

Leica Geosystems

X3 Technical Data – US Standard

Range	2" to 492'
Accuracy ±	± 0.04"
Smallest unit displayed	0.04"
Measuring units	m, ft, in, decimal, fraction
X-Range Power Technology	Yes
Laser class	2
Laser type	635nm, <1mW
IP class	IP65
6.6' drop tested	Yes
Display illumination	Yes, adjustable
Fold out end piece	Yes, automatic
Automatic reference detection for endpiece	Yes
Angle measurements using tilt sensor	360°
Tilt sensor	Yes
Tilt sensor accuracy to the laser beam	± 0.2°
Tilt sensor accuracy to the housing	± 0.2°
Units in the tilt sensor	0.0°, 0.00 %
Measuring range with DST 360	
Horizontal	360°
Vertical	-64° to > 90°

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Technical Data Continued

Typical tolerance of the P2P function with DST 360	6.56' = ±0.079", 16.5' = ±0.20", 32.8' = ±0.39"
Leveling range with DST 360	± 5°
Memory for last measurements	20
Free software for Windows	Yes
Free App for iOS and Android	Yes
Smart Room support	Yes
General data interface	Bluetooth® Smart
Data interface for 3D point data with DST 360	Bluetooth® Smart
Tripod thread	1/4"
Batteries	Type AA 2 × 1.5 V
Battery Life	Up to 4,000 measurements / 8h*
Dimensions	5.20 x 2.20 x 1.14"
Weight with batteries	6.49 oz
Features	
Bluetooth keyboard mode	You do not need additional software to transfer measurements directly into excel or word documents
Robust	Passes drop test from 6.6' height due to extreme rubber jacket and fiberglass reinforced housing
Dust right	All parts are connected with special rubber sealing strips – even the battery compartment

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Technical Data Continued

IP65	Dust tight and water jet protected, wash off under running water
Smart sensor	Allows tilt measurements and automatic floor plan generation with DISTO Plan app
Multifunctional XL end piece	For measuring out of corners, from edges and out of nudges. Automatic position detection eliminates mistakes
Simply clever with Bluetooth	Connects to smart phones, i pads, pc's & Apps
Rotatable, 4 line, 2" display	The display automatically rotates in line with the orientation of the device – you can easily read the screen from any angle
Functions	
Measures Distance	Quick, Easy & Accurate
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's function)	Determine area of room for estimating
Volume included room data (HVAC function)	Determine volume of room for estimating

Leica Geosystems

Technical Data Continued

Inclination / level + indirect height	Vertical: Measures the incline angle within 360°. 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
Smart horizontal distance	Ability to measure height with angle and slope distance when base is not reachable
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
Pythagoras 2 & 3-point measurements	Allows distances to be determined when direct measurement is impossible. The distance is automatically calculated from 2 to related measurements
Memory	Last 20 displays
Bluetooth Smart	You do not need additional software to transfer measurements directly into excel or word documents
Functions with DISTO Plan App	
Sketch on Photo	Capture complex shapes (rooms, facades) and export those to CAD

Leica Geosystems

Technical Data Continued

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
Smart Room	Create CAD ready floor plans with a DISTO X3 or X4 simply by taking clockwise or counter-clockwise measurements of a room. Once all measurements are taken, the app's Smart Room function automatically generates the 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.
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.

Leica Geosystems

Technical Data Continued

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
Export jpg, pdf, dxf, dwg	
Organizer	Organize into 4 categories: All, Projects, Sketch on Photo & Plans and export in jpg, pdf and 2D & 3D dwg/dxf format
Applications	
Outdoor measurements	Minimum device required with Pointfinder & camera to identify & document targets
Exterior indirect height tracking	Minimum device required with Pointfinder & camera to identify & document targets
Generate realistic & scaled floor plans	Automatically with the DISTO Plan App
Generate realistic & scaled exterior plans	Minimum device required with DISTO Plan "Smart Room"
Measure over exterior obstacles	Minimum device required with the smart horizontal mode
Measuring inclination/tilt angle	Minimum required device
Point to Point measurements	Minimum required device with DST 360
Measure plan	Minimum required device with DST 360 & DISTO Plan App "Measure Plan"
Measure facade	Minimum required device with DST 360 & DISTO Plan App "Measure Facade"

Leica Geosystems

Technical Data Continued

Measure areas	And adding the individual areas to calculate total area
Measure volume	And adding the individual volumes to calculate total volume
Measure diagonals	With the Min/Max function
Measuring from edges & corners for diagonals	With multifunction end piece
Scope of Delivery	<ul style="list-style-type: none">• DISTO X3• Hand loop• Holster• 2 x AA batteries• Manual / Quickstart• Manufactures Certificate of Accuracy

**Reduced when used with Bluetooth® or Leica DST 360