

Laser distance meters at a glance.



METRON 20

VECTOR 50

METRON 30 BT

METRON 60 BT

METRON 80 BTC

Technical Data

Usage area*	0.05 - 20 m	0.15 - 50 m	0.05 - 30 m	0.05 - 60 m	0.05 - 80 m
Max. measuring tolerance**	±2.0 mm	±1.50 mm	±2.0 mm	±1.5 mm	±1.5 mm
Units of measure	m	m	m, in, in+ft, ft	m, in, in+ft, ft	m, in, in+ft, ft
Laser class	2	2	2	2	2
Laser type	635 nm < 1 mW	650 nm < 1 mW	630–670 nm < 1 mW	635 nm < 1 mW	630–670 nm < 1 mW
Protection class	IP42	IP42	IP54	IP54	IP65
Automatic power off, laser	20 s	45 s	45 s	45 s	45 s
Automatic power off, device	150 s	180 s	180 s	180 s	180 s
Operating time***	< 5000 measurements	< 5000 measurements	< 5000 measurements	< 5000 measurements	< 5000 measurements
Battery type	2x 1.5 V (AAA) batteries	2x 1.5 V (AAA) batteries	2x 1.5 V (AAA) batteries	3.7 V 850 mAh Li-ion	3x 1.2 V Ni-Mh rechargeable batteries
Operating temperature	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C
Storage temperature	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C	-20 °C to 60 °C
Dimensions (H x W x D)	105 x 47 x 27 mm	105 x 47 x 27 mm	105 x 47 x 27 mm	119 x 46 x 28 mm	115 x 49 x 26 mm
Weight with batteries	103 g	85 g	100 g	100 g	150 g
Tripod adapter	–	–	–	1/4"	1/4"
Pointfinder camera	–	–	–	–	2x and 4x zoom
Measuring functions	4	7	6	9	16

* Depending on conditions at work site.

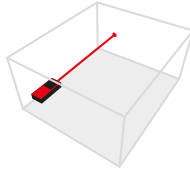
** Accurate up to 10 m. The maximum tolerance of 0.1 mm/m may deteriorate at distances between 10 m and the max. specified measuring range.

*** Use at room temperature.

A detailed look at the measuring functions.

Length measurement

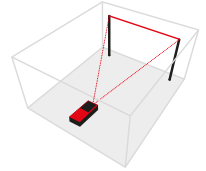
Determination of a simple distance from the set measuring edge of the laser distance finder.



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Indirect distance measurement

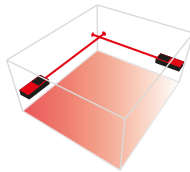
Determination of an indirect distance without reaching the stop points. In this case, two length measurements are taken from one position to the respective measuring points.



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Area measurement

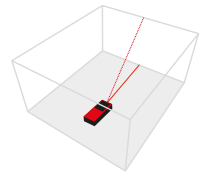
Automatic calculation of an area by measuring the length and width.



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Automatic distance measurement

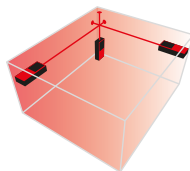
By means of length measurement, a point in the height is targeted; the corresponding height and distance are automatically calculated using the tilt sensor.



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Volume measurement

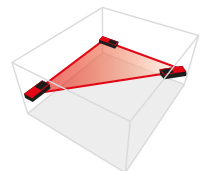
Calculation of a volume by measuring the length, width, and height.



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Triangular area measurement

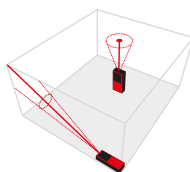
Calculation of a triangular area by measuring the lengths of the sides.



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Min./max. measurement

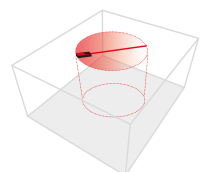
Determination of a minimum or maximum distance by measuring the shortest distance between two points or the longest distance, e.g., for diagonal measurement.



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Circular area measurement

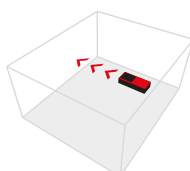
Calculation of the circular area by measuring the diameter.



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Continuous measurement

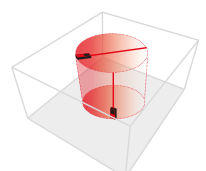
Quick determination of a desired target distance with continuous measurement.



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Cylinder volume measurement

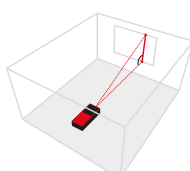
Calculation of a cylinder volume by first measuring the diameter of the circular area and then the height of the cylinder.



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Indirect 2-point measurement

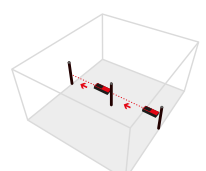
Determination of an inaccessible distance using two length measurements. One of these measurements is taken at a 90° angle.



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Stake out measurement

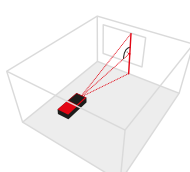
A certain distance is set in the measuring device. The device displays the current distance and starts to beep as you approach the set distance.



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Indirect 3-point measurement

Determination of an inaccessible distance using three length measurements. One of these measurements is taken at a 90° angle.



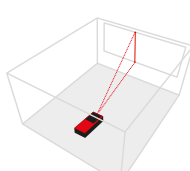
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Addition/subtraction

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Indirect measurement via angle

Measuring an indirect, inaccessible height by means of two length measurements. Thanks to the automatic electronic tilt sensor, there is no need for an additional 90° angle measurement.



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Measurement memory

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