

## 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:  $\pm 3^\circ$   
 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

**Operation**

Type	Description
Display	High-resolution screen, 800 x 480 Pixel, 4.8" TFT LCD, 16 mil colour
Buttons/User interface	<b>3D Disto:</b> ON/OFF button <b>Control Unit:</b> Touchscreen, ON/OFF button
Memory capacity	<b>Flash memory:</b> 1 GB
Ports	<b>3D Disto:</b> USB Type B, power supply plug-in, power supply plug-in for Control Unit <b>Control Unit:</b> 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

**Instrument dimensions**

3D Disto: 186.6 x 215.5 mm (diameter x height)  
Control Unit: 178.5 x 120 x 25.8 mm

**Weight**


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3D Disto:	2.8 kg
Control Unit:	0.33 kg

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**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

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### **RM100 Remote Control**

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

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