

Laser distance meters at a glance



METRON 20

METRON 30 BT

METRON 60 BTI

METRON 120 BTC

Technical data

Measuring range*	0.05 to 20 m	0.05 to 30 m	0.05 to 60 m	0.05 to 120 m
Measuring tolerance**	±2.0 mm	±2.0 mm	±1.5 mm	±1.5 mm
Units of measurement	m	m, in, ft, ft/in	m, in, ft, ft/in	mm, m, in, ft, ft/in
Laser class	2	2	2	2
Laser type	635 nm < 1 mW	630–670 nm < 1 mW	635 nm < 1 mW	630–670 nm < 1 mW
Protection class	IP42	IP54	IP54	IP65
Automatic power off, laser	20 s	45 s	45 s	30 s
Automatic power off, device	150 s	180 s	180 s	180 s
Operating time***	< 5,000 measurements	< 5,000 measurements	< 5,000 measurements	< 5,000 measurements
Battery type	2 × 1.5 V (AAA) batteries	2 × 1.5 V (AAA) batteries	3.7 V 850 mAh Li-ion	3 × 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
Storage temperature	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Dimensions (H × W × D)	105 × 47 × 27 mm	105 × 47 × 27 mm	119 × 46 × 28 mm	130 × 54 × 28 mm
Weight with batteries	103 g	100 g	100 g	190 g
Tripod adapter	-	-	1/4"	1/4"
Tilt sensor	-	-	yes	yes
Pointfinder camera	-	-	-	2x and 4x zoom
Measurement memory	-	-	1–30	1–1000
Measuring functions	4	6	10	17

* Depending on conditions at work site.

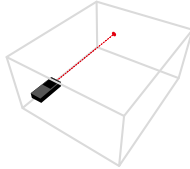
** Measuring tolerance up to 10 m. The maximum tolerance of 0.1 mm/m may deteriorate at distances between 10 m and the max. specified application range.

*** Use at room temperature.

Measuring functions

Length measurement

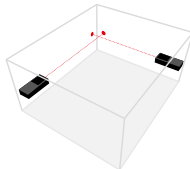
Determination of a simple distance from the set measuring edge of the laser distance meter.



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Area measurement

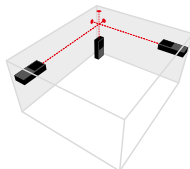
Automatic calculation of an area by measuring the length and width.



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Painter function

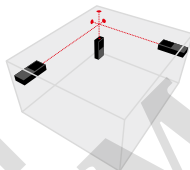
Automatic calculation of the total wall area of a room by adding the wall lengths and then multiplying them by the room height.



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Volume measurement

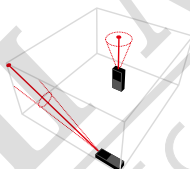
Calculation of a volume by measuring the length, width, and height.



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Min./max. measurement

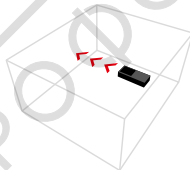
Determination of a minimum or maximum distance by measuring the shortest distance between two points or the longest distance, e.g., for diagonal measurement.



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Continuous measurement

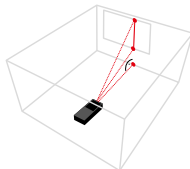
Quick determination of a desired target distance with continuous measurement.



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Indirect 3-point measurement (1)

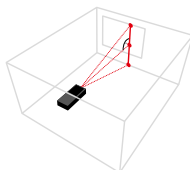
Determination of an inaccessible partial distance using three length measurements. One of these measurements is taken at a 90° angle.



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Indirect 3-point measurement (2)

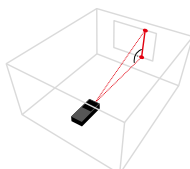
Determination of an inaccessible distance using three length measurements. One of these measurements is taken at a 90° angle.



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Indirect 2-point measurement

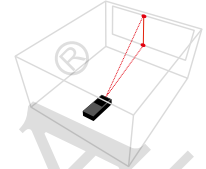
Determination of an inaccessible distance using two length measurements. One of these measurements is taken at a 90° angle.



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Indirect measurement via angle

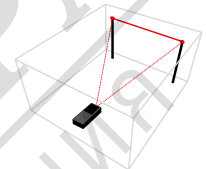
Measuring an indirect, inaccessible height by means of two length measurements. Thanks to the automatic electronic tilt sensor, there is no need for an additional 90° angle measurement.



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Indirect distance measurement

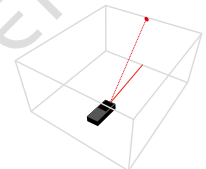
Determination of an indirect distance without reaching the stop points. In this case, two length measurements are taken from one position to the respective measuring points.



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Automatic distance measurement

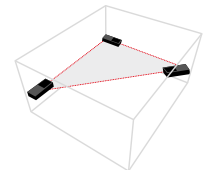
By means of length measurement, a point in the height is targeted; the corresponding height and distance are automatically calculated using the tilt sensor.



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Triangular area measurement

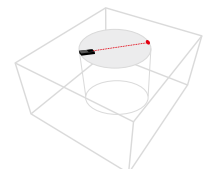
Calculation of a triangular area by measuring the lengths of the sides.



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Circular area measurement

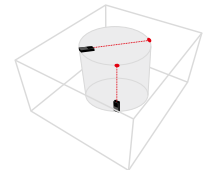
Calculation of the circular area by measuring the diameter.



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Cylinder volume measurement

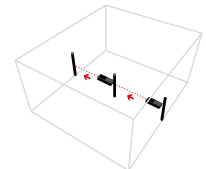
Calculation of a cylinder volume by first measuring the diameter of the circular area and then the height of the cylinder.



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Stake out function

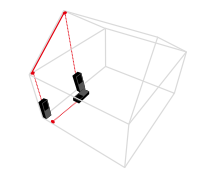
A certain distance is set in the measuring device. The device displays the current distance and starts to beep as you approach the set distance.



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3-point trapezoidal measurement

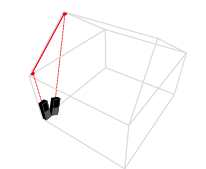
Determination of an inclined, inaccessible distance by measuring two heights and the base line of the trapezoidal area.



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2-point trapezoidal measurement

Determination of an inclined, inaccessible distance by measuring the height and the diagonal of the trapezoidal area.



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