

Leica Geosystems

X4 Technical Data – US Standard

Range	2" to 492'
Accuracy ±	± 0.04"
Digital Pointfinder	Yes
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: measuring from edges, corners and reveals is no longer an obstacle. Accurate measurements of room diagonals are now possible
Tilt sensor	Yes
Angle measurements using tilt sensor	360°
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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Typical tolerance of the P2P function with DST 360	6.56' = $\pm 0.079''$, 16.5' = $\pm 0.20''$, 32.8' = $\pm 0.39''$
Leveling range with DST 360	$\pm 5^\circ$
Memory for last measurements	20
Timer	Delay a measurement – same as you would with a camera
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 x 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	
Pointfinder digital optics	Target objects in bright sunlight when laser point can't be seen
Bluetooth Smart V4	You do not need additional software to transfer measurements directly into excel or word documents on your smart phone, Laptop or PC
Robust	Passes drop test from 6.6' height due to a solid rubber jacket and fiberglass reinforced housing
Dust right	All parts are connected with special rubber sealing strips – even the battery compartment
IP65	Dust tight and water jet protected, wash off under running water

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Smart sensors	Allows tilt measurements and automatic floor plan generation with DISTO Plan app
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
Pointfinder digital optics	Used to create a reference point for exterior, bright sunlight & long-distance measurements when the laser point is not visible
Min / Max Tracking	Measure continuously to find low/high point for diagonal measurements
Addition & subtraction	Ability to add or subtract as you measure
Area included room data (Painter's Function)	Determine a room's wall surface area by simply taking distance and height measurements. Great for estimating paint & coatings
Volume included room data (HVAC)	Determine volume of room for estimating
Inclination / level + indirect height	Vertical: Measures the incline angle within 360°. Used in 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	Ability to measure distance between points using Pythagoras calculation, 2 point uses one triangle and 3 point uses 2 triangles
Memory	Last 20 displays

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Auto End-piece	The flip-out end piece offers a stable positioning for measurements from edges, reveals and corners. Accurate measurement of room diagonals is now possible with the Min/Max function
Functions with DISTO Plan App & DST360-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
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 Façade	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

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Export jpg, pdf, dxf, dwg	To verify, document and communicate As-Built conditions in the required formats
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 at long distances & in bright light
Exterior indirect height tracking	Minimum device required – determine the height of trees or buildings when the object has no suitable reflective points for the laser
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 – measures
Measuring inclination/tilt angle	Minimum required device – Measure the incline of stairs or roofs
Point to Point (P2P) measurements	Minimum required device with DST 360 – Measure hard to reach points such as roof points from the ground with 2 clicks and no ladders
Measure plan	Minimum device required with DST 360 & DISTO Plan App “Measure Plan” – measure detailed floor plans, elevations, irregular shapes and hard to reach points using P2P measurements
Measure facade	Minimum device required with DST 360 & Disto Plan App “Measure Façade” – measure the façade or a building, doors and windows using P2P measurements
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 diagonals from edges & corners for diagonals	With multifunction end-piece and Min/Max function

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Technical Data Continued

Scope of Delivery	<ul style="list-style-type: none">• DISTO X4• Hand loop• Holster• 2 x AA batteries• Manual / Quickstart• Manufactures Certificate of Accuracy
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**Reduced when used with Bluetooth® or Leica DST 360