

Leica Geosystems

E7500i Technical Data – US Standard

Range	0.2" up to 656'
Accuracy	±0.04"
Measuring units	m, ft, in, decimal, fractions
Smallest unit displayed	0.04"
X-Range Power Technology	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%, mm/m, in/ft
Laser class	2
Laser type	635nm, <1mW
IP class	IP 65
Pointfinder with zoom	4 x
Pointfinder contrast adjustment	Yes
Memory	For last 30 measurements
Display illumination	Yes
Free software for Windows	Yes

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Technical Data Continued

Free DISTO Plan App for iOS and Android	Yes
General data interface	Bluetooth® Smart
Service life of batteries	Up to 10 h**
Multifunctional auto end piece	Yes, automatic. Measuring from edges, corners and reveals is no longer an obstacle. Accurate measurements of room diagonals are now possible
Tripod thread	1/4"
Batteries	Type AAA 2 × 1.5 V
Battery life	Up to 5,000 measurements / 10h
Protection class	IP 65
Dimensions	5.63 × 2.28 × 1.14"
Weight with batteries	6.98 oz
Features	
LCD display for better viewing outdoors, 2.4"	Large LCD display vs Digital display on X3 & X4
Easy to read 4-line, color display	A clear picture and exact view of the measuring target even on long distances
Digital Pointfinder with 4X zoom	Zoom in your target and measure long distances even in bright sunny conditions
Inclination sensor	Measuring angles within 360°, get the direct vertical distance with the press of a button
Trapezium function	Measure the slope distance of a roof without the use of ladders
IP65	Dust tight and water jet protected, wash off under running water
Accuracy of ±0.04"	Precise measurements up to 656'

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Technical Data Continued

Functions	
Pointfinder optics	Clear image of what you are measuring to
Inclination / tilt measurement	Determining the vertical angle of measurement
Smart horizontal distance	Ability to measure horizontal, vertical and slope distances and slope angle when base is not reachable
Height tracking	Ability to track height constantly
Long range mode	656'
Distance measurement	Quick, easy & accurate
Min / Max tracking	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
Permanent measurement	Tracking mode for continuous measurement
Addition / Subtraction	Distances, areas or volumes can be added or subtracted easily
Area & Volume measurements	Determine area of room for estimating
Calculator	
Pythagoras vertical & horizontal measurements	Allows distances to be determined when direct measurement is impossible. The distance is automatically calculated from 2 or 3 measurements
Trapezoid 1& 2 (including 2 nd results)	Remote measurement used to calculate slope distance
Sloped objects	Determine the slope between two points
Save and adjust constants	
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

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Memory	Last 30 displays
Timer	the Timer automatically counts down to zero and then takes the measurement – eliminating hand movement when taking measurements & allowing time to correctly position the device before measuring. 30, 5 & 2 second delay options are available
Bluetooth Smart	V4.0
Functions with DISTO Plan App	
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
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	
Long outdoor distance	Measure long distances to small targets and aim easily with the integral camera and color display
Smart Horizontal distance	Get the exact horizontal distance thru obstructions
Slope of roof	Trapezium Function - 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
Quick measurements of heights	Multiple measurements from one position
Exterior indirect height tracking	Ability to track height constantly. Minimum device required

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Exterior height profile	Minimum device required
Measure surface areas (painter's function)	Determine area of room for estimating
Measure room volumes (HVAC function)	Determine volume of room for estimating
Diagonal edge & corner measurements	Measure consistently to find low/high point
Generate realistic & scaled floor plans	automatically with DISTO Plan
Documentation	with the DISTO Plan App
Scope of Delivery	<ul style="list-style-type: none"> • DISTO E7500i • Hand loop • Holster • 2 x AA Batteries • Quickstart Guide • Manufactures Certificate of Accuracy

*Applies for usage with Leica DST360

**Reduced when used with Bluetooth®, WLAN, or Leica DST360