single photo; Measure diameter: take a picture and get the exact values of cylindrical objects
USB interface	Transfer screenshots to your PC for documentation or post processing

Leica Geosystems
Technical Data Continued

Smart Horizontal distance	Get the exact horizontal distance with an obstructed view
Slope of roof	Get the slope-distance
Quick measurement of heights	
Profile measurement	Get the height profile of the landscape or check the level
Area determination	With the ability to combine sub totals
Volume determination	With the ability to combine sub totals
Min/Max	Measuring from edges and corners for diagonal values
Floor plans	Generate realistic and scaled floor plans automatically with DISTO Plan App
Scope of Delivery	
DISTO S910	
Li-Ion battery & charger	
Hand loop	
Holster	
Corner measurement adapter	For corner measurements
Disto transfer software	Not include but can be downloaded for free
Quickstart	
Manufactures Certificate of Accuracy	

*Reduced when used with Bluetooth® or WLAN