

Leica DISTO™ X310 Laser Distance Meter

Robust multifunctionality!



The new Leica DISTO™ X310 is the only laser distance meter to be dust-tight and protected against water jets – to IP65. In addition, it passes drop tests of up to 2 m height. Thanks to the integrated tilt sensor, it can take indirect distance and height measurements absolutely precisely.

Leica DISTO™ X310 – guarantees reliable measurements, even under the harshest conditions.

- IP65 water jet protection and dust-tight
- 360° tilt sensor
- Smart Horizontal Mode™
- Height tracking
- Power Range Technology™
- Illuminated 4-line display
- Automatic multifunctional end-piece



Robust housing

The sensitive measuring elements are protected by solid rubber parts. Proven in drop tests from up to 2 m height, the Leica DISTO™ X310 is therefore particularly resistant.



Tilt sensor 360°

Thanks to the combination of distance and tilt measurements, you can determine the horizontal distance absolutely precisely and simply – even past obstructions. With the help of the tilt sensor, you can also determine indirect heights.



Protection class IP65

The housing and keypad are specially sealed against water and dust. Cleaning under running water is also no problem.



Smart Horizontal Mode™

If obstructions prevent you from taking direct distance measurements, you can use the Smart Horizontal Mode™ to determine the horizontal distance simply and absolutely precisely.

Technical Specifications

Typical measuring accuracy	± 1 mm
Range	up to 80 m
Measuring units	0.000 m, 0.0000 m, 0.00 m
Power Range Technology™	Yes
Distance in m	10, 50, 100 m
Ø of the laser dot in mm	6, 30, 60 mm
Protection class	IP65 – water jet protection and dust-tight
Measurements per set of batteries	up to 5000
Batteries	type AAA 2 × 1,5 V
Dimensions	122 × 55 × 31 mm
Weight with batteries	155 g



Shipping List

Leica DISTO™ X310, Holster, Hand Loop, Batteries, User Manual, Producer Certificate



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Which instrument is the right one for me?



Technical Data	D1	D110	D2	X310	D410	D510	D810 touch	S910
Distance measurement	40m	60m	100m	120m	150m	200m	200m	300m
Minimum/maximum measurements	-	-	Y	Y	Y	Y	Y	Y
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

	D1	D110	D2	X310
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

	D410	D510	D810 touch	S910
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

