

# Technical specifications

## At a glance

<b>Features of goniometer (Hz/V)</b>	Range of measurement	Horizontal 360°; vertical 250°		
	Accuracy	5", equates to 1.2 mm @ 50 m		
<b>Features of laser distance meter</b>	Type	Coaxial, visible red laser		
	Range of measurement	0.5–50 m		
	Laser class	2		
	Laser type	650 nm; < 1 mW		
	∅ laser dot (at distance)	10 m:	~7 mm × 7 mm	
	30 m:	~9 mm × 15 mm		
<b>Tie distance accuracy (3D)</b>	Combination of angle and distance	@ 10 m	@ 30 m	@ 50 m
		Approx. 1 mm	2 mm	4 mm
<b>Tilt sensor</b>	Self-levelling range	± 3°		
	Accuracy	10", equates to 2.5 mm @ 50 m		
<b>Digital pointfinder</b>	Zoom (magnification)	1x, 2x, 4x, 8x		
	Field of view (@ 10 m)	1x:	3.40 m × 2.14 m	
		2x:	1.70 m × 1.07 m	
		4x:	0.85 m × 0.54 m	
		8x:	0.42 m × 0.27 m	
<b>Circular level setting accuracy*</b>		1°/mm		
<b>Operation</b>	Screen	High-resolution screen, 800×480 pixels, 4.8" TFT LCD, 16 million colors		
	Keys/user interface	3D Disto: 1 On/Off button Hand-held unit : touch screen, 1 On/Off button		
	Memory	Flash memory 32 GB		
	Interfaces	3D Disto: USB type B, power supply power pack, power supply to hand-held unit Hand-held unit: USB type A, power supply power pack		
<b>Communication</b>	Cable	USB: Micro-B USB and type A, WLAN		
	Wireless	SD card, range: 50 m (depending on environment)		
	Data format	Import DXF; export DXF, TXT, CSV, JPG		
<b>Power supply</b>	Type	3D Disto: Li-Ion battery, voltage: 14.4 V/63 Wh, external power supply: 24VDC/2.5A, charging time 8 h Hand-held unit: Li-Ion battery, 2500 mAh, 3.7V, external power supply: 5 VDC/2.0A, charging time 7 h		
	Operating time	3D Disto:	8 h	
		Hand-held unit:	6 h	
<b>Attachment</b>		5/8" thread		
<b>Dimensions (W×H×D)</b>		3D Disto:	∅ 186.6 × 215.5 mm	
		Hand-held unit:	178.5 × 120 × 25.8 mm	
<b>Weight</b>		3D Disto:	2.8 kg	
		Hand-held unit:	0.33 kg	
<b>Environmental conditions</b>	Operating temperature range	3D Disto:	-10 to 50 °C	
		Hand-held unit:	-10 to 50 °C	
	Storage temperature	3D Disto:	-25 to 70 °C	
		Hand-held unit:	-25 to 70 °C	
	Water and dust protection	3D Disto:	IP54 (IEC 60529)	
		Hand-held unit:	IP5x	
	Moisture	Max. 85%, non-condensing		
<b>Remote control (IR)</b>	Range	50 m (depending on environment)		
	Communication	Infrared (IR)		
	Battery	1 AA, 1.5 V		

\*Accuracy is specified at 20 °C.



Laser class 2  
in accordance with IEC 60825-1

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