

3D DISTO SPECS

13 Technical Data

Accuracy tie distance (3D)		@ 10 m	@ 30 m	@ 50 m
	Combination of angle and distance measurement	ca. 1 mm	ca. 2 mm	ca. 4 mm

Angle measurement (Hz/V)	Working range:	Horizontal 360°, Vertical 250°
	Accuracy:	5" (1.2 mm @ 50 m)

Characteristics laser distance metre	Measuring system:	System analyser basis 100 MHz - 150 MHz
	Type:	Coaxial, visible red laser
	Working range:	0.5 - 50 m
	Laser class:	2
	Laser type:	650 nm; < 1 mW
	Laser point size (at distances):	@ 10 m: ~7 mm x 7 mm @ 30 m: ~9 mm x 15 mm

Tilt sensor	Self-levelling range:	± 3°
	Accuracy:	10" (2.5 mm @ 50 m)

Viewfinder	Zoom (Magnification):	1x, 2x, 4x, 8x
	Field of view (@ 10 m):	1x: 3.40 m x 2.14 m
		2x: 1.70 m x 1.07 m
		4x: 0.85 m x 0.54 m
		8x: 0.42 m x 0.27 m

Circular bubble sensitivity	1°/mm
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Operation	Type	Description
	Display	High-resolution screen, 800 x 480 Pixel, 4.8" TFT LCD, 16 mil colour
	Buttons/User interface	3D Disto: ON/OFF button Control Unit: Touchscreen, ON/OFF button
	Memory capacity	Flash memory: 32 GB
	Ports	3D Disto: USB Type B, power supply plug-in, power supply plug-in for Control Unit Control Unit: USB Type A, Micro-B, power supply plug-in

Communication	Type	Description
	Data transfer	USB: Type Micro-B and Type A, WLAN
	Wireless technology	SD Card, range 50 m (depending on the environment), 11 channels
	Supported data formats	Import: DXF, CSV Export: DXF, TXT, CSV, JPG

Power	Instrument	Type	Typical operating time
	3D Disto	Li-Ion battery, voltage: 14.4 V 63 Wh, charging time 8 h External power supply voltage: 24 VDC, 2.5 A	8 h
	Control Unit	Li-Ion battery, 2500 mAh, 3.7 V External power supply voltage: 5 VDC, 2.0 A, charging time 7 h	6 h

Mounting	5/8" thread
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Instrument dimensions 3D Disto: 186.6 x 215.5 mm (diameter x height)
Control Unit: 178.5 x 120 x 25.8 mm

Weight 3D Disto: 2.8 kg
Control Unit: 0.33 kg

Environmental specifications **Temperature**

Type	Operating temperature [°C]	Storage temperature [°C]
3D Disto	-10 to +50	-25 to +70
Control Unit	-10 to +50	-25 to +70

Protection against dust, sand and water

Type	Protection
3D Disto	IP54 (IEC 60529)
Control Unit	IP5X

Humidity

Type	Protection
3D Disto	Max. 85 % r.h non condensing
Control Unit	Max. 85 % r.h non condensing

RM100 Remote Control Range: 25 m (depending on environment and operation conditions)
Communication: Infrared (IR)
Battery 1 AA, 1.5 V
